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ABSTRACT

This report on Kansas schools identifies educational facilities funding as being a difficult issue for public school districts for many years. Recent problems have surfaced as communities seek to construct and maintain buildings in an era of escalating needs. Those needs have frequently been related to expanding curricular innovations, new mandates, and the passage of time, which has taken its toll on buildings. The combination of events has produced a sizeable problem deserving great attention. The increased demand for resources to address increasing facility needs usually has been placed squarely on the local property tax. As school taxes have increased for instructional and other educational needs, there has often been little opportunity to devote scarce resources to facility needs. In consequence, a deficit has developed, in which facilities have received lower emphasis, while instructional priorities logically demanded the bulk of limited finances. In Volume 1 of this document, a case is made for increased attention to facilities and it is suggested that courts have shown preliminary interest in such facility concerns. It is further argued that state finance reform is an important issue and that school leaders and policymakers should increase efforts to find new and innovative solutions. Volume 2 contains technical appendices that present the statistical evidence on which the conclusions reached in the first volume are drawn. The data were gathered primarily for Kansas school districts that wish to compare their relative positions to other districts in the state. (TES)

Achievement of Equity In Capital Outlay Funding For Kansas Schools: A Policy Critique

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CONTENTS

CAPITAL OUTLAY AND THE PUBLIC SCHOOL: ISSUES OF ADEQUACY AND EQUITY

Educational costs have risen dramatically over the last forty years. Estimates for future resource needs project a relentless upward spiral far into the twenty-first century, and concern about funding schools leads an array of issues threatening the longterm health of education Solutions may be elusive and distant unless policy makers and school leaders can act quickly to reverse the widespread pessimism and frustration that have accompanied seemingly insatiable demands for increased resources. The complexity of fiscal issues facing schools demands that aggressive solutions must be sought if education and national economic productivity are to continue to flourish.

Financing Rural and Urban Schools

Increased awareness of fiscal dilemmas among the nation's schools has also heightened recognition of problems experienced by rural and urban school districts. Rural and urban issues appear to be growing, and the emphasis has encouraged educators and policy makers toward more detailed analyses of fiscal adequacy and equity within individual states. Adequacy and equity have become expansive concepts, and the increasing concern over differing fiscal needs among rural and urban schools has introduced uncertainty into an already tenuous balance. Because the issues are so complex, some researchers have suggested that disagreements about adequacy and equity can no longer be fully addressed by state-level and traditional interdistrict macro-perspectives.[1] A natural consequence of increased scrutiny appears to be reflected in current dialogue about rural and urban adequacy and fiscal equity concerns.

Genuinely perplexing problems exist in financing rural and urban schools. Urban school needs are well documented,[2] and the plight of distressed cities is worsening. Urban

centers are frequently suffering from enormous tax base erosion, accompanied by soaring costs for education as disadvantaged populations increase. The ability of the nation's major cities to maintain educational services has been weakened in many instances, and the effect of fiscal exigency has been felt by cities of all sizes as school districts have increasingly been placed in competition for tax revenues with other governmental units. The result has been a call for increased awareness and priority for urban schools, accompanied by an increase in litigation addressing urban plight on constitutional grounds of adequacy and equity.

Issues confronting rural school finance are equally complex. Rural school systems are increasingly showing signs of distress and occasionally number among the poorest school districts in the nation. Rural school districts cover vast areas of the nation, encompassing large amounts of uninhabited land typically supported by agriculture or other depressed industries. Rural systems are increasingly plagued by narrow and eroding tax bases, burdensome educational reform costs, and changing demographics which have resulted in decreased political influence and higher costs distributed among fewer constituents. In a nation which has consolidated over 125,000 school systems to less than 16,000 in less than ninety years,[3] the problem of financing rural schools from a diminishing and economically depressed resource and population base challenges immediate and effective solutions. While growing needs of larger school districts have forced attention to urban distress, the problems experienced by rural schools have also led to increased awareness of rural fiscal exigencies. Like urban schools, there has been an increase in litigation focusing on unequal opportunity among rural school systems.

States are facing new legal challenges resulting from how declining resources are distributed. School finance litigation has increased dramatically in the last two years,[4] and the propensity toward litigation has been accelerated by fiscal dilemmas. Rural and urban districts are among the challenges which claim that adequacy and equity are violated

by state formulas which fail to effectively address needs. Expansion of equity to include rural and urban distinctions, increased advocacy of rural or urban issues, and a frequent inclination to seek solutions through the courts suggest that lawmakers and school leaders are vital stakeholders in the eventual solution to current fiscal problems. As states face an uncertain future with few hopes for a major fiscal windfall, those problems will likely be addressed in legal and policy arenas.

Facilities: An Urban and Rural Issue

The impact of limited resources pervades all aspects of schools. One part of increased awareness of rural and urban fiscal problems has focused on the ability of school districts to provide educational facilities. Facilities represent a particularly difficult problem for districts because of their extraordinarily high cost in relation to other educational expenditures and because state assistance is often absent or limited.

The literature repeatedly emphasizes district facility needs. Emerging evidence suggests that concepts of adequacy and equity may be argued to apply to facilities. There is a growing concern that equality of educational opportunity is affected by all aspects of the educational enterprise, and that the state may have a responsibility to assist local communities in financing facilities. A quietly growing series of court comments on funding facility needs and a rapidly increasing body of research examining equity in facility finance suggest that how capital outlay is financed should be of vital concern to the states.

Concern about adequacy and equity in financing facilities and the growing importance of rural and urban issues have led to this monograph which examines facility finance from the perspective of adequacy and equity. It examines facility funding within the context of actual practice, estimated need, and potential state legal responsibility for viewing facilities as an issue of equal opportunity. This research develops an historical overview

of facility finance, traces the development of capital outlay as an issue of equitable concern, and tests adequacy and equity in actual facility funding practices in the state of Kansas. By operationalizing adequacy and equity within the facility context and by comparing rural and urban communities on a wide scope of measures, the size of the problem and legal potential of the issue may be evaluated, and policy makers may gain a useful perspective of a difficult and costly legal question.

Examining adequacy and equity in financing capital outlay raises serious questions which must be answered. Why is there concern about financing facilities? How do adequacy and equity apply? Are there significant legal issues which may affect facility finance in the future? How are other states addressing problems associated with funding facilities? Are there substantive differences between rural and urban school districts? What are the dimensions of the problem in a selected state? How adequate is current funding? How does current practice compare to facility finance needs? If common models for funding facilities in other states were implemented, what would be the rank order of resource equity achievement? What would be the estimated costs to the state of each alternative funding model examined? And finally, how could the analysis of adequacy and equity be applied to other states?

The questions pose difficult issues for which the answers are not clearly evident. Like most issues in education, the question of how to provide school buildings for children is complex, and the high cost of physical structures has been a significant deterrent to rapid progress in achieving adequate and equitable funding. But given the need to exhibit concern for all aspects of the educational enterprise and potential legal questions surrounding facility equity, answers to these important concerns appear to be vital to guiding effective and equitable policy development in the various states.

Trends in State Assistance

Sophisticated formulas have been developed for state-level assistance in funding operating budgets, special education programs, transportation, and other school services. In sharp contrast, funding methods for capital outlay, specifically facilities, have generally been neglected in many states. Construction funding has especially been a low priority. A major cause has been reluctance to depart from a long tradition dating from an era when a smaller percentage of children attended school and building costs and programs were simpler. School buildings were such local possessions that they were often raised by hand with volunteer labor and donated materials and land. Obsolescence of facilities was nearly nonexistent, and demands of a largely rural nation on local tax bases for competing governmental services were minimal.

The turn of this century, however, marked the end of internal sufficiency and cloistered protection from the larger society. Bonding for facility construction became a necessity as school districts experienced rapid growth. Movement of the nation from an agricultural base to an industrial economy where cities and school populations rapidly expanded forced significant facility needs. Issues of tax base adequacy emerged, and assessed valuation of property and location of power plants, oil and gas facilities, railroads and other industries became critical to funding the local community's educational program.[5]

But despite growing needs of school districts for larger revenues and expanded tax bases, financing facilities followed tradition in many states. School districts were forced to levy taxes for school building needs against local property wealth which was often too low to generate adequate revenue. Unlike emerging foundation and equalization formulas for general school aid, facility financing was dependent solely on local property wealth. That dependency was frequently exacerbated by statutory debt limitations, mill rate caps, and local referenda. As a consequence, while other areas of school funding changed

dramatically, financing facility repair, maintenance, renovation, and construction remained a low priority, shrouded in a tradition which saw education to be a local responsibility.

Although spiraling instructional expenses and resistance to state involvement resulted in overall low priority for improving facility finance structures, a number of states experimented with financial support as a consequence of special initiatives[6] and significant national events. School building needs increased after World War I, but were not met because of severe economic depression. These needs dramatically increased after World War II, and states were encouraged and sometimes forced to examine local insufficiency to provide for educational facilities. Devastating economic events in the first half of the century had nearly halted facility construction, and the result was a severe backlog of building needs which had to be addressed. Increasing costs of education, demands for new curricular programs, and postwar mobility had absorbed nearly all available revenue, leading to at least minimal state involvement because of the need for enhanced revenue sources. State governments were additionally encouraged to become involved in facility finance as an inducement to overcome resistance to widespread unification of school districts in the 1960s. As a consequence of national stress and rapidly increasing needs, several states began to assist local districts with funding facility needs.[7]

Table 1.1 indicates that a small majority of states have effectively recognized the problems school districts experience in funding facilities. Although the extent of state assistance varies considerably, 28 states provide true grant-in-aid programs, and 22 states do not effectively assist local districts. Those states which aid facilities do so within a wide variety of participation schemes, resulting in substantial variations in levels of actual support. Although most states have recognized facility funding problems by providing state loans or allowing access to creative financing techniques, only the 28 true-aid states represent those that have created state aid mechanisms which actually

Table 1.1

METHODS OF STATE PARTICIPATION

1988

True Grant-in-Aid		No Aid
Alaska	Montana	Alabama
Arizona	North Carolina	Arkansas
California	North Dakota	Colorado
Connecticut	New Hampshire	Idaho
Delaware	New Jersey	Indiana
Florida	New Mexico	Iowa
Georgia	New York	Kansas
Hawaii	Pennsylvania	Louisiana
Illinois	Rhode Island	Michigan
Kentucky	South Carolina	Minnesota
Maine	Utah	Missouri
Maryland	Vermont	Nebraska
Massachussetts	Washington	Nevada
Mississippi	Wyoming	Ohio
		Oklahoma
		Oregon
		South Dakota
		Tennessee
		Texas
		Virginia
		West Virginia
		Wisconsin

Source: Thompson, David C; Camp, William E; Horn, Jerry G; and Stewart, G. Kent. State Involvement in Capital Outlay Financing: Policy Options for the Future. Center for Extended Services, March 1988.

reduce reliance on local property wealth for facilities. When states providing loans or allowing bond authorities and bond banks are included, the number which assist facility funding increases to 45 of the 50 states.[8]

Features of basic assistance plans utilized by states are varied and unique. Despite the variance associated with adaptations, the basic plans provide a description of how states have assisted local districts with facility needs:

Full state support. Full state funding implies major state assumption of the local building program. Under this concept, the state accepts major responsibility for education. In practice, states are more likely to employ a modified full state funding concept. Advantages to full state funding include the support of the wealth of the entire state by providing the broadest tax base and access to resources within a state. Full state funding adheres to principles of wealth neutrality which govern modern school finance. Disadvantages associated with full state funding have included higher than anticipated costs, concerns regarding local control of education, and fears about declining local initiative.[9]

Equalization grants. Equalization plans resemble equalization formulas found in general fund financing. These grants to local districts are often established on some method by which aid increases as ability to pay declines. If power equalization principles are observed, the unique feature is that a district may choose to increase its contribution and qualify for corresponding state participation. Equalization grants may be part of the general funding formula or operate independently, but the critical element is the cost-share based on ability to pay. The greatest advantages to equalization aid for facilities are found in its consistency with wealth neutrality where districts are aided in inverse proportion to ability to pay and its relative preservation of local control. If a genuine attempt to create a power-equalization formula is made, however, a major weakness has been fears regarding the ability of

the state to optimally fund identified needs. In practice, power-equalized schemes have often resulted in a less than optimum aid ratio. A related disadvantage is seen in that districts which are in greatest need may not be able to afford the local contributions required to receive higher aid monies associated with open-end local choice.

Percentage-matching grants. Percentage matching plans are a more secure variant of power equalization grants. A method by which open-end or power equalized funding can be capped, percentage-matching grants may provide funds to districts on the same cost-share basis, but with a fixed level of state participation. Depending on the structure of the scheme, some flexibility may allow districts to qualify for incentive aid in return for increased local effort. Percentage-matching plans are subject to most of the same criticisms as power equalization. There is an added disadvantage that while power equalization formulas may cap themselves because of local decisions not to increase taxes to qualify for additional aid, overtly capping expenditure levels in percentage-matching plans acts to further reduce free local choice.

Flat grants. Flat grant provisions have been utilized by states to offer districts a set amount of money which is legislatively determined on some distribution basis. The result is that while aid is not necessarily related to need, the district's cost is nonetheless reduced by the equivalent amount, and the district is free to relieve tax effort or to supplement facility choices. The advantage is that districts receive at least some funds where none previously existed, and local wealth dependency is reduced. While primary dependence on flat grants in general aid schemes has declined, utilization of the flat grant for aiding facility needs has continued. The major disadvantage is the missing relationship between ability to pay and aid received. Flat grants have also

been criticized because districts not needing assistance are often eligible to receive grants. Under those conditions, relative equity achievement is unaided because wealth disparities are at least preserved and frequently increased.

State loans. Loan programs represent a frequent method by which states have provided funds to school districts, often with favorable interest rates and strong security ratings for investors. A major feature of loans is repayment by the local district to the state, generally with interest costs. Advantages are similar to grants in that money becomes available to districts through state channels, and favorable treatment on loan terms and interest rates may reduce repayment costs. In some instances, loans may be forgiven if the district is unable to repay. The primary disadvantage, however, lies in the detrimental relationship of wealth and ability to pay, and districts in the greatest need may be least able to afford the added expense of borrowed money.

State or local authorities. Building authorities are among the mechanisms existing in some states to allow for utilization of private capital to construct and lease or lease-purchase school buildings. Building authorities provide local construction funds without major concern for debt limitations. Percent of assessed values and availability of limited state revenues are not considerations because they are often not subject to normal requirements found in traditional bonding. Because they are intended to be profitable for investors, they frequently attract large sums of readily available capital. The major advantages of building authorities lie in the ability to tap resources unrestricted by a low tax base, and the process of building schools may be shortened significantly. Opponents, however, cite avoidance of voter referenda and the potentially higher net cost associated with for-profit enterprises. Opponents see grave consequences which they believe to be inimical to democratic principles and local control.[10]

Examination of Table 1.1 and description of various finance methods used by states indicate that despite reluctance to assume a significant role in financing facilities, a majority of states currently provides some amount of true aid to funding facilities. The additional 17 states providing statutory recognition or loans bring the total number of states involved in facility finance to nearly 90 percent, with only two states failing to recognize facility finance.[11] But despite the near unanimity of states which recognize the importance of financing facilities in some form, limitations on available revenue frequently prevent meaningful assistance. The net result is that 22 states do not offer aid for facilities sufficient to reduce local wealth dependency, and the actual equalizing effect and genuine impact in the 28 true grant-in-aid states is not widely known.

The data indicate that states have recognized the importance of funding facilities, but the lack of genuinely meaningful assistance in 22 states raises widespread questions of adequacy and equity in an era when legal challenges to general finance mechanisms are increasing. Those questions become particularly relevant because challenges have frequently cited concerns about facilities, and notice within the context of rural and urban settings is currently increasing. Rural and urban school districts are facing major difficulties in funding facility needs, and those states which provide no meaningful assistance to capital outlay may face claims of unequal educational opportunity relating to facilities. Given those conditions, evaluation of the question of legal responsibility for state participation in school building costs, assessment of current practice, and comparison to actual needs should be a present concern for educational leaders and policymakers.

FOOTNOTES

1. William E. Camp and David C. Thompson. "The Impact on Public Education of School Finance Reform and Finance Reform Initiatives." Journal of Education Finance, v14, n1, Summer 1988.

2. For example, see a scathing report by the Community Service Society of New York, Promoting Poverty: The Shift of Resources Away from Low-Income New York City School Districts. Department of Research, Policy, and Program Development, 1987. Other widespread evidence of urban difficulties exist, such as San Francisco's attempt to pass a $90 million bond issue which would serve merely to restore broken glass, provide paint for walls, and other general upkeep items in the district. Similarly, the problems in the Kansas City school district over the costs of desegregation, diminishing tax base, and urban plight demonstrate problems faced by large city districts.

3. McREL. "Policy Notes," v2 n3, Spring 1987.

4. Ibid., William E. Camp and David C. Thompson. "The Impact on Public Education of School Finance Reform and Finance Reform Initiatives." Journal of Education Finance, v14, n1, Summer 1988.

5. R. Salmon and J. B. Thomas. "Financing Public School Facilities in the 80s." Journal of Education Finance, v7, n1, Summer 1981.

6. For example, Alabama instituted funding for rural school buildings in 1901. Two years later, Delaware aided the building of facilities for black, and in 1909, South Carolina instituted a similar program. Also in 1909, North Carolina and Virginia began offering state loans. for assisting local districts with the cost of school facilities.

7. David C. Thompson, William E. Camp, Jerry G. Horn, and G. Kent Stewart. State Involvement in Capital Outlay Financing: Policy Options for the Future. Kansas State University Center for Extended Services, March 1988.

8. Ibid.

9. John A. Thompson. "Funding and Spending in Paradise: Notes on the Hawaii Model of School Finance." Journal of Education Finance, v12, n3, Fall 1986.

10. For example, a South Carolina court has allowed local school districts to build schools through a lease-purchase option. Prior to the ruling, South Carolina had been one of the few states that did not permit school districts to finance major renovation projects through lease-purchase. Those who opposed the ruling argued that it allowed districts to circumvent the state constitution which requires districts to seek permission from voters to acquire debt beyond statutory limits. In the wake of the ruling, the South Carolina School Boards Association announced plans to sponsor a $30-40 million lease-purchase plan to construct schools in several districts.

11. States failing to provide statutory authorization or not mentioning facility methods are Arkansas and Wisconsin.

CHAPTER 2

LEGAL RESPONSIBILITY FOR STATE INVOLVEMENT: EMERGING TRENDS

The Concept of Finance Equity

Although achievement of equity has been the governing premise for court decisions in school finance reform over the last twenty years, equity is a concept which continues to elude absolute definition. As difficult as it has been to define adequacy, equity has been even more difficult to capture. As Rossmiller[12] points out, equity has been variously argued with striking differences in outcomes, and Berne and Stiefel[13] have similarly argued that equity is subject to a selected frame of reference. The result appears to be that the definition of equity is incomplete, and the cogent observation by Alexander that "what is equitable depends to a great extent on the orientation of both the dispensers and receivers of equity"[14] continues to confound immediate accord on the nature and extent of equity.

While unqualified definition remains arguable, certain conditions appear to be elemental to achievement of equity. Berne and Stiefel[15] suggest that equity may be conceptualized on horizontal, vertical, and equal opportunity dimensions and that these principles may be considered relative to pupils and taxpayers as the objects of equity. These broad categories are useful in framing an evaluation which seeks to capture the essence of court struggles as they may apply to facilities. Because adequacy is a precursor of genuine substantive effect of equity, the starting point in defining equity ultimately comes to be based in measuring horizontal wealth neutrality for both pupils and taxpayers while checking for revenue sufficiency. In narrowing the focus of equity to facilities, it would then seem useful to define equity in terms of three dimensions: pupil access, wealth relatedness, and taxpayer effort within the concept of adequate resources.

The first dimension thus seeks equity achievement through resource accessibility, arguing that students within a state should have equal access to resources appropriate to their needs. A primary effort to equalize expenditure levels for pupil equity, resource accessibility would seek to adjust unacceptable restrictions to educational opportunity which are related to variations in resource inputs by infusion of state aid into relatively poorer school districts.

The second dimension of wealth relatedness focuses on residence-related variations in resource accessibility. Often referred to as ex post fiscal neutrality, this dimension of equity would seek to ensure that variations in per pupil revenue are not unduly limited by local wealth; rather, variations would instead be related to local preference and determined under conditions of free choice. Thus, ex post fiscal neutrality is effectively a second pupil equity standard exhibiting an equal educational opportunity concern across a state. The objective of ex post fiscal neutrality has been a major impetus behind the last twenty years of fiscal equity litigation.

The third dimension of tax effort exhibits concern for taxpayers by seeking equal revenue yield under equal taxing conditions. Often referred to as ex ante fiscal neutrality, this condition of equity would suggest that residents of a school district should receive equal protection of the laws consistent with pupil equity standards, whereby educational opportunity across a state should not not be unduly limited by residence or local economics. When applied to taxpayers, equity would seek to provide all pupils with resources roughly equivalent to their needs and under conditions which generate revenues by roughly equivalent taxing effort. This principle of taxpayer equity has been central to foundation and equalization formulas for general school aid by mechanically adjusting for unequal distribution of wealth-related educational opportunities.

These three principles are concerned with students and taxpayers, and they assume that the quality and accessibility of educational opportunity is at least significantly related to fiscal resources. They frame a working definition of equity reflected in school finance reform. The definition states that students should have access to resources to meet their individual needs regardless of residence, and that taxpayers have a right to expect the state to support education to such an extent that variations in local wealth will not have an adverse effect on local ability to provide an adequate educational system. While other confounding factors exist which ultimately affect pupil access to educational services, these elements of equity provide a framework for evaluating the extension of the reform movement to facility finance.

Although these principles seem sensible, they have not been easily or fully achieved. Part of the failure to achieve complete equity has come from resource inadequacy, and another part has come from a struggle over who has ultimate responsibility to fund education. It has been difficult to define equity and even harder to establish willing responsibility for achieving it. States have only recently accepted the burden, primarily as a result of leading court cases in which battles over the fundamental value of education were fought. The outcome of those struggles determined that the federal government in Rodriguez[16] denied the guarantee of protection under the Fourteenth Amendment's equal protection clause, and the widespread effect of Serrano[17] launched a reform movement which placed a major responsibility for education on the states, particularly in those states where constitutional language established education as a fundamental right.

The Rodriguez decision in Texas caused reformers to turn to state courts. The logic was simply that if federal protection was denied, then protection under individual state constitutions might prove to be a way to force states to substantially equalize educational expenditures. In many instances, the strategy was effective as the language of some state constitutions was construed to deem education to be a fundamental right. In other

instances, states responded to Serrano under the belief that if challenged, their finance system would be judged inequitable. The onslaught of state court challenges to equity begun by Serrano sparked a major reform movement which was to significantly alter educational funding in most states.[18]

The impact of Serrano was widely felt. Equity principles in Serrano were closely aligned to the operational definition of equity expressed by resource accessibility, ex post and ex ante fiscal neutrality. In ruling that equity requires education to be a function of the wealth of the state as a whole, the failure to correct extreme variations represented an abdication of the state's constitutional requirement to establish an adequate system of schools open to all its residents. In Serrano, a primary responsibility of the state for funding education was clearly established.

The net effect of Rodriguez, Serrano, and other cases ruling affirmatively for equity was that states had to find means by which to adjust for wealth variations. Many states rushed to realign their finance formulas on the presumption that, if challenged, their systems for financing schools would be found lacking in equity. Because redistributing property wealth was not physically possible, states were forced to devise equalization methods by which tax revenues would be redistributed under conditions seeking to achieve resource accessibility, ex post, and ex ante fiscal neutrality. Yet fiscal equity, hardfought and not completely won, came to be viewed as the cornerstone on which state funding mechanisms must be based. The state's partnership with the local community in providing an adequate and equitable educational system was at least constructively established by law.

Extension of Equity Principles to Facilities

Although the effect of equity reform was widespread, there was a common belief that equalization principles applied only to general fund expenditures. Yet reliance on local wealth for funding facilities rends the integrity of reform where a continually expanding definition of equity has enveloped nearly all general fund expenditures, has engendered huge special education mandates, and has even extended to transportation on the premise that equal opportunity encompasses the able, the disadvantaged, and even the geographically isolated child. Equity assumes that resources will be adequate, that their distribution will be widely accessible and appropriate to children's needs, and that their impact on learning is significant. Reliance on local property wealth to fund capital outlay and facilities, however, opens the question of vulnerability of many states' programs if challenged. In the words of Governor Calvin Rampton as he addressed the Utah Conference on School Finance in 1972:

> "...if we think there are inequities in state systems for funding current expenditures of public schools, just wait till we examine the way we finance school buildings!"[19]

Despite the recognition of jeopardy envisioned by Rampton and others, facility finance has not received the same attention in the courts as has other equity concerns. The reasons examined earlier (burgeoning direct instructional priorities, relative invisibility of relationship between facilities and educational programs, lingering tradition which resists state encroachment on local choice, and widespread assumption that equalization principles did not apply to facilities) appear to have been major contributors to the incompleteness of the equity fabric. Yet there are indicators which suggest that facilities may have been a dormant element of equity and that the courts are taking greater interest in the problems faced by school districts in funding facilities.

Court Decisions Involving School Facilities

For fifteen years, courts have criticized the methods available to local districts for funding school building projects. Generally an addendum to larger equity decisions, direct reference to capital outlay has been made in numerous court cases. Accordingly, extension of general equity principles to facility funding may be legitimately hypothesized. Shofstall v Hollins[20] in Arizona noted that funds for capital improvements were more closely tied to district wealth than funds for operating expenses and that the capacity of a school district to raise revenue by bond issue is a function of assessed valuation. The court noted in Robinson v Cahill that the state's obligation included capital expenditures, without which required educational opportunity could not be provided. In order to satisfy the court, provisions were made in Serrano II[21] for deferred maintenance funds. The court noted in Board of Education of the City of Cincinnati v Walter[22] that a thorough and efficient system of schools is not met if "...any schools are starved for funds, teachers, buildings, or equipment." The court also showed a concern for capital outlay funding in Diaz v Colorado State Board of Education,[23] stating that some districts were better able than others to provide adequate facilities, and in Lujan v Colorado State Board of Education[24] the court concluded that the fiscal capacity of school districts to raise revenue for bond redemption and capital reserve was a function of property wealth.

More recently, capital outlay financing was an issue in Christiensen v Graham[25] in Florida and Helena Elementary School District v State of Montana.[26] Although the Florida court ruled in summary judgment that the state system for financing education did not violate equal opportunity, Florida has been among those states leading the nation in assisting facility finance. The Montana court, however, found in sharp contrast that the state's system of funding public schools was violative of the state's constitution, and the court attacked facility dependence on local school district wealth. Similarly, capital outlay

emerged in Edgewood Independent School District v Kirby.[27] In Edgewood, a district court judge declared the Texas system of school finance unconstitutional, and the ensuing court order required the legislature to find a mechanism which would guarantee adequate funding for educational expenditures, including facilities. The court enjoined state aid distributions under the present finance system, but stayed the order to allow the legislature appropriate time to remedy the conditions. Although an appeal court reversed Edgewood late in 1988, the argument over facilities contributed to the growth of concern about local wealth dependence for facility needs. The potential for ongoing struggle through continued appeals to the state's highest court highlights the pervasive nature of finance concerns and its applicability to facilities.

The best analysis of potential breadth of the concern for financing school buildings is seen in Pauley v Kelly.[28] Originally filed as a broad concern for inaccessibility to a quality education in West Virginia, Pauley became the first instance in which a court identified a concentrated concern for equal opportunity as defined in part by adequate school buildings. A lower court ruling for the defendants was reversed by the West Virginia Supreme Court which found education to be a constitutional right, that a constitutional right required high quality across the state, and that failure to meet the criteria could not be attributable to the state. The court in Pauley saw a primary flaw in the state's finance scheme because of the reliance on local property wealth for providing quality education, extensively defined to include school facilities.

The implications in Pauley for funding capital outlay are significant. The court went to historic lengths to describe the scope of quality education and clearly indicated that facilities were integral to equal opportunity. The court-ordered master plan for improvement included broad facility mandates and specified in detail that each school would provide adequate space and quality for each area of the curriculum. The court ordered, for example, that every elementary school must have an art room for each 350-500

pupils, and that every secondary school of 500 students would need at least one art room. Even storage areas were detailed, and similar minute specifications were provided for each academic and activity function at the elementary, junior high, and high school levels. While the

operation of politics and fiscal restraint have served to modify the scope of Pauley, the case remains as a standard against which the potential for capital outlay as an issue of equitable concern can be assessed. The exhaustive definition of a quality education found in Pauley and the court's willingness to define for the state what was expected by equity and equal opportunity signalled an awareness that facilities may play a meaningful role in setting the stage for educational success.

The issue of rural and urban plight has also emerged in the court challenges to state finance mechanisms, and problems in funding facilities have emerged as substantial concerns. The Kansas City schools are facing major problems associated with a court ruling which seeks to impose stringent improvements on the city's schools, including an order to issue $150 million in capital improvement bonds to correct facility conditions which the court described as "...literally rotted."[29] Growing sensitivity toward urban needs, including facilities, is also dramatically illustrated by Abbott v Burke[30] in New Jersey. In a 607 page decision handed down in August 1988 (more than seven years after the original complaint in Abbott was filed and more than sixteen years after the New Jersey state finance formula was ruled unconstitutional in the original case of Robinson), an administrative law judge ruled that the state's system of school finance could be found by a court to violate the state constitution. The court observed appalling educational needs in poor districts, vast program and expenditure disparities between poor urban and property-rich suburban school districts, and the role of socioeconomic status and geographic location in determining equal educational opportunity. The attack on the New Jersey system for financing schools aimed a sharp blow at funding primarily derived from

local property taxes. Detailed in the decision were multiple instances of disadvantage to the state's large urban centers. In recommending changes for the state, the administrative law judge noted that changes would be required: enhancing the powers of the state to move students between districts, reconfiguring district boundaries to eliminate overly large and small districts, and combining a high foundation aid plan with comparable categorical funding for transportation and aid to facilities.

Court challenges to methods for funding rural and small schools also exist and are exemplified in a current Tennessee case which cites facilities as an issue. Tennessee Small Counties System v McWherter[31] was filed by 66 small school districts, alleging that the state has denied equal protection to smaller and poorer school districts by failing to provide adequate funding under the state constitution. The focus in the Tennessee case alleges nearly the reverse image of urban difficulties, charging that the state finance mechanism strongly favors urban and suburban areas of the state and denies rural and small communities equal access to funding. The plaintiffs charge that operation of the state finance mechanism provides an inadequate state foundation plan (TFP), inappropriately supplemented through local sales and property tax revenue.

The plaintiffs in Tennessee offer evidence to support the contention of inadequate revenue capacity in rural and small districts. Plaintiffs charge that while equalization is present in the TFP, it is not sufficient to offset differences in sales tax revenue resulting in 1500 percent available resource disparities. Plaintiffs charge that the constitutional requirement guaranteeing education as a fundamental right cannot be met where Tennessee schools rank last in educational expenditures nationally, where state foundation aid underfunds an 'adequate' expenditure level by 43 percent[32], and in which school districts lose accreditation if they fail to meet minimum standards imposed by the state. The evidence cites small school districts which because of insufficient local wealth capacity as defined by property wealth and sales tax revenue must use worn and outdated texts,

cannot meet state minimum pupil-teacher ratios, provide less comprehensive course offerings, must offer split-grade classes, and cannot purchase laboratory and computer equipment. The complaint filed in county court notes that "...in today's society and economy, deprivation of necessary and appropriate courses, facilities, extracurricular activities and materials constitutes a violation by defendants of the rights of the plaintiff students and parents to a minimally adequate education..."[33] The Tennessee case seeks injunctive relief, specifying violation of the state and federal constitutions, demanding reformulation of the state finance structure, and to enjoin defendants from acting pursuant to existing law until the case is decided.

The cases in New Jersey, Missouri, and Tennessee are representative of various states' experience in funding rural and urban schools and their relationship to school facilities. As awareness of rural and urban fiscal exigency grows, other states are considering legal action. In Arizona, rural schools are considering a challenge to the state's finance formula. Other states are experiencing fiscal problems, as in Ohio where 38 districts were forced to seek state bail-out funds totalling nearly $30 million including aid for facilities.[34] A Texas panel has recommended $100 million in emergency capital outlay funds,[35] California voters have been asked to approve more than $800 million in facility aid,[36] and a South Carolina judge has allowed school districts to engage in lease-purchase deals to help relieve more than $1 billion in facility needs.[37] These problems seem endemic to a nation of vast contrasts between large metropolitan populations and vast rural areas where problems of tax base erosion, overburden, and other inordinate costs become significant. Ultimately, challenges to finance schemes are engendered by distress, which is itself a product of inadequate resources. When inadequacy is linked to a distribution scheme believed to be inequitable, litigation is a natural consequence.

What appears preeminent is that awareness of rural and urban issues is growing, that an increasingly sharp advocacy on rural and urban issues is coalescing, and that states will continue to be challenged over methods of funding schools. These tensions result from difficult economic and governmental judgments about the distribution of inevitably finite resources, and the unavoidable consequence points to continued litigation. The longstanding legacy of court comments on funding facilities, the increasing notice by courts of facility concerns, and the emerging court agenda addressing rural and urban concerns, suggest that support for facility funding in all fifty states poses significant questions which deserve serious research and evaluation.

FOOTNOTES

12. Richard A. Rossmiller. "Achieving Equity and Effectiveness in Schooling." Journal of Education Finance, v12, n4, Spring 1987.

13. Robert Berne and Leanna Stiefel. The Measurement of Equity in School Finance: Conceptual, Methodological, and Empirical Dimensions. Baltimore: Johns Hopkins University Press, 1984.

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16. San Antonio Independent School District v Rodriguez, 411 U.S. 1, 93 S.Ct. 1278 (1973).

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18. William E. Camp and David C. Thompson. "The Impact on Public Education of School Finance Reform and Finance Reform Initiatives." Journal of Education Finance, v14, n1, Summer 1988.

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20. Shofstall v Hollins, 515 P.2d 590, (1973).

21. Serrano II, 18 Cal.3d 728, 135 Cal. Rptr. 345 557 P.2d 929 (1976); See also Serrano III 180 Cal. App.3d 1187, 226 Cal. Rptr. 584 (1986).

22. Board of Education of the City of Cincinnati v Walter. 390 N.E.2d 813, (Ohio 1979).

23. Diaz et al v Colorado State Board of Education. Superior Court of Colorado City and County of Denver, No. C-73688, (1977).

24. Lujan v Colorado State Board of Education. 649 P.2d 1005, (1982).

25. Christiensen et al v Bob Graham et al. Case No. 86-1390, of the opinion in the 2nd Circuit Court of the 2nd Judicial Circuit in and for Leon County, Florida. Motion for partial summary judgment, 1988.

26. Helena Elementary School District No. 1 and High School District No. 1 of Lewis and Clark County; Billings Elementary School District No. 2 and High School District No. 2 of Yellowstone County et al and Montana Education Association et al v State of Montana; and the Montana Board of Public Education; and the Montana Superintendent of Public Instruction, Cause No. ADV-85-370, January 13, 1988.

27. Edgewood Independent School District v Kirby. No. 362,516 (District Court of Travis County, 250th Judicial District of Texas, June 1, 1987).

28. Pauley v Kelly, 255 S.E.2d 859, (W. Va. 1979); later changed to Pauley v Bailey, 324 S.E.2d 128, (1982): Pauley v Gainer, 353 S.E.2d 318.

29. Jenkins v State of Missouri. W.D.Mo. 639 FSupp 19, aff as mod 807 F2d 657, cert den 108 SCt 70, 98 LEd2d 34 and Kansas City, Missouri School Dist v Missouri, 108 SCt 70, 98 LEd 2d 34. In a court order dated September 15, 1987 the court described in detail conditions present in the KCMSD.

30. Abbott v Burke, OAL Docket No. EDU 5581-85, Agency Docket Number 307-8/85 (unpublished).

31. Tennessee Small Counties System v Governor McWherter et al. Filed in the Chancery Court for Davidson County, Tennessee. Received July 8, 1988, Attorney General's Office.

32. Tennessee School Finance Equity Study (1979) reported that a base of $939 per pupil was needed to meet the average cost of a fourth grade program. In 1987, TFP provided $535 per pupil, unadjusted for inflation.

33. Ibid.

34. Education Week, October 19, 1988.

35. Education Week, November 30, 1988.

36. Education Week, November 16, 1988.

37. Education Week, November 9, 1988.

CHAPTER 3

RESEARCH ON FUNDING AND SCHOOL FACILITY NEEDS

State assistance to capital outlay funding has been a research interest for many years, and the absence of substantial aid to facility projects in many states has not been due to a lack of research evidence. The early research literature focused on identifying problems associated with capital outlay funding, and as early as 1922, the literature was suggesting practical ways for states to assist local districts. Proposals for state assistance varied widely, but they consistently focused on the concept of ability to pay. Proposals were frequently advanced, but none were universally popular, and few were accepted enthusiastically by legislative or educational leaders.

Early efforts focusing on applied methodology led to more recent attempts to identify problems and to provide more sophisticated responses to national concerns. The growing awareness of problems faced by local school districts in providing facilities prompted the federal government to implement Public Law 874 which provided impact funds for the states whose local tax bases were affected by federal installations. The National Education Finance Project (NEFP) undertook a major survey of legal bases, procedures, and practices for funding facilities in the fifty states and suggested new models for facility finance. Although the NEFP was the last major effort on a national scale, interest in facility funding has continued, and a growing series of research articles, dissertations, and legislative studies have confirmed concerns about adequacy and equity.

Adequacy, Equity, and Needs

The majority of equity research in capital outlay has been conducted since the mid 1960s. Although the emphasis has been more on current problems than on classic equity measurement, findings have been consistent. Plainly, heavy reliance on property wealth

has had a deleterious effect on the adequacy and condition of facilities. The research has overwhelmingly indicated that increased state involvement provides a neutralizing effect on local wealth dependency as the principal determinant of facility adequacy, and that the operation of local wealth has had a detrimental effect on the quality of programs offered to students. The troublesome relationship between wealth and facilities is consistently identified in wide disparity of ability to service capital outlay and debt retirement. These conditions have been heightened by inflation, population changes, educational program growth and improvements, and normal deterioration of facilities. The evidence points sharply to advantages held by wealthier districts which can tax less for services, produce more revenue per pupil, and provide a better education. While effort has been made to improve equity in most funding areas, the evidence continues to demonstrate that the absence of state assistance in funding facility needs violates fundamental equity principles.[38]

Local Capital Improvement Needs

The literature weaves together the areas of equity and specific facility needs. Problems confronting rural and urban schools have been prominently noted. Repeatedly, the literature emphasizes a backlog of needs among districts of all sizes, and their relative ability to pay for unmet needs is documented. The American Association of School Administrators, in cooperation with the Council of Great City Schools and the National School Boards Association, reported estimates for maintenance backlog in excess of $25 billion in the nation's schools, and reports from the individual states confirm and detail the staggering estimated needs.[39]

The literature indicates that modernization and replacement are growing needs, while other uncontrollable influences such as handicapped accessibility, Title IX, asbestos control, and expanding curricular needs including technology have outstripped local

budgets.[40] The concept of deferred maintenance and construction has yielded huge amounts of unmet needs in the various states. A 1987 survey by the Oklahoma State Department of Education estimated that more than $622 million in needs had gone unaddressed in that state, and if all districts were to extend themselves to the legal maximum for capital outlay purposes, needs would still exceed $125 million.[41] In 1987 North Carolina similarly noted $3.2 billion in unmet needs and enacted new legislation addressing part of the state's facility shortcomings by providing more than $793 million in new state monies.[42] In 1988, California voters approved Proposition 79 authorizing $800 m ion in bonds to address some of that state's needs for renovation and new construction,[43] and evidence submitted in Texas suggests that a total of $5.4 billion will be needed to fund facility projects by 1996.[44] The results of these representative instances are repeated throughout the states which have undertaken studies, indicating that inattention to mechanisms for providing facilities in this century has resulted in accumulation of large needs which have been inadequately addressed.

Identified needs have been extensive, and some research has begun to examine levels of need and ability to pay in rural and urban settings. Evidence on deferred maintenance, construction and equity between districts is beii g linked with rural and urban issues in Kansas where a growing body of evidence indicates that districts are operating at varying levels of budget stress which may have led to increasing facility problems. In 1985, a study of Kansas school districts found that fully 10 percent of all districts were unable to fund an average practice budget per pupil of $54.75 for capital outlay purposes under uniform tax effort. Serious concerns were posed about resource accessibility, wealth neutrality, and taxpayer equity where local ability to generate revenue differed by nearly 700 percent, leading to important doubts about whether average practice was sufficient to truly meet actual needs.[45]

Rural and urban issues in Kansas were examined in separate studies in the same year. A survey of rural school districts of less than 1,000 enrollment found the average age of buildings was sufficiently high to question continued service, that maintenance decisions were significantly related to debt levels, and that estimates for maintenance deferral approached $60 million.[46] Similar evidence was found in the state's urban school districts where it was concluded that a positive relationship between local wealth and condition of facilities had significantly contributed to needs for deferred maintenance exceeding $321 million.[47] In 1988, the concepts were extended in a further survey of Kansas school districts which found a strong relationship between condition of facilities and local tax bases, leading to conclusions that many rural and urban school systems within the state were exerting significant effort for facility projects with inordinately differing results and were losing the battle of unmet facility needs because of local wealth insufficiency.[48]

Because facility repair, maintenance, renovation, and construction remain outside many states' formulas for funding schools, serious questions arise. These questions inevitably relate to local inability to fully fund capital outlay needs and raises concerns about whether states have an obligation to become involved in meeting educational facility needs. In Kansas, such indicators suggest that dependence on local wealth to finance facilities violates accepted principles of equity, results in wealth-related condition of facilities, relies substantially on local property wealth as a determinant of the quality of facilities, assumes a negative effect between state funding mechanisms on the relationship between facilities and educational programs, and suggests the need for additional research into the extent to which rural and urban areas of the state are substantively affected by the operation of state funding mechanisms for capital outlay.

The estimates of unmet needs in various states and the research in Kansas on equity indicate that the relationship between facilities and educational programs may become more intensely observed by the courts. Given indications of court consternation, growing

awareness of rural and urban distinctions, and attention evident in research, critical examination of capital outlay financing is not likely to diminish in the near future. The combination of research knowledge and legal implications frame the legal jeopardy questions within which existing state policy should be evaluated.

FOOTNOTES

38. Ibid., David C. Thompson, et al. State Involvement in Capital Outlay Financing: Policy Options for the Future, Kansas State University Center for Extended Services, March 1988.

39. American Association of School Administrators Council of Great City Schools and National School Board Association. The Maintenance Gap: Deferred Repair and Renovation in the Nation's Elementary and Secondary Schools, January, 1983. Also see Education Week, March 1, 1989. "Escalating 'Bricks-and-Mortar' Cost: The Problem Nobody Wants" for a thorough description of current representative problems found in the fifty states.

40. David C. Thompson and William E. Camp. "Analysis of Equity in Capital Outlay Funding Mechanisms." Journal of Education Finance, v13, n3, Winter 1988.

41. Oklahoma State Department of Education. State Capital Improvement Master Plan for Public Common Schools. Oklahoma City: State Department of Education, 1987.

42. North Carolina State Department of Public Instruction. A Survey of Public School Facility Needs to Meet the Requirements of the Basic Education Program. Raleigh: State Department of Public Instruction, November 1986.

43. Ibid., Education Week, November 16, 1988.

44. Debra S. Haas and William E. Sparkman. "Financing School Facilities in Texas." Journal of Education Finance, v13, n4, Spring 1988.

45. David C. Thompson. "An Examination of Equity in Capital Outlay Funding in Kansas School Districts: Current Methods, Alternatives, and Simulations Under Three Selected Equity Principles." Unpub. Ed.D dissertation, Oklahoma State University, 1985.

46. David S. Honeyman and G. Kent Stewart. "Capital Fund Mechanisms and the Condition of Facilities in Rural and Small Schools." Research in Rural Education, v24, n1, Winter 1985.

47. Mary E. Devin. "Deferred Repair and Maintenance in Selected Kansas Schools." Unpub. Ed.D dissertation, Kansas State University, 1985.

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CHAPTER 4

ANALYSIS OF EQUITY ACHIEVEMENT UNDER COMMON FUNDING OPTIONS

Determining adequacy and equity lies in measurement. The enormity of needs throughout the nation poses uncertainty about the outcome if potential court challenges to finance mechanisms emerge. The growing litigation involving rural and urban population segments also suggests that research should determine if substantive differences inordinately divide these groups on the larger issues.

Kansas provides the opportunity for representative research because it is among the 22 states which provide no assistance to local school districts for facility needs. Research has suggested a sizeable need for facilities in Kansas based on deferred maintenance and construction, and the relationship between equity and local wealth has been hypothesized. Research into rural and urban subgroups of the state has been conducted, and the results have indicated the appropriateness of the continued exploration found in this monograph which links average practice expenditures with estimated need in the context of legal jeopardy.[49]

The research in Kansas can assist policy makers and school leaders in evaluating state policy. The framework can be widely replicated among the various states, and the modifications for additional alternative questions can be easily integrated into the model.

Policymakers in all states should reflect on substantive research questions. Many questions which guided this monograph were addressed earlier and will be summarized in Chapter Five. In addition, this research sought answers to the following questions:

(1) What are the common problems in funding facilities?
(2) Are there important adequacy and equity differences between rural and urban school districts?
(3) Are districts able to levy adequately for facility needs?
(4) What are the state's characteristics when evaluated for resource accessibility, student, and taxpayer wealth neutrality?
(5) Which alternative method for funding capital outlay shows the greatest amount of resource accessibility, wealth neutrality, and horizontal taxing equity under simulation in relation to funding both current average practice and estimated need?

(6) What is the rank-order among alternatives regarding equity?
(7) Importantly, what would be the estimated cost to the state of each alternative funding model examined?

Answers to these questions are important in any state. Kansas was selected to examine for equity achievement under four common methods for capital outlay funding. The state's largely rural nature, its dependence on local wealth for facility funding, and the current interest by some organizations in the state to introduce state aid provided an ideal opportunity to test hypothetical models under realistic state policy conditions. Models were selected which represented functional simplicity, attempting only to demonstrate quantitative and substantive differences in the relative degree of equity approximation within the context of adequate levels of funding. The models simulated included (1) total local control operating as the current mechanism in Kansas and those states which offer no support to local districts, (2) full state funding operating with recapture provision for excess wealth, (3) an equalized grant ranging hypothetically from 0-100 percent with no recapture, and (4) a flat 50/50 cost-share grant where all districts levy uniformly and receive a grant from the state without regard to local wealth. Finally, a consideration of incorporating capital outlay into the existing equalized general fund formula is discussed among the conclusions and recommendations. By comparing adequacy and equity under twin concepts of average practice and estimated needs, policymakers may observe the nature and extent of the problem with startling clarity.

PART I
STUDY DESIGN

Operationalizing Equity Principles

If equity is to be measured, it must be set apart from abstraction. As Berne and Stiefel have indicated, measurement of equity requires deliberate value judgments about what will be measured.[50] Selection of objects to be measured implies a hierarchy of

values which chooses between competing objects to be examined. Fiscal equity research most frequently prefers pupils over taxpayers.

This research places higher substantive emphasis on pupil equity, although concern for taxpayers is important and represented. Pupil emphasis in this research first seeks to achieve horizontal equity by placing all districts at a similar starting point for comparison and then seeking alternatives which are sensitive to resource flow in inverse proportion to ability or which flow in sufficient amounts without regard to local tax yield. The assumption accepted in this research is that vertical equity should be a secondary priority in facilities because adequacy and equality of opportunity should first be achieved. Similarly, this research demonstrates concern for taxpayer equity by focusing on the horizontal dimension of equal yield for equal effort, rather than on more complex vertical equity considerations. As such, this research focuses on the effects of introducing state aid to capital outlay. Resource accessibility, ex post fiscal neutrality, and ex ante fiscal neutrality are used to assess the outcomes.

Alternative methods for financing capital outlay are examined for adequacy and equity and their relative ability to demonstrate independence from local wealth. Adequacy is examined before equity because sufficient resources are the prime concern. Adequacy is defined in this research as (1) ability to fund an average practice model (APM) for capital outlay expenditures, and (2) ability to fund an estimated need model (ENM). Adequacy for pupils and taxpayers is satisfied when all districts are capable of funding the model.

Equity is then examined under resource accessibility, ex post, and ex ante fiscal neutrality. For pupils, operationalizing resource accessibility requires that resources to fit pupil needs should be available equally throughout the state. For taxpayers, it requires sufficient revenue to meet those needs under uniform tax effort. When the APM and the ENM are fully funded, resource accessibility is achieved.

Ex post fiscal neutrality examines pupil equity by restating and extending resource accessibility. Ex post fiscal neutrality requires absence of positive linkages between wealth and residence, attributing expenditure disparities to local free choice rather than tax base inadequacy. The issue becomes the aggregate wealth of the state. As Friedman[51] summarized, ex post fiscal neutrality is probably violated if high wealth districts [can] consistently spend more than low wealth districts. When sufficient aid to fund the APM or ENM is received without regard to local wealth or when aid is inversely related to ability to pay, ex post fiscal neutrality is achieved.

Finally, ex ante fiscal neutrality examines taxpayers. As Friedman again summarized, ex ante fiscal neutrality seeks equal yield for equal effort, desiring a choice mechanism whereby the community freely determines its level of expenditure and the difference between capacity and need is funded by the state. This research measures ex ante fiscal neutrality as the relative ability of districts to fund the APM or ENM under equal taxing conditions. When districts levy uniformly and receive sufficient aid to fund the APM or ENM irrespective of local effort or aid is inversely related to ability to pay, ex ante fiscal neutral is achieved.

Establishing Average Practice and Need Models

Adequacy has historically been defined as average practice which may be something quite apart from actual need. While earlier research in Kansas has examined average practice and need as separate conditions, this research compares average practice with estimates of need.

In setting a target level of funding which represents adequacy for facility needs, several issues were considered. In its general fund equalization formula, Kansas utilizes a median expenditure to set budget controls for enrollment categories. Enrollment categories are size ranges in which differential costs based on economies of scale are

recognized. Allowable costs per pupil increase as district size declines because of commensurately more expense per pupil, except in the largest districts where the state also adjusts costs upward to reflect special needs.

Although the state uses medians as the measure of resource adequacy, a median budget per pupil for capital outlay average practice and need models was rejected. A mean budget per pupil for both average practice and need was believed to better represent actual spending patterns and estimated need because districts may have inordinate or no annual costs for a single year. An average practice model (APM) was constructed from data on actual levy experience spanning the years 1985-88 and entered into a formula which summed actual revenue receipts and divided by the number of pupils in the state for the same three year period. The formula yielded a single budget per pupil value (APM) which defined resource adequacy as current practice. The APM then served as the target which each alternative resource simulation sought to satisfy. When all districts could met or exceed the APM, adequacy and equlty (as defined by average practice) were achieved. Separate APMs were compared for the entire state and for rural and urban subgroups.

The APM was then inserted into each alternative mechanism for funding capital outlay and compared against each district's actual wealth per pupil (WPP). Wealth per pupil was defined as the total mills levied in the state for capital outlay and debt service divided by the number of districts. The result was a mean levy for capital outlay and debt service which was used to derive each district's per pupil capital outlay ability by multiplying it against the local unadjusted assessed valuation divided by the fulltime equivalency (FTE). Subtracting wealth per pupil from the APM then determined each district's ability to fund the APM or ENM so that adequacy and equity could be assessed for each revenue model.

A need model was also derived because of the obvious flaw inherent in an average practice model. An average practice model is highly useful in comparing current practice among districts, but it cannot be assumed to exhibit genuine adequacy or equity because it

may severely underestimate need and reflect various restraints. An estimated need model (ENM) was constructed from the work by Honeyman[52] and Devin[53] by summing their need estimates and dividing by the FTE to derive a target need budget per pupil. Three ENMs were derived in order to separately assess the entire state and rural and urban populations. Local adequacy could be estimated by subtracting the ENM from per pupil wealth under each revenue model. Because earlier works had either estimated adequacy as it is limited by fiscal constraints or had estimated need without assessing equity achievement, the present research was able to reflect upon the substantive difference between average practices and genuine need.

Statistical Measurement of Equity

Assessing adequacy and equity requires measurements in order to compare and rank-order the desirability of the alternative funding methods. Eight statistical measures were used. These measures provided multiple assessments and represented the four empirical groupings suggested by Berne.[54] The purposes and benefits derived from the eight measures can be summarized:

Unrestricted range: The unrestricted range (UR) demonstrates raw ability of districts across the state under uniform tax levy. Focusing on distribution extremes, the unrestricted range subtracts the bottom from the top to capture the spread. As the UR decreases in value, equity is presumed to increase.

Restricted range: The restricted range (RR) demonstrates the range after extreme outliers are removed. The restricted range exhibits the bulk of the distribution because the top and bottom five percents of outliers have been stripped away, leaving the clustered group. It may logically be expected that the range will decrease in value over the unrestricted range, thereby achieving greater equity appearance by ignoring

outliers. The advantage of the restricted range lies in observing the width of the distribution after the anomalies are removed.

Federal range ratio: Based on the restricted range, the FRR is a wealth neutrality measure which expresses the distribution's width as a single numeric value, reducing large dollar discrepancies to more meaningful comprehension. The FRR is found by dividing the restricted range by the lowest score at the fifth percentile. In this research, the FRR provides an alternative measure allowing for meaningful single-digit equity comparison.

Relative mean deviation: The relative mean deviation (RMD) examines the difference in each district's per pupil revenue ability and the APM or ENM. It provides an additional estimate of equity achievement and allows examination by individual district of deviations from the APM. The RMD is the absolute value of differences as a percentage of the total expenditures in the distribution. Normally ranging between zero and one, if the RMD exceeds the normal range it may be seen as a measure of percent difference of need beyond ability to pay. As the score increases, the degree of equity is assumed to decline.

Pearson correlation coefficient: Simple correlation coefficients are reported in this work which were derived in earlier extensive analysis using correlation and regression techniques.[55] Correlation and regression step beyond simple descriptive variance by testing suspect variables for relationships which may later be examined for causation by regression analysis. Ranging from -1 to +1, correlations indicate strength of variance in tandem.

Gini coefficient: The Gini coefficient plots the cumulative percentage of school revenue to cumulative population proportions. It identifies the degree of wealth concentration and focuses on the size of the lower half of a distribution. The Gini

estimates the effect of poorer districts on equity and identifies the magnitude of the lower 50 percent of all districts.

Coefficient of variation: Defined as the square root of variance in revenue divided by the mean revenue, the coefficient of variation assesses total equity in a distribution. Sensitive to the total distribution, the coefficient of variation is a calculated value which decreases as equity increases. The coefficient of variation is used in this research as a multiple measure of equity estimation which is sensitive to the total distribution.

McLoone Index: This index is the ratio of total dollar inputs for below median pupils to the dollar inputs required if all pupils below the median were receiving it. Like the Gini, the McLoone Index concentrates on the size of the lower half of the distribution. As the value increases above zero, equity is presumed to increase. In this research, the McLoone provides a second measure of wealth insufficiency among poorer districts.

Assessing adequacy and equity requires moving beyond simple description and reporting. Statistical methodology provides the tools by which adequacy and equity may be meaningfully evaluated, and the usefulness of statistical measures becomes greater when attempting to compare alternative choice models. These measures allow the alternative funding choices of local control, state assumption, and variations on grants to be weighed and compared for the state and its rural and urban subgroups under the governing equity principles of resource accessibility, ex post and ex ante fiscal neutrality on the basis of average practice and estimated need.

PART II:
FINDINGS

Results of Descriptive Analysis

The series of studies conducted in Kansas have revealed interrelated conditions which confirm reports from other states regarding growing facility needs and resource inadequacy. Like many states whose facilities are aging rapidly and whose revenue sources are limited, Kansas school districts are experiencing significant needs.

Descriptive data on the age and condition of Kansas facilities, sources of revenue, and other financial and tax levy information describe facility problems in Kansas which may be expected to increase with time.[56] Only slightly more than 10 percent of all attendance centers are less than ten years of age. Almost 75 percent are more than twenty years old, and nearly 20 percent of all buildings exceed fifty years of age. Their condition reveals nearly one-fourth in fair to poor condition. Rural and urban subgroupings find 29 percent of rural schools rated in fair to poor condition, while 7.1 percent of the urban schools are similarly rated.

Not surprisingly, the tax base of Kansas school districts reflects a heavily rural economy. Nearly 60 percent rely primarily on agriculture, and an additional 11 percent identified energy production as the major tax source. While the state's tax base is stronger and more diverse than the reported percentages may indicate,[57] many Kansas school districts have experienced recent valuation declines because of depressed agricultural and energy-related industries which have resulted in major shifts in school aid under the state's general fund equalization formula.

None of the shifts, however, have aided facilities. The data indicate that approximately 80 percent of all school districts are levying for capital outlay, and more than half have bonded indebtedness totalling approximately $385 million which must be serviced by local property taxes. Yet significant capital projects are planned. Nearly half

TABLE 4.1

SUMMARY OF MEAN TAX EFFORT,
AVERAGE PRACTICE, AND NEED

	Rural	Urban	State
1985-86			
Mills for Capital Outlay	3.9	6.3	4.5
Mills for Debt Service	2.8	3.3	2.9
1986-87			
Mills for Capital Outlay	2.95	2.68	2.87
Mills for Debt Service	4.31	5.24	4.56
1987-88			
Mills for Capital Outlay	2.8	3.3	2.9
Mills for Debt Service	3.4	6.0	4.1

THREE YEAR MEAN MILL RATE

	Capital Outlay	Debt Service	Combined Mean
Rural	3.22	3.5	6.72
Urban	4.09	4.85	8.94
State	3.42	3.85	7.27

	AVERAGE PRACTICE MODEL REVENUE PER PUPIL	ESTIMATED NEED MODEL REVENUE PER PUPIL
Rural	$83.50	$61[illegible].30
Urban	$53.30	$1,064.30
State	$61.51	$953.08

of all districts indicated plans for facility projects, and 20 percent reported plans for bond elections. At the same time, 10 percent reported recent bond election failures.

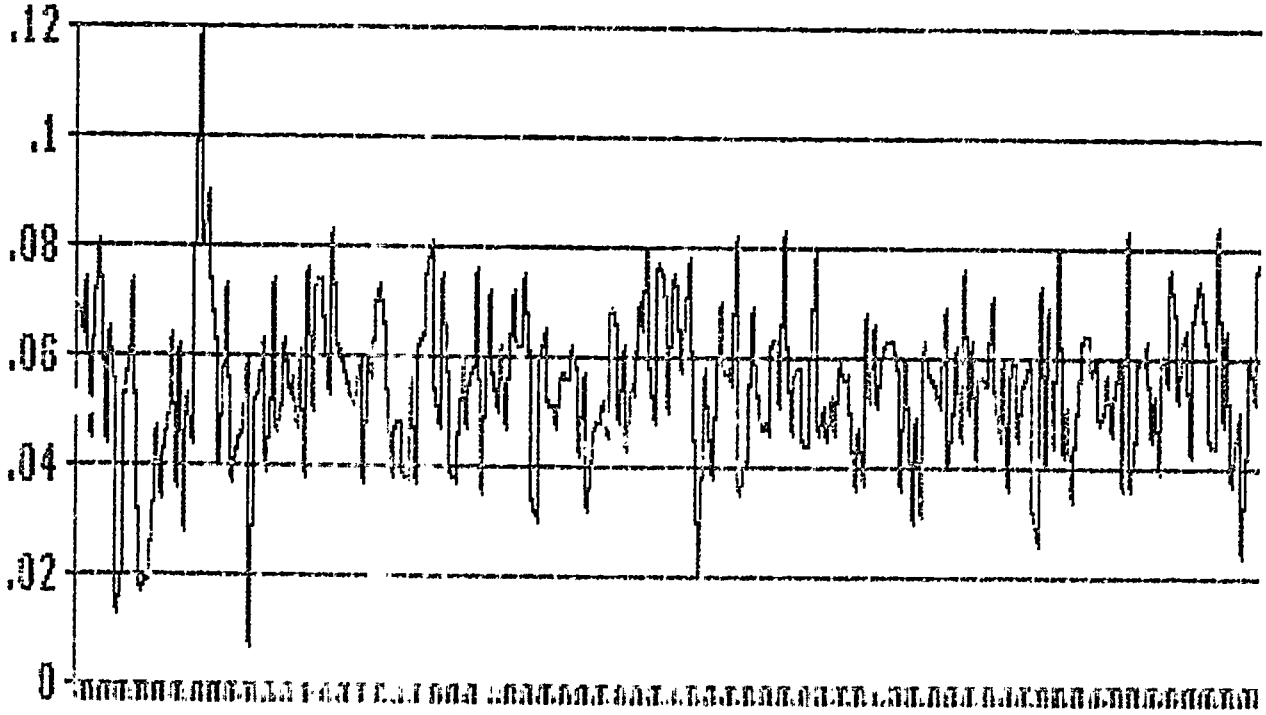
The data in Table 4.1 indicate relatively wide variations in local effort for facility funding. Three years of comparative levy data indicate that in general the state's school districts are making a concerted effort to maintain and improve facilities. Average levies for the most recent three year period indicate a composite mean levy for capital outlay and bonded indebtedness of 7.27 mills. Urban school districts are exerting roughly one-third greater overall effort for facilities than are rural schools, yet urban districts receive less revenue per pupil. Revenue-generating ability defined by average practice (APM) indicates that the mean levy produces $83.50 per pupil in rural schools, $53.30 in urban schools, and $61.51 statewide. These amounts stand in sharp contrast to estimated needs per pupil of $1,064.30 for urban districts, $611.30 for rural schools, and $953.08 for the state.

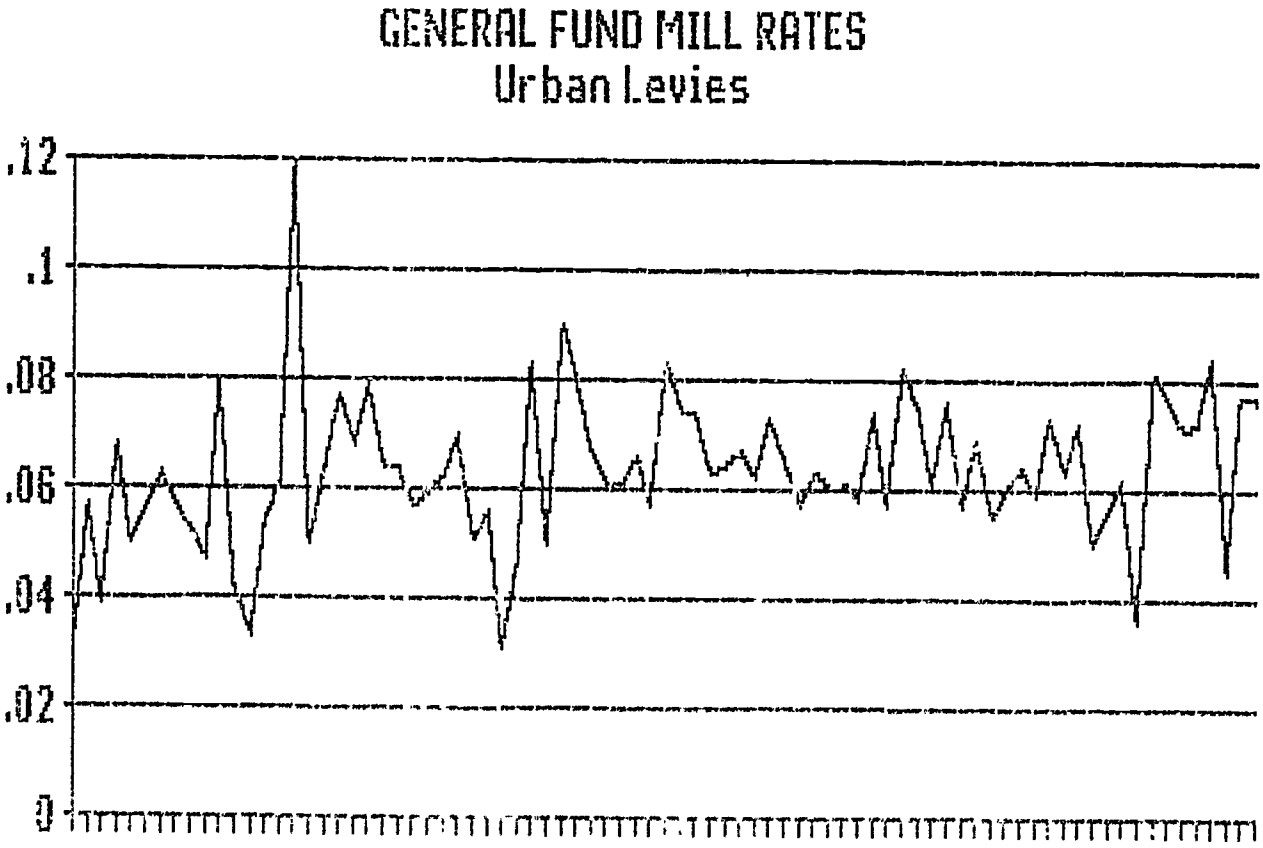
Finally, descriptive data indicate that school districts in Kansas are making a significant effort to maintain and construct facilities appropriate to educational needs. The mean combined levy for facility support increases the average total mill rate of school dis[illegible]s by nearly 14 percent, and if calculated using adjusted assessed valuation, facility effort amounts to more than one-third of the average total general fund mill levy. Analysis of rural and urban effort suggests that rural districts exert approximately 25 percent less effort and spend roughly 56 percent more per pupil than do urban school districts to meet facility needs.

Results of Statistical Analysis: Total Local Control

The importance of multiple and extended analysis becomes apparent when using descriptive measures because the results may present incomplete evidence. Further analysis of the relationship between wealth and facilities reveals a somewhat modified

GENERAL FUND MILL RATES
Statewide Levies




GENERAL FUND MILL RATES
Urban Levies
.12
.1
.08
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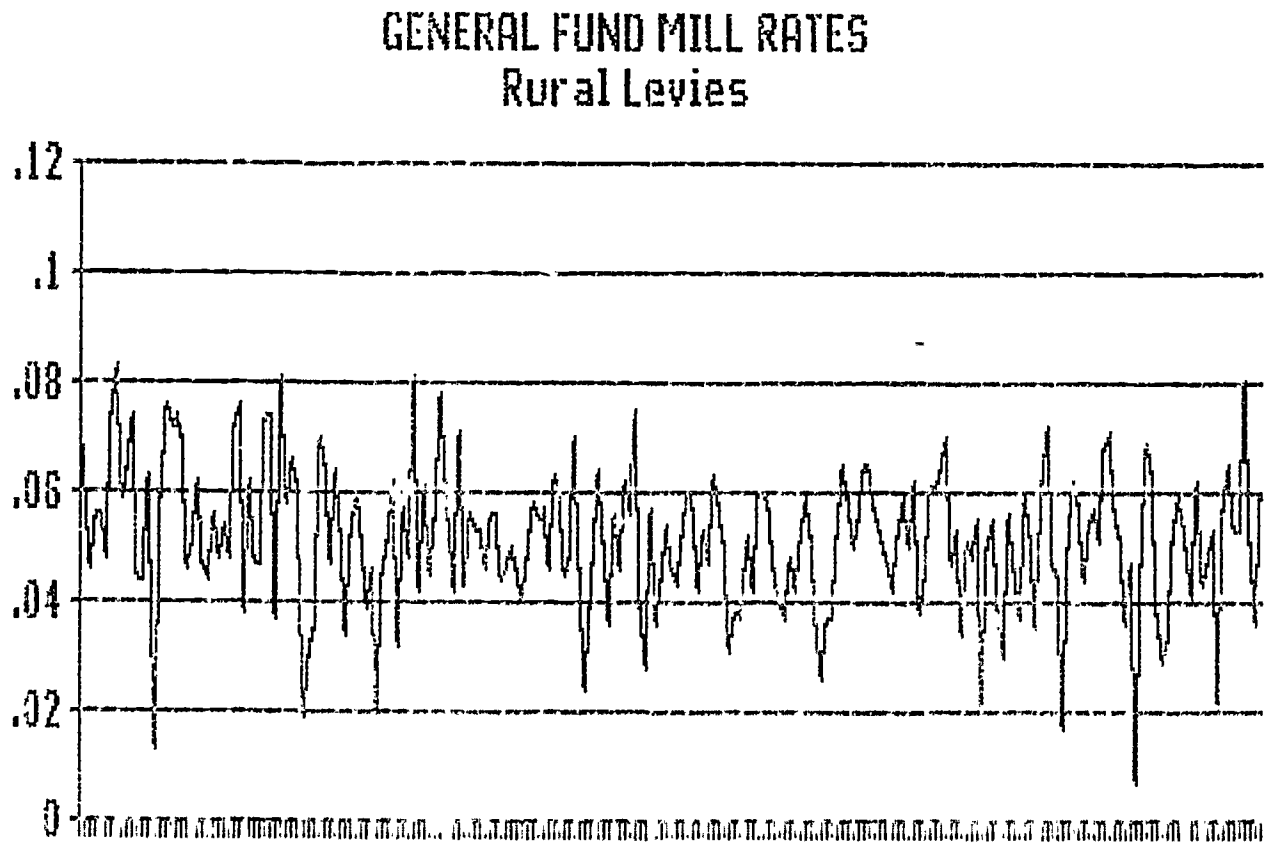
.04
.02
0


GENERAL FUND MILL RATES
Rural Levies
.12
.1
.08
.06
.04
.02
0

description of the state of Kansas, resulting in markedly different conclusions under later substantive analysis.

The average practice model (APM) and estimated need model (ENM) were used to examine resource adequacy and equity. The APM described current practice, while the ENM described estimated need in the average district. By comparing actual practice and estimated need under the four alternative funding plans, adequacy and equity could be examined under the stated resource accessibility, wealth neutrality, and equal tax effort equity principles defined earlier.

Table 4.2 describes adequacy and equity at the state level. Statistical measurement overwhelmingly indicated that total local responsibility for funding capital outlay is inadequate and inequitable under either average practice or estimated need. Extreme variation in resource accessibility exists where unrestricted ability to pay ($4,633.89 per pupil) exceeded 93:1 and the restricted range ($761.49 per pupil) is nearly 10:1. Dependence on the local tax base caused 29 districts (9.6%) to be incapable of funding the APM. The estimated need model, which suggests that average practice has underestimated need by more than 1500 percent, found the present method of total local control to be extraordinarily inadequate by all measures as an overwhelming number of districts were unable to fund the estimated need per pupil. These results support earlier correlations among suspect variables in Kansas school districts which found a near perfect positive relationships between capital outlay ability and district wealth. Those correlations indicated strong linkages between wealth and planned improvements (.63), condition of facilities to age (.59), wealth to level of bonded indebtedness (.3034), and planned improvements to debt (.2641).[58]

Rural and urban school districts revealed similar inequities under local support for facilities. Table 4.3 summarizes urban school districts with enrollments greater than 1,000. Again, local responsibility for capital projects is inadequate and inequitable under

TABLE 4.2

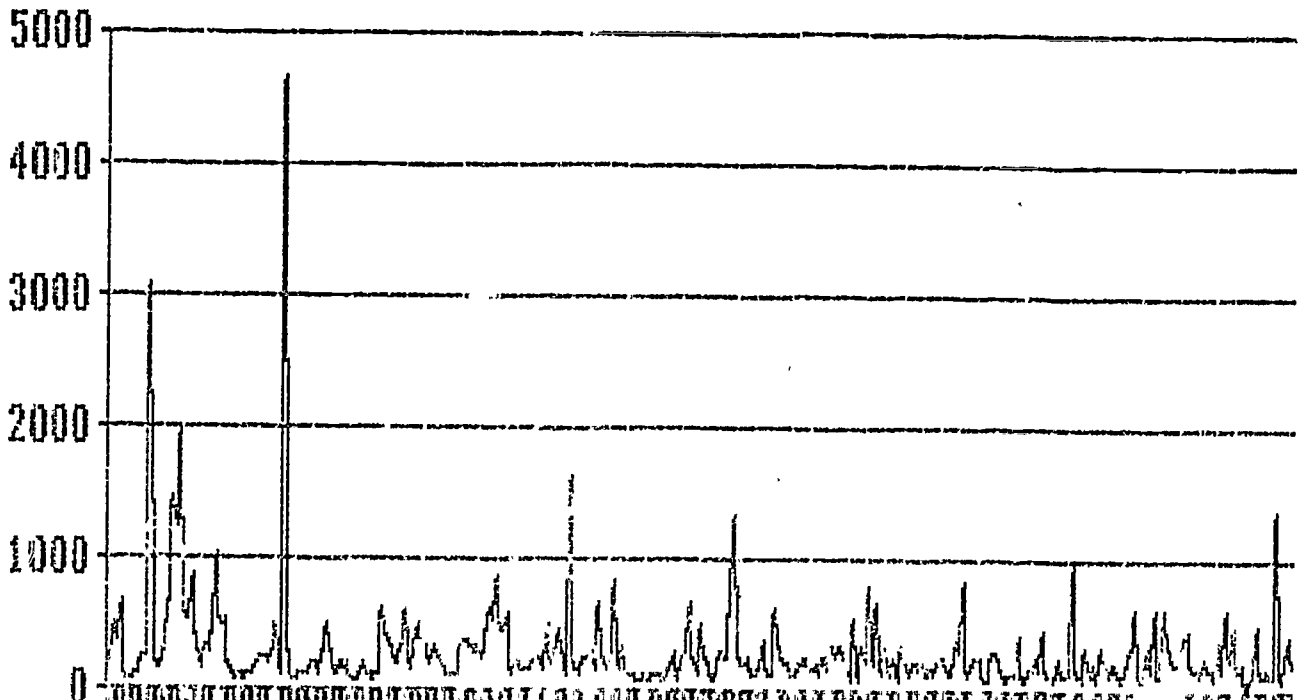
ADEQUACY AND EQUITY OF FOUR METHODS
OF FUNDING FACILITIES
STATE SUMMARY

Measure	Local Control		Full State Funding		Percentage Equalized		50/50 Grant	
	APM	ENM	APM	ENM	APM	ENM	APM	ENM
U.R.	$4,633.89	$4,633.89	$0	$0	$0	$0	$4,633.89	$4,633.89
R.R.	$761.49	$761.49	$0	$0	$0	$0	$761.49	$761.49
F.R.R.	8.55	8.55	0.0	0.0	0.0	0.0	4.28	4.28
R.M.D.	.75	1.80	0.9	0.0	0.0	0.0	.38	.54
C.V.	.49	.83	0.0	0.0	0.0	0.0	.24	.42
Gini	.43	.94	0.0	0.0	0.0	0.0	.22	.47
McLoone	.06	.003	1.00	1.00	1.00	1.00	.82	.0017
N below mean	29	283	0	0	0	0	15	142

N= 303

APM= Average Practice Model
ENM= Estimated Need Model
U.R.= unrestricted range
R.R.= restricted range
F.R.R.= federal range ratio
R.M.D.= relative mean deviation
C.V.= coefficient of variation
Gini= Gini coefficient
McLoone= McLoone Index

WEALTH PER PUPIL RANGE FOR THE APM



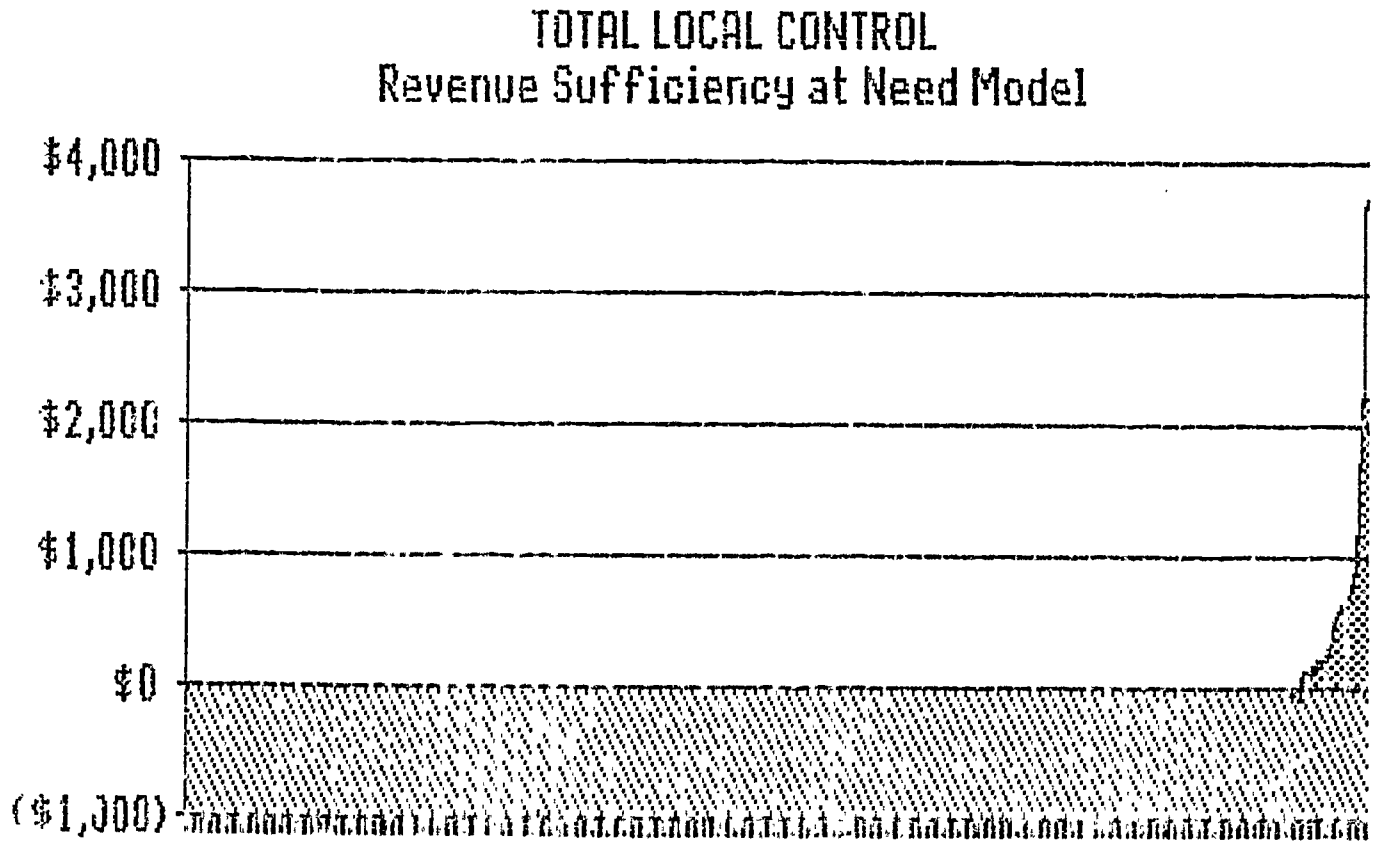

TOTAL LOCAL CONTROL
Revenue Sufficiency at Need Model
$4,000
$3,000
$2,000
$1,000
$0
($1,000)
Adjusted for Debt

TABLE 4.3

ADEQUACY AND EQUITY OF FOUR METHODS
OF FUNDING FACILITIES
URBAN SUMMARY

Measure	Local Control		Full State Funding		Percentage Equalized		50/50 Grant	
	APM	ENM	APM	ENM	APM	ENM	APM	ENM
U.R.	$1,550.00	$1,550.00	$0	$0	$0	$0	$1,550.00	$1,550.00
R.R.	$89.95	$89.95	$0	$0	$0	$0	$89.95	$89.95
F.R.R.	.85	.85	0.0	0.0	0.0	0.0	.42	.42
R.M.D.	.75	1.80	0.0	0.0	0.0	0.0	.38	.54
C.V.	.28	.85	0.0	0.0	0.0	0.0	.14	.43
McLoone	.04	.33	1.00	1.00	1.00	1.00	.50	.03
N below mean	0	80	0	0	0	0	0	40

FTE > 1,000
N= 81

APM= Average Practice Model
ENM= Estimated Need Model
U.R.= unrestricted range
R.R.= restricted range
F.R.R.= federal range ratio
R.M.D.= relative mean deviation
C.V.= coefficient of variation
McLoone= McLoone Index

either the APM or estimated need model. Unrestricted wealth ($1550) was nearly 25:1, and the restricted range ($89.95) approached 2:1. Despite the variance in raw wealth, urban school systems demonstrated a much narrower wealth distribution. The narrowing of wealth disparity was reflected in other statistical measures, but the effect of a relatively wide wealth ratio for funding facilities was consistently observed. While all districts were able to fund the low APM, inequity soared under the need model where 80 urban districts (99%) were unable to meet the ENM per pupil of $1,064.30. Like the state in general, total local responsibility for financing facility needs appeared to be highly inequitable as urban districts were unable to completely satisfy equity principles.

Results were similar for rural districts. While urban districts exhibited high resource inequity within a narrower range of variation, rural districts were widely dispersed. Table 4.4 summarizes rural school districts with enrollments less than 1,000. In striking contrast, local control for rural districts yielded the highest unfavorable scores regarding equity, with 29 districts incapable of funding the APM. The range of $4,633.89 (93:1) was the widest in the distribution. Inequity soared under the need model, indicating the 203 (90%) districts unable to approach the estimated need of $611.30. Consistent with urban schools and the state in general, local responsibility for financing facility needs was highly inequitable, as rural districts were unable to satisfy equity principles, despite the effect of extreme wealth in a few districts on the mean wealth per pupil.

Rural and urban areas of the state experienced significant difficulty funding the estimated need model. Although the need model may be criticized as an estimation technique, neither can a strong case be made in favor of average practice as a good definition of adequacy because practice is necessarily defined by the operation of limited resources within a competitive environment. The sufficiency of an average practice probably cannot be accurately guaged, but in states like Kansas which operate under cash basis laws and relatively restrictive debt limitations, average practice almost certainly

TABLE 4.4

ADEQUACY AND EQUITY OF FOUR METHODS
OF FUNDING FACILITIES
RURAL SUMMARY

Measure	Local Control		Full State Funding		Percentage Equalized		50/50 Grant	
	APM	ENM	APM	ENM	APM	ENM	APM	ENM
U.R.	$4,633.89	$4,633.89	$0	$0	$0	$0	$4,633.89	$4,633.89
R.R.	$854.75	$854.75	$0	$0	$0	$0	$854.75	$854.75
F.R.R.	9.2	9.2	0.0	0.0	0.0	0.0	4.60	4.60
R.M.D.	.75	1.04	0.0	0.0	0.0	0.0	.38	.52
C.V.	.65	.91	0.0	0.0	0.0	0.0	.32	.46
McLoone	.26	.007	1.00	1.00	1.00	1.00	.52	.004
N below mean	29	203	0	0	0	0	40	102

FTE < 1,000
N= 222

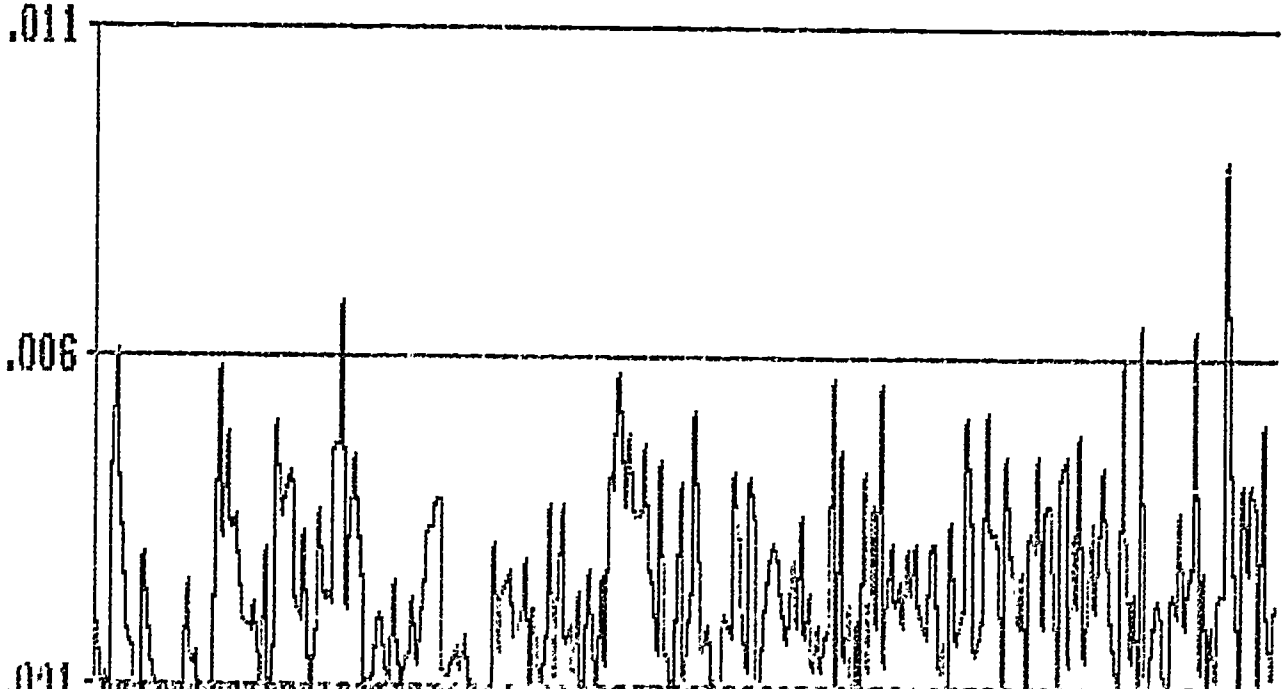
APM= Average Practice Model
ENM= Estimated Need Model
U.R.= unrestricted range
R.R.= restricted range
F.R.R.= federal range ratio
R.M.D.= relative mean deviation
C.V.= coefficient of variation
McLoone= McLoone Index

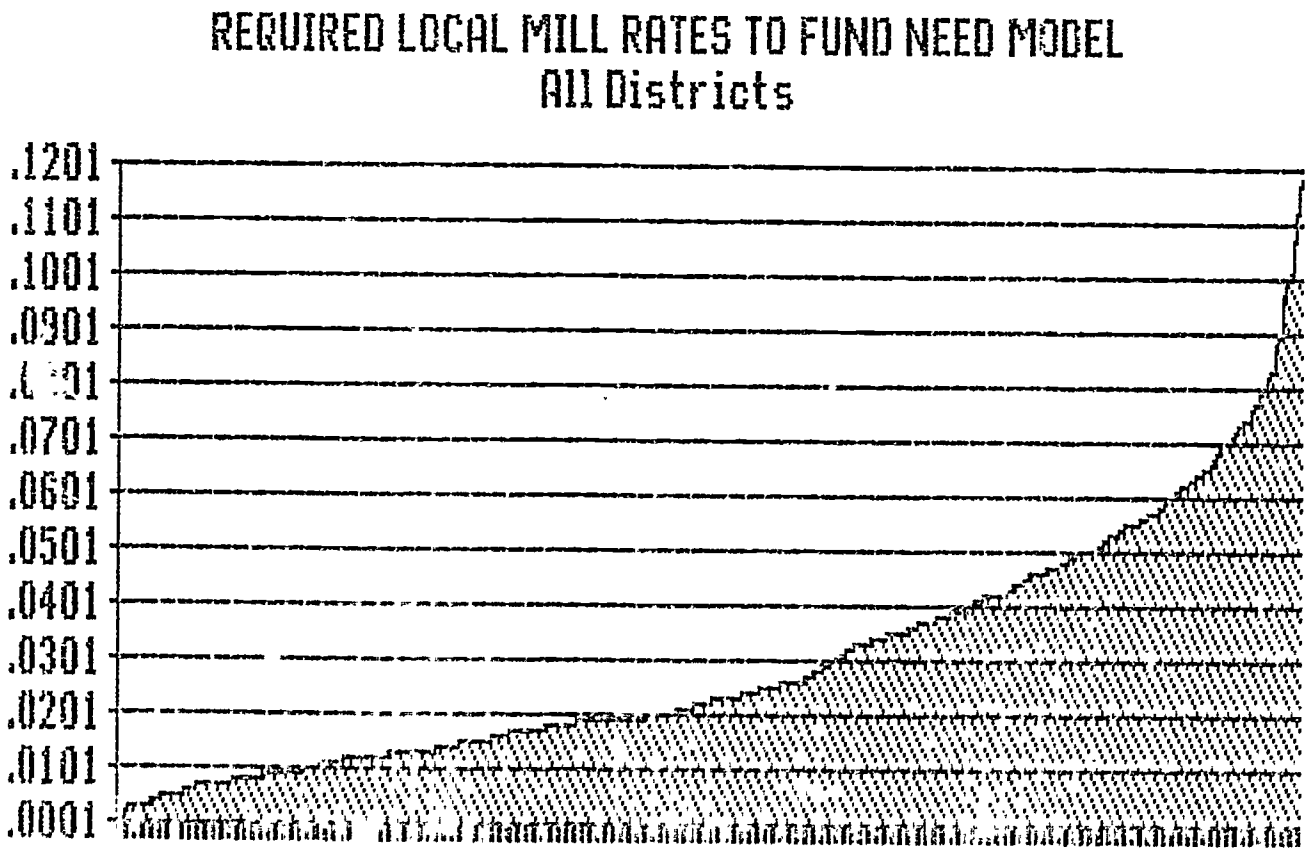
TABLE 4.5
REQUIRED LOCAL MILL RATE
LOCAL CONTROL MODEL

	APM Mills	Percent Difference High to Low	ENM Mills	Percent Difference High to Low	Percent Difference APM to ENM
State High	.00896	8960.00%	.11827	12449.47%	1319.98%
State Low	.0001		.00095		950.00%
Rural High	.00896	8960.00%	.08907	9375.79%	994.08%
Rural Low	.0001		.00095		950.00%
Urban High	.00684	2442.86%	.11827	172.65%	1729.09%
Rural Low	.00028		.00479		1710.71%

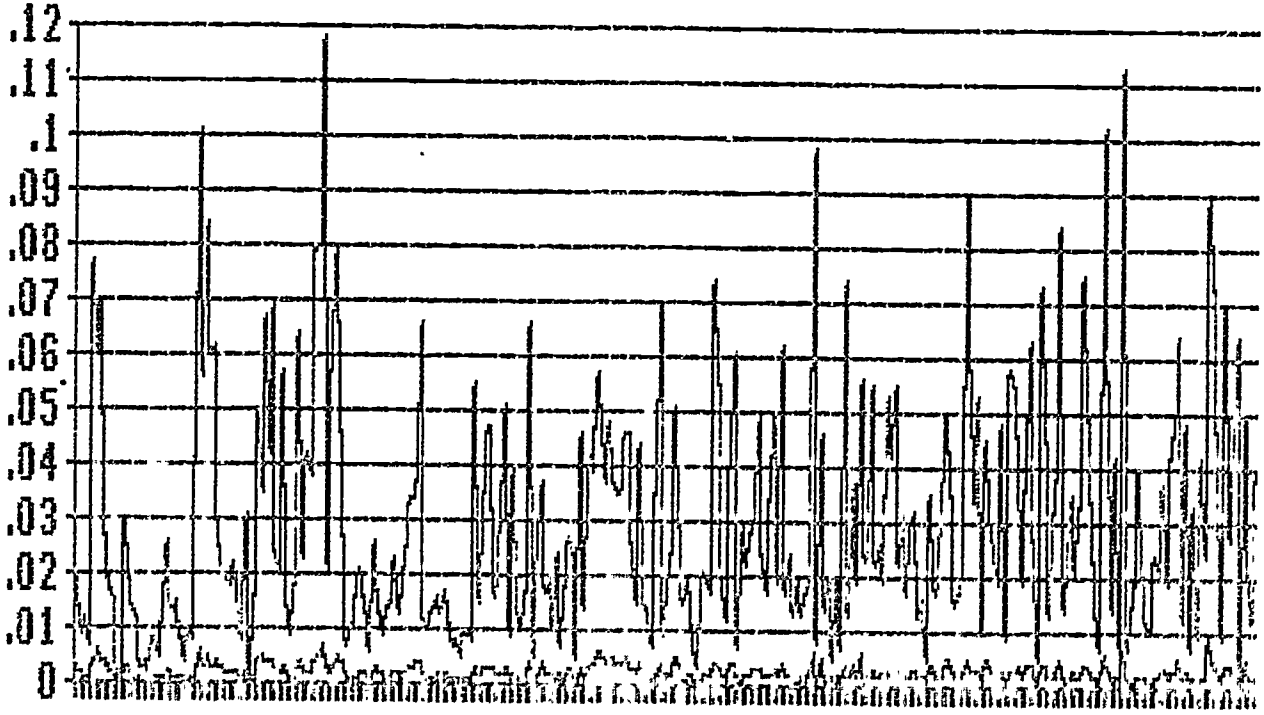
APM Mills: mill rate required to fund the average practice model.
ENM Mills: mill rate required to fund the estimated need model.

REQUIRED LOCAL MILL RATE TO FUND STATE APM
All Districts




REQUIRED LOCAL MILL RATES TO FUND NEED MODEL
All Districts
.1201
.1101
.1001
.0901
.0701
.0601
.0501
.0401
.0301
.0201
.0101
.0001

REQUIRED LOCAL MILL RATES TO FUND APM AND NEED
All Districts on Both Measures



underestimates need. The estimated need model suggests that until needs are known with absolute certainty, the ENM offers the best estimate of current conditions and serves as a yardstick against which principles of adequacy and equity can be measured. Given the amounts at stake and estimations of need found in other states, the ENM provides a conservative and reasonable alternative to estimation limitations.

Significant differences and commonalities between rural and urban areas of the state were found under the total local method for financing facility needs. Differences lay in wide variations of wealth among rural communities which forced the width of the distribution. The appearance of wealth in rural districts, however, was not upheld because the greatest degree of inequity under both the APM and ENM existed in rural districts. In comparing rural and urban districts on the APM, only rural districts, however, lay below average practice. In contrast, a higher proportion of rural districts was below the ENM, indicating that the state's wealth is concentrated in a very small number of districts.

Commonalities are probably more striking than differences because all districts operate under the same limitations which exacerbate the effects of local wealth. The most obvious commonality is that wealth relates to ability and that the effect of wealth on facilities results in great disparity. Research shows that wealth relates positively to facility needs. The most important observation thus become that wealth, facility conditions, and needs are positively linked, and that equity is uniformly violated under total local control where nearly all districts in the state are unable to fund estimated needs.

Results of Statistical Analysis: Full State Funding

Alternative models allow comparison among competing choices. Because choices must be made, models should allow for diverse representation in order to maximize their usefulness.

Full state funding is an option which has been tried by very few states and with limited success. Full state funding presupposes several conditions, all of which function in the context of values, politics, and government. As it operates here, full state funding is preserved as nearly neutral as possible, with the caveat that for contrast, excess wealth recapture was

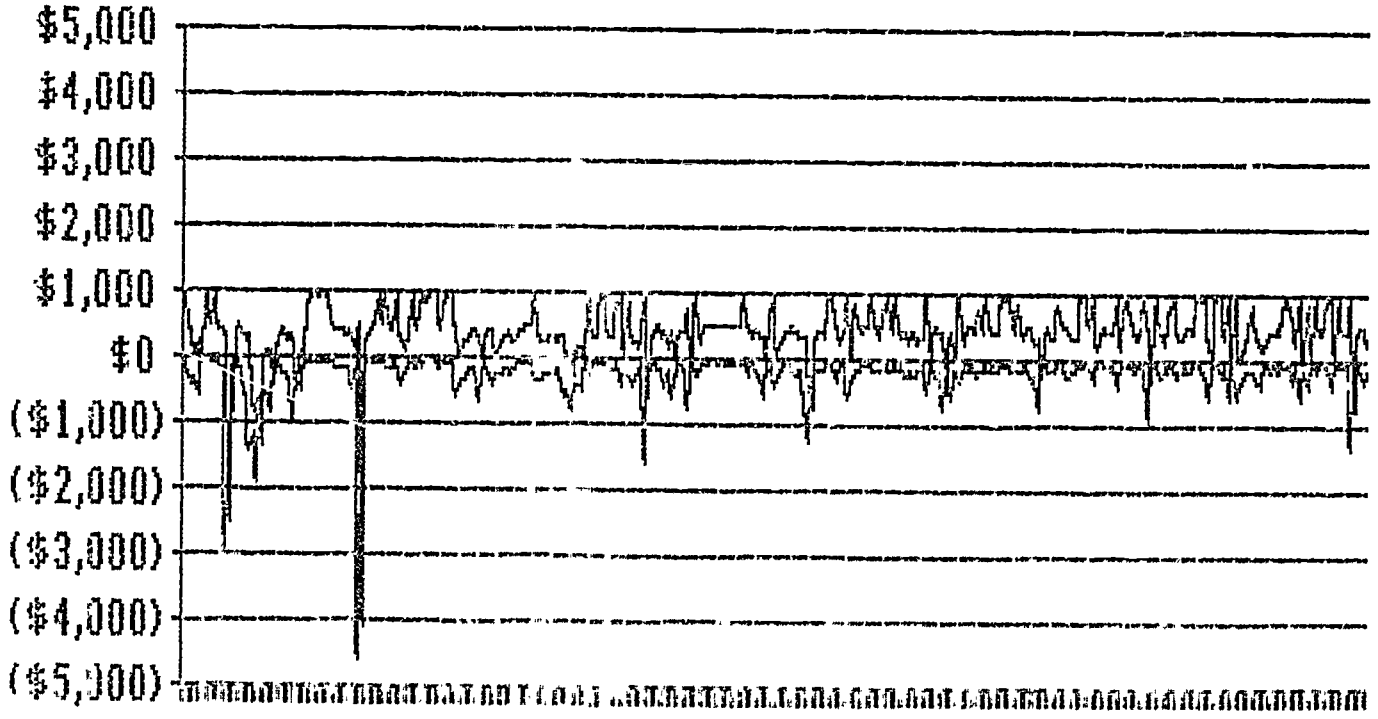
included.

The objective was once again to fund the average practice model (APM) and estimated need model (ENM). Results in Tables 4.2, 4.3, and 4.4 represent a marked contrast to the local control option. While range measures do not change for raw wealth data, the net effect of state revenue collection under uniform levy conditions utterly negated tax base disparity. Statistical achievement of equity occurred as the state levies, collects, and administers facility funding under completely uniform conditions.

Consequently, in full state funding the issues quickly depart from achievement of adequacy and equity and turn to acceptability of implications inherent in full state funding. A sensible consideration also questions state and local district costs resulting from statewide tax collections. Effects of recapture built into the model in Table 4.6 illustrate that if the state were to assume responsibility for facility finance at the APM, a revenue windfall would accrue to the state in excess of $57 million. In fact, only 30 percent of districts would actually benefit by full state funding while the remainder would pay in higher revenues than would be returned in state aid. In contrast, if the need model were funded, a shortfall of nearly $300 million would occur, with most districts receiving aid which exceeded their contribution. Because average practice is questionably low and because of excess wealth in a few districts, difficult economic and political decisions would be required about how full state funding would be defined for the state.

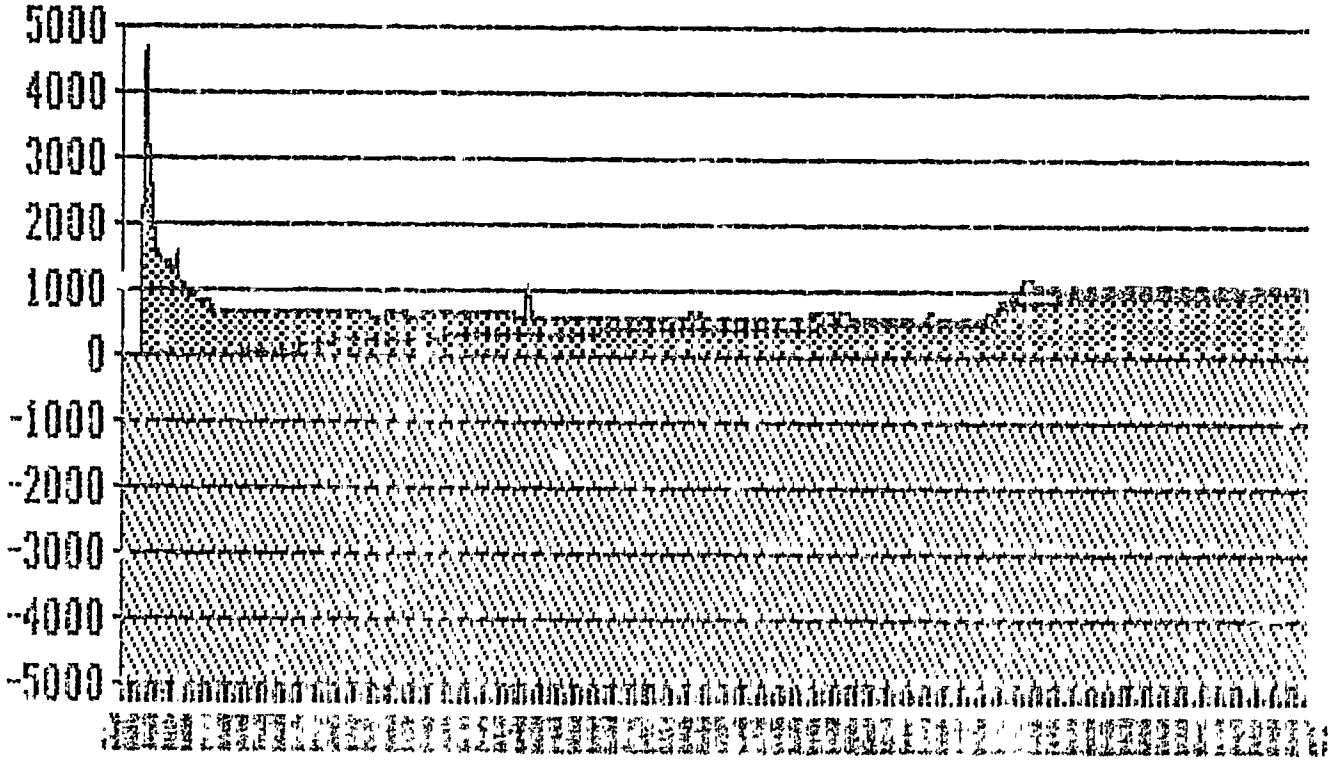
The features of plans by which full state funding might occur are adjustable without limit. Clearly, recapture represents a drastic departure from tradition and is in all

FULL STATE FUNDING
State Cost or Recapture at APM



(6=Recapture

FULL STATE FUNDING
Aid or Recapture at Need Model



Y) = Recapture

likelihood a highly unpalatable alternative. In practice, full state funding has frequently resulted in a high level of aid mixed with local effort to ease the state's burden and to retain local incentive. Although $381 million in estimated need is comparable to the identified needs of other states, it nonetheless represents a sizeable increase in revenue which must be generated and would likely lead to some ratio less than complete state assumption. While those decisions are legislative, assessment under equity principles indicates that the model meets all conditions of equity achievement and represents one qualifying alternative to reducing current inequities.

Results of Statistical Analysis: Percentage Equalized Grant

The third model represented a different set of value choices. A percentage equalized grant provides sharp contrast to full state funding, and its operation in this research was designed to be consistent with the state's general fund equalization formula by providing aid in inverse relationship to ability to pay. In contrast to full state funding, ability is the critical issue which triggers variable assistance as districts receive increasing aid as local ability declines. Because the state's general fund formula does not truly generate excess wealth, a stop-loss provision was built into the model whereby no recapture of excess wealth by the state would occur.

The objective was again to fund the average practice model (APM) and estimated need model (ENM), and statistical measurement achieved perfect equity. While range measures remained unchanged in raw wealth data, the net effect of state revenue collection under uniform levy conditions negated variations in local resources. Equity was achieved as the state levied, collected, and administered facility funding under completely uniform taxing conditions.

The flow of aid to school districts varied tightly with ability to pay. Table 4.6 indicates that only one district under the APM would be unable to fully fund itself under

TABLE 4.6

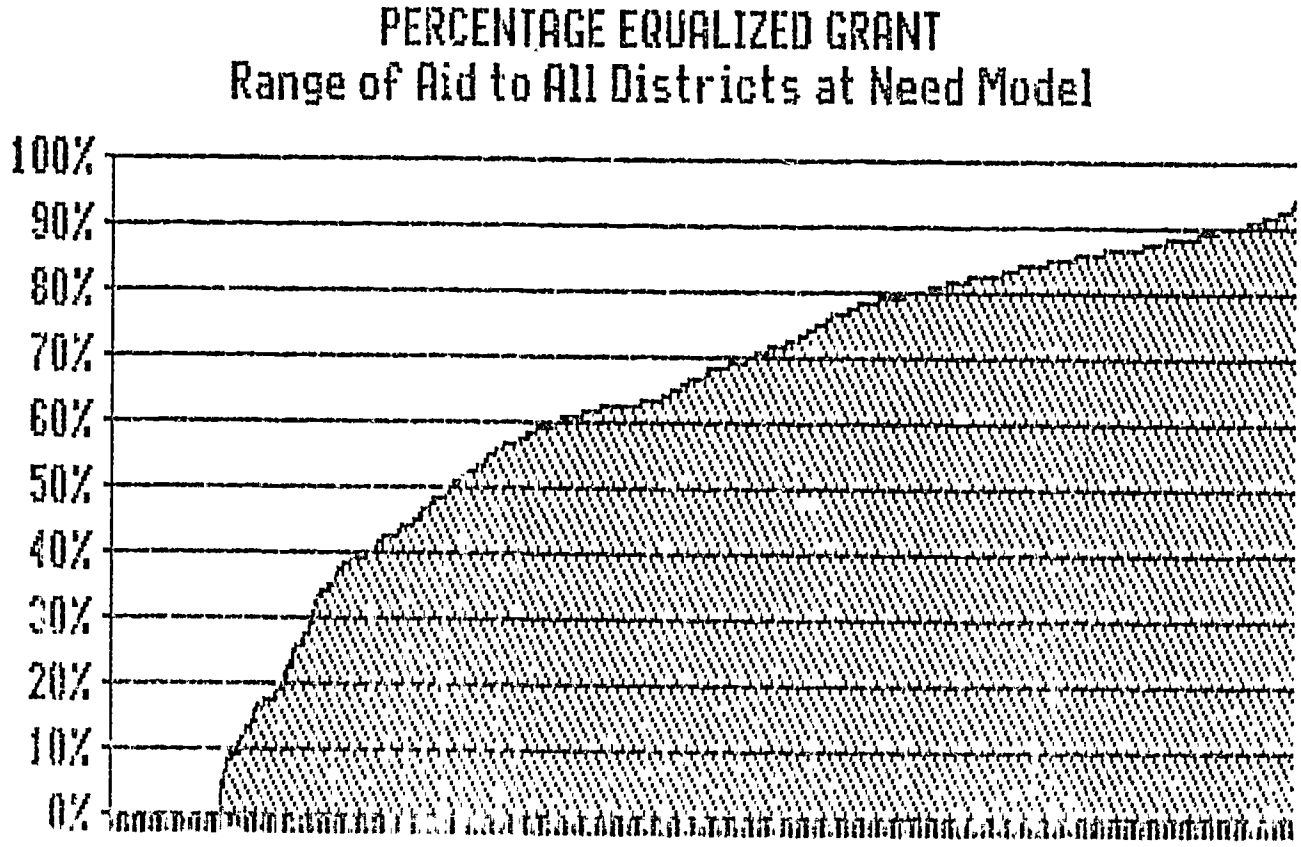
STATE COSTS
TO FUND THE FOUR ALTERNATIVES

	Total Local Control		Full State Funding	
	APM	ENM	APM	ENM
Required Revenue	24,588,939	381,000,000	24,588,939	381,000,000
Available Revenue	81,824,591	81,824,591	81,824,591	81,824,591
Net Revenue Change	57,235,652	(299,175,409)	57,235,652	(299,175,409)
State Cost	0	0	(57,235,632)	299,175,409
Percent Aid	0	0	100% (30%)	100%
N aid districts	0	0	303	303

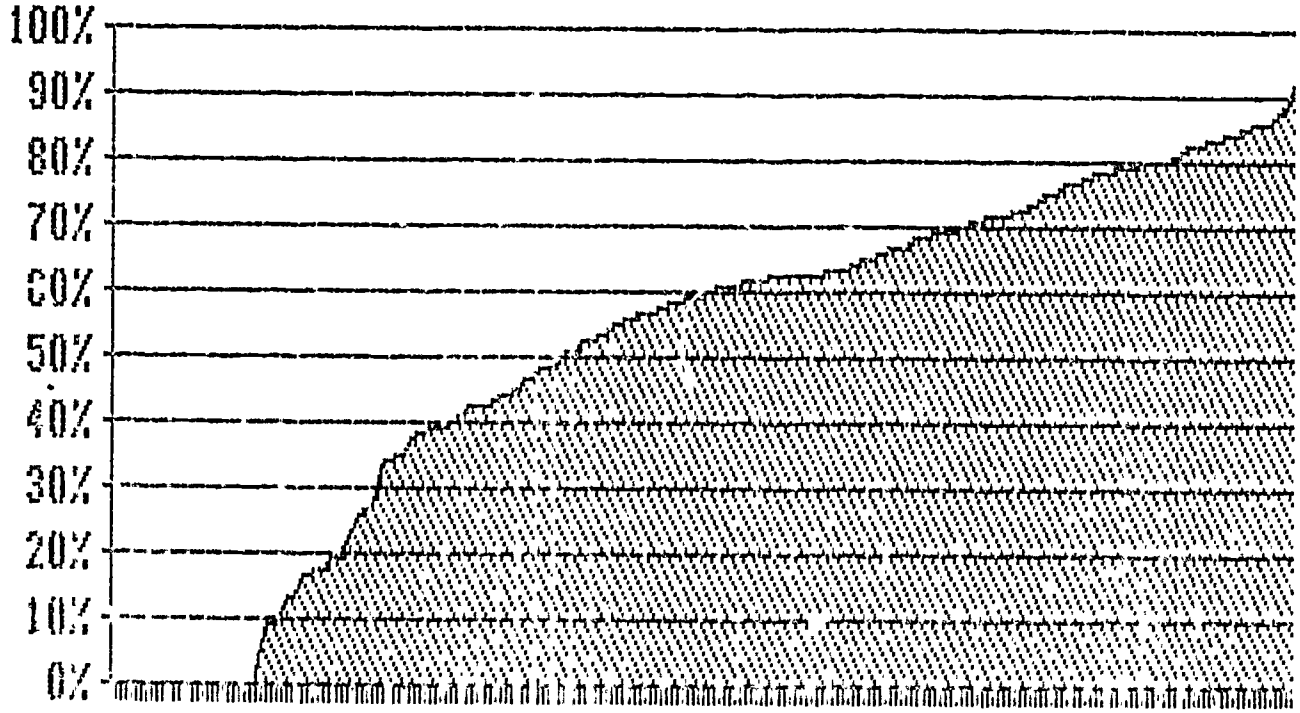
	Equalization		50/50 Grant	
	APM	ENM	APM	ENM
Required Revenue	24,588,939	381,000,000	24,588,939	381,000,000
	81,824,591	81,824,591	94,119,060	94,119,060 **
Available Revenue	57,235,632	(299,175,409)	81,824,591	(274,586,470)
State Cost	8,182.40 *	299,175,409	24,588,939	24,588,939
Net Revenue Change	.00001	79%	50%	50%
N aid districts	1	274	15	142

* One district receives at at .003%.

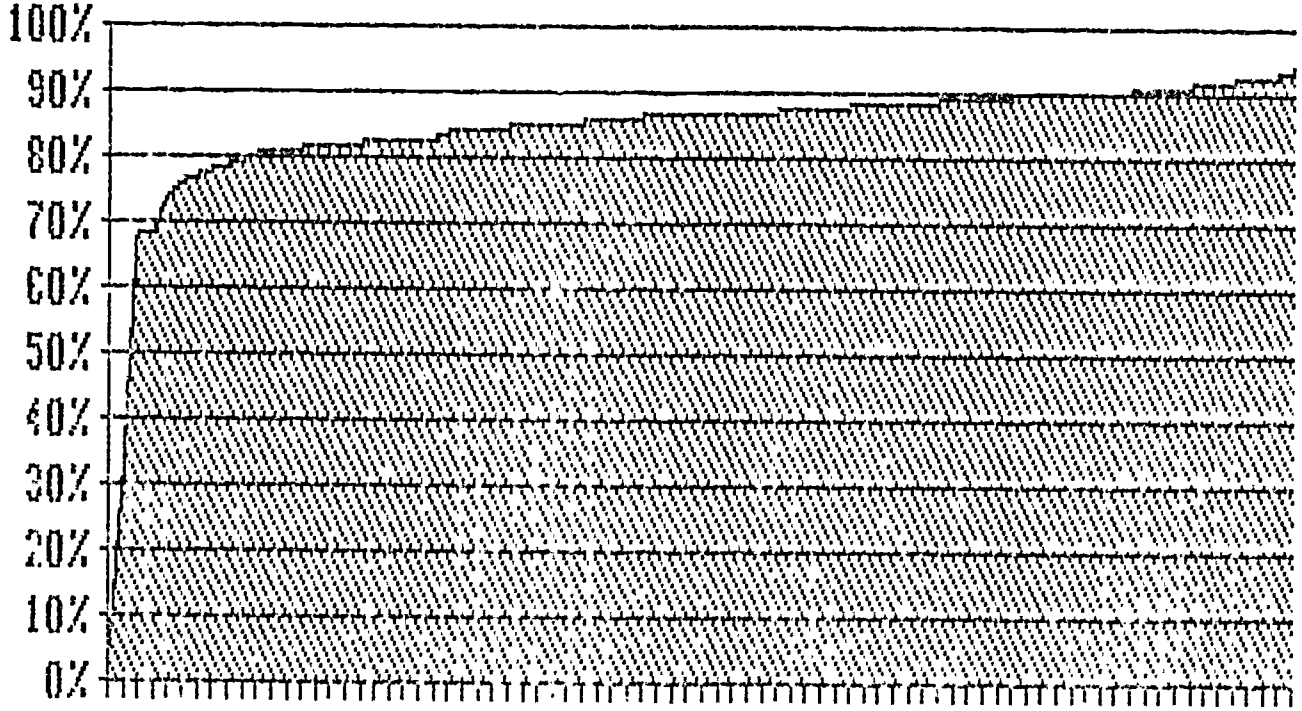
** Local wealth yields $81,824,591. State contributes half of required aid at $12,294,469. $81,824,591 + 12,294,469-= $94,119,060.


PERCENTAGE EQUALIZED GRANT
Range of Aid to All Districts at Need Model
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%

PERCENTAGE EQUALIZED GRANT
Range of Aid to Rural Districts at Need Model



PERCENTAGE EQUALIZED GRANT
Range of Aid to Urban Districts at Need Model



uniform taxing conditions, resulting in a cost to the state of roughly $8,000 and accounting for the fraction of the distribution qualifying for aid. Under the APM, resource sufficiency was technically satisfied, as all districts levied equally, received the APM, and were eligible for aid if they qualified. Substantively, however, the same questions about the adequacy of the APM remained, and analysis under the need model immediately qualified 274 districts (90%) for an average aid level of 79 percent. State costs under the ENM were significant with a net cost of nearly $300 million as districts would actually receive aid as high as 79 percent.

The percentage equalized method met the criteria for achieving resource accessibility, wealth neutrality, and uniform effort. Adjustable in a continuum between zero and 100 percent local/state partnership, equalization presents a method philosophically consistent with the state's equalization formula through which the state may improve equity conditions for funding facilities.

Results of Statistical Analysis: 50/50 State Grant

Finally, a flat 50/50 cost-share grant by the state to local school districts was examined. Obviously a middle ground, the cost-share represents an easily controlled introduction of state assistance into the problems of funding local school facilities.

Flat grants also represent value choices. A flat grant accepts state responsibility, but suggests a less complicated approach to determining the level of state support. Under the conditions of this research, the flat grant provides introduction of state aid on neutral grounds without the perceived disadvantage of recapture found in full state funding, appeases the need for the state to assist all districts, and avoids the open-end nature of true power equalization. By capping state participation at 50 percent, an equal partnership has been established, leaving the state and local district free to influence remaining conditions such as local initiative to reduce local costs by the amount of state

participation or to enhance the building program through the use of state aid as a supplemental grant.

The objective was once again to fund the average practice model (APM) and estimated need model (ENM). Because of limited state participation which is insensitive to actual achievement of equity, the 50/50 cost grant roughly halved the inequity found under the total local control model. Introducing state aid reduced local fiscal stress by the equivalent amount, but indicated that while inadequacy could be reduced, equity could not be achieved by a flat grant. Table 4.2 indicates that 15 districts (49.5%) of the state's districts still would be unable to fund the APM, and 142 (46.7%) districts could not approximate the need model.

While equalization and full state funding eradicated distinctions between urban and rural districts, the flat grant preserved the differences found under total local control. Under the flat grant, urban districts were slightly more disadvantaged. Variability of equity, however, was much greater among rural districts, consistent with evidence from the total local control data which suggested that rural districts suffer from the best and worst of fiscal capacity. State costs were less for the flat grant than for either full state or equalized funding because of the 50 percent participation limit which capped state costs at roughly $24.5 million compared to nearly $300 million under equalization.

The net result of introducing state aid to facility funding through the flat grant was that districts were able to add state resources to facility projects which ultimately improved achievement of equity. The neutralizing effect, however, was that while inadequacy was significantly reduced on a dollar basis, the troublesome inequities inherent in wealth variations were incrementally preserved. Flat grants were unable to aid equity achievement.

Summary

The funding alternatives represent only four possible choices. The range of possible methods for state participation is nearly limitless because the basic plans could be modified endlessly. Other options could be selected including state loans, building authorities, and other private capital schema. The methods chosen for evaluation represent genuine state involvement consistent with the classification in Table 1.1, whereby only those methods resulting in true benefit to local districts were described as true grant-in-aid plans.

While the range of choices is rich, the issue must ultimately return first to the adequacy of any distribution scheme, and secondly to its method for distributing aid. The evidence clearly indicates that the present method for funding facilities in Kansas and other states which do not assist local districts routinely violates equity and stands in jeopardy if it is determined that assumptions about Serrano and capital outlay were flawed. The evidence also indicates that there are differences between rural and urban districts- differences which lie in both magnitude and types of problems each subunit experiences. In the final analysis, the simple fact remains that no matter how complex state, rural, or urban issues may become, the problems and solutions lie in the availability of adequate and equitable resources to effectively address student needs. For Kansas, the results are alarming, because the APM almost certainly fails the adequacy and equity test, and the ENM is unarguably violated on all conditions of adequacy and equity.

The importance of resources in determining the outcomes of education is overwhelmingly evident because wealthier school districts tend to have better schools[60] and better school buildings. Comments by the courts and the increasing number of legal challenges citing concerns about facilities seem to indicate that both rural and urban school systems are experiencing negative limitations of local wealth in providing and

maintaining adequate and equitable facilities. These issues confirm this analysis which suggests that policy makers and school leaders should be concerned for the future of how school facility needs will be resolved.

FOOTNOTES

49. Ibid., David C. Thompson et al. State Involvement in Capital Outlay Financing: Policy Options for the Future. Kansas State University Center for Extended Services, March 1988.

50. Ibid., Robert Berne and Leanna Stiefel. The Measurement of Equity in School Finance: Conceptual, Methodological, and Empirical Dimensions. Baltimore: Johns Hopkins University Press, 1984.

51. L. S. Friedman. "The Ambiguity of Serrano: Two Concepts of Wealth Neutrality." Hastings Constitutional Law Quarterly, 1977.

52. Ibid., David S. Honeyman and G. Kent Stewart. "Capital Fund Mechanisms and the Condition of Facilities in Rural and Small Schools." Research in Rural Education, v24, n1, Winter 1985.

53. Ibid., Mary E. Devin. "Deferred Repair and Maintenance in Selected Kansas Schools." Unpub. Ed.D dissertation, Kansas State University, 1985.

54. Ibid., Robert Berne and Leanna Stiefel. The Measurement of Equity in School Finance: Conceptual, Methodological, and Empirical Dimensions. Baltimore: Johns Hopkins University Press, 1984.

55. Ibid., David C. Thompson et al. State Involvement in Capital Outlay Financing: Policy Options for the Future. Kansas State University Center for Extended Services, March 1988.

56. Ibid., David C. Thompson et al. State Involvement in Capital Outlay Financing: Policy Options for the Future. Kansas State University Center for Extended Services, March 1988.

57. In examining the state, it is important to recognize the primarily rural profile in which 27 percent of districts contain 75 percent of pupil enrollments. The urban community tax bases are broader, containing a mixture of all the foregoing. Additionally, urban real estate comprised 8.2 percent of the tax base while another 11 percent indicated that there was no single outstanding feature which characterized their tax bases.

58. Ibid., David C. Thompson et al. State Involvement in Capital Outlay Financing: Policy Options for the Future. Kansas State University Center for Extended Services, March 1988.

59. Ibid., John A. Thompson. "Funding and Spending in Paradise: Notes on the Hawaii Model of School Finance." Journal of Education Finance, v12, n3, Fall 1986.

60. MacPhail-Wilcox, Bettye and King, Richard A. "Production Functions Revisited in the Context of Educational Reform." Journal of Education Finance, v12, n2, Fall 1986.

CHAPTER 5

POLICY IMPLICATIONS FOR EQUITY UNDER STATE PARTICIPATION

Analysis

Financing public schools has been drastically altered since the turn of the century. But despite the changes, many present characteristics are recent developments. Education has become much larger than the local community, and the effect of school finance decisions are felt at all levels and with lasting impact. When dealing with one of the largest expenditures of state government, decisions made in local board rooms, state legislatures, and other levels of government have a profound influence on the future. Policies leading to change or decisions to maintain the status quo should be made with utmost deliberation and on the basis of solid evidence. To formulate effective policy, synthesis must draw the elements together, provide discussion of substantive effects of research, and consider implications which may affect future policy directions.

Conclusions and implications for financing facilities presented by this evidence are powerful. Answers to the questions which began this policy analysis can provide needed evidence which may be used to identify future needs and to make recommendations which policy makers and school leaders can use to assist with informed decisions.

Why is there a concern for financing facilities? The concern exists because there is national evidence of an overwhelming inability of local districts to fund capital outlay at levels needed to keep buildings adequate, safe, and accessible to all students and because of concern that such issues may become positively linked to court requirements for adequacy and equity in equal educational opportunity. Urban and rural school buildings are deteriorating rapidly, and maintenance needs are increasing concomitantly. The average age of rural school buildings in the nation exceeds forty years, average deferred

maintenance exceeds $300,000 per building, and over one-half of districts report inadequate buildings. The large amounts of need found in individual states becomes nearly $18 billion for rural schools alone, and urban schools also have huge needs. Facilities, however, are receiving an increasingly smaller share of limited resources as capital outlay spending in proportion to total school expenditures has declined by nearly 50 percent nationally from 1970 to 1983.[61]

The reason for concern exists in all fifty states where the level of state support may need to be examined for adequacy and equity. It particularly exists for the 22 no-aid states because there is a troublesome relationship between local property wealth and ability to construct and maintain school buildings. School districts which report high levels of need are almost invariably dependent on bonding, and this relationship creates a cycle of insufficiency that cannot be broken within the district. That dependency will continue to be noted as advocacy increases regarding rural and urban issues resulting from narrow or eroding tax bases, exorbitant costs for high need populations, educational reform costs, changing demographics, and shifting patterns of influence. In an era when an increasingly expanded definition of equity has enveloped nearly all general fund expenditures, engendered huge special education mandates, and extended aid to transportation, it may be only a matter of time before the quiet criticism of courts becomes a direct mandate to include facilities in the definition of equal educational opportunity.

How do adequacy and equity apply? These twin concepts have been the conceptual and operational underpinnings of desirable educational practice. Their operation is sequential and interdependent by suggesting that adequacy is a natural first priority, followed by concern for distribution. Their definition frames school finance reform and states that students should have access to resources to meet their individual needs regardless of residence. Furthermore, taxpayers have a right to expect the state to support education

to the extent that local wealth does not adversely affect educational quality. By definition, adequacy in all states is thus inherently suspect until examined for sufficient levels of resources. In the 22 no-aid states, however, adequacy is unavoidably conditioned by residence. In the unlikely event that all districts in a no-aid state possess wealth in sufficient supply to meet a carefully constructed estimate of need, then adequacy could conceivably be satisfied. But reality almost certainly cancels that possibility, leaving no-aid states in a doubtful position toward adequacy.

Equity should follow adequacy, and by definition implies equal access to adequate resources. But because wealth varies, adjustment is required to impede the natural distribution. In general school finance reform, that adjustment has been included in state formulas which distribute aid to school districts, either in a high level foundation plan or through an equalization formula sensitive to varying conditions of wealth. The existence of 22 no-aid states, however, precludes that possibility. The reality in no-aid states is that equity certainly does not occur for either students or taxpayers and that adequacy is surely suspect.

Are there significant legal issues which may affect facility finance in the future? The question underlies this policy analysis, and the clear indication is that multiple legal issues relating to facilities may emerge. While notice taken by the courts of facility wealth dependency has yet to become a fully developed issue, the potential is enhanced by a long history of court criticism, emerging rural and urban advocacy, and growing needs of school districts to repair and replace facilities. Court criticisms have increased in sharpness and frequency, and the growing significance attached to facilities in Pauley,[62] Abbott,[63] Jenkins,[64] Edgewood [65] and others signal the latent power of capital outlay as a justiciable concern. Rural and urban advocacy stresses the growing needs of different constituencies, and their needs are borne out by research indicating billions in deficient or inadequate facilities. If adequacy is a legitimate legal issue, then it is highly suspect

where local property wealth frequently underfunds average practice models and cannot come close to funding estimated facility needs. It then follows that if adequacy cannot be met and is a prerequisite of equity, then equity is almost certainly violated. For the 22 states which provide no meaningful assistance to capital outlay, adequacy and equity are clearly pressing legal issues which may profoundly affect facility finance in the future. For the balance of states, examination of levels of assistance and careful consideration of distribution schemes is highly prudent.

How are other states addressing problems associated with funding facilities? The answer is simply that most states have statutorily recognized that facilities require resources, that some have genuinely attempted to assist local communities with their needs, but that a significant number have declined to participate. The legal mechanisms addressing facility needs range from great potential for achieving equity to little effect. Mechanisms granting true aid by reducing local costs or resulting in increased local choice about facility options provide the greatest progress toward equity, but their final impact is conditioned by the level of support. Mechanisms such as state loans generally do not effectively address either true adequacy or equity concerns, except as favorable security ratings or lower interest costs may provide some small benefit. Finally, while mechanisms for introducing private capital into facility projects may ease restrictive debt limits, they may actually have a greater negative effect on adequacy and equity because of the costs associated with private funding. For states which provide genuine assistance to facilities, adequacy and equity are achieved proportionally to the extent to which genuine need is satisfied. For no-aid states, little progress toward either adequacy or equity can be found.

Are there substantive differences between rural and urban areas? There appear to be differences in both magnitude and direction of the problems encountered by rural and urban school districts. It is probable that the rural and urban experience in Kansas is

substantially specific to the state because of its highly rural complexion where classic urban stress is relatively nonexistent. Its rural problems, however, may be typical of needs found in other rural states, and the Kansas data suggest a high degree of consistency between the state's needs and problems reported from similar states. The problems of rural states point to declining wealth, narrow tax base, a backlog of maintenance, and suspect relationships between tax base, facilities, educational programs, and equal opportunity. Kansas' experience where taxable wealth ratios exceed 93:1 is not atypical of rural states. Since many states rely on local property wealth to fund facilities, the adequacy and equity deficiencies found in Kansas' rural districts where extremes of wealth and need exist may suggest the breadth of rural problems in many other states.

Urban districts also face declining wealth and maintenance backlog, but the direction is opposite as problems are exacerbated by escalating costs related to special needs and problems created by large populations. Urban districts are frequently disfavored by general aid finance mechanisms which fail to recognize disproportionate urban costs, and the shortfall diverts limited resources from facility needs.

Overwhelming common problems shared by rural and urban districts relate to the simple fact that no matter how different rural or urban issues may become, the lack of adequate resources to effectively address student needs is a unifying theme. For the no-aid states, the additional common thread is dependence on the local tax base for facilities. The final analysis suggests that absent a high degree of wealth in all districts, adequacy and equity will not be satisfactorily achieved without effective policy implementation or court intervention.

What are the dimensions of the problem in Kansas? Compared to other states, the needs are typical. The age and condition of buildings throughout the state indicate a growing problem which districts will experience as they face the future. Although many

older buildings are well preserved, age and condition must be vital concerns for communities and the state because of costs for replacement and modernization and the potential that such facilities may have for adversely affecting teaching and learning. The concern is even more evident when nearly 20 percent of buildings exceed fifty years of age and the physical condition is described as fair or poor in nearly 22 percent of the state's facilities. With 80 percent of districts levying for capital outlay and over half levying for debt retirement, there are significant needs for repair, maintenance, and replacement of facilities. Unfortunately, unfavorable economic conditions tend to aggravate the situation by accelerating maintenance and improvement deferral. The $381 million in deferred maintenance represents a sum which will increase in the future if unaddressed. The likelihood that solutions will emerge without significant state level policy changes is remote.

The evidence clearly indicates that Kansas school districts have varying levels of ability to pay for facilities, and disparities remain when the extremes are removed. The variation is problematic because analysis has consistently indicated that wealth has been a primary determinant of fiscal ability and actual condition of facilities. The evidence places a responsibility on the state to examine itself in relation to capital improvement needs in school districts.

How does current practice compare to facility needs? The evidence suggests that practice has fallen far short of need in many states. The enormous funds required in many states to meet facility needs point to problems that have accumulated over many years. Limited resources have forced districts to channel funds toward instructional priorities, resulting in neglect of facility needs. Average practice has been affected by limited resources, voter resistance to bond issues, and the operation of law in many states where low debt ceilings, dependence on local wealth, and mill rate caps have reduced district abilities to spend for facility improvements. Facilities have suffered from an average

practice model which has been conditioned by economics rather than by desirable educational practice.

In contrast, facility needs have far outstripped local ability to pay. The results are typified in every state by estimates of overextension which would result if local districts were to fully meet their needs. In Kansas, meeting genuine needs would require a statewide tax levy of nearly 34 mills, an increase of nearly 500 percent above the current average practice model.

If common models for funding facilities in the fifty states were implemented in Kansas, what would be the rank order of resource adequacy and equity achievement? Adequacy is relatively independent of the chosen vehicle- it operates solely on sufficient revenue. But the selection and features of models for implementation ultimately determine equity achievement, and the real benefit to achieving equity operates in tandem with the first condition of adequate levels of resources. Models which achieve equity do so in varying degrees depending on how well structural integrity is preserved.

The basic models tested here indicate that full state funding and percentage equalized grants achieve the highest level of equity. The final determination of equity achievement lies in how the models are structured in relation to local tax effort and the state's participation ratio. If full state funding is approached from basic purity or uses a high level foundation approach, equity will likely be satisfied so long as the support level approximates need. If percentage equalization is allowed to operate without restrictive caps and is based on actual need, equity will be achieved in a partnership sensitive to local ability to pay. In contrast, although a flat grant does operate to reduce local inadequacy to fund a target, a flat grant will not reduce inequity because it preserves or exacerbates distributional differences. As a consequence, the effect of a flat grant is greater on adequacy than upon equity.

What would be the estimated costs to the state of each alternative funding model examined? State costs are a function of need determinations and must be found for each individual state. Costs are a function of the level of state participation and the type of plan chosen. It may be expected that if need is the equity target to be funded, the full state and percentage equalized options will result in greater costs to the state and that districts will experience greater or lesser benefit in direct proportion to local ability to pay. If the need model for Kansas were to be funded under either full state or equalization models, state costs would be roughly equivalent at approximately $300 million, but the political conditions would be vastly different. Thus it appears that equity presents equal costs, and the question becomes how to structure an acceptable climate. The first condition becomes the decision whether or not to fully fund needs, followed by policy decisions on how to distribute the revenue equitably.

If current funding is not adequate or equitable, how should it occur? The state's characteristics are neither adequate nor equitable when evaluated for resource accessibility, student, and taxpayer wealth neutrality. How policy should be structured depends on the political climate and constituent preferences. Selection of funding methods is a legislative prerogative which is shaped and guided by court principles which have emerged over time.

How state assistance to facilities should occur in each state must remain a value choice which cannot be externally imposed. For Kansas, it appears highly unlikely that any mechanism which removes local preference from decision structures could emerge. General fund expenditures in the state are controlled by an equalization formula based on guaranteed yield and adjustments for special factors. For Kansas, it would appear that the two simplest and most consistent options would include incorporating aid for facility needs directly into the equalization formula as an addition to the general fund or to apply

a separate wealth-sensitive formula to the existing capital outlay and debt service accounts. For other states, the range of choices might be similarly influenced.

Although the immediacy and certainty of state involvement in capital outlay finance is not predictable, the trend in many states has been to at least become somewhat involved in capital outlay financing, and in some instances like Alaska, Hawaii, Maryland, and Pennsylvania, state governments have become substantially involved. The number of states who do provide some form of true assistance (apart from state loans) is larger than those who do not, and the result is a greater degree of equity and reduced vulnerability to legal challenges. It seems particularly prudent for states to observe the conditions involving facilities and to assess the degree of vulnerability in the event that challenges do emerge.

The courts have exhibited a concern for facilities as an element of equity. Whether the issue emerges or dwindles is not known. It is clear, however, that facilities are assuming a new importance and that challenges to school finance schemes will continue to press the courts. Facilities appear to occupy an important part of the expanding definition of adequacy and equity.

FOOTNOTES

61. Richard Salmon and William Wilkerson. "Financing Public School Facilities," in Managing Limited Resources: New Demands on Public School Management. L. Dean Webb and Van D. Mueller (eds.). Fifth Annual Yearbook of the American Education Finance Association. New York: Ballinger, 1984.

62. Id., Pauley v Kelly, 255 S.E.2d 859, (W. Va. 1979); later changed to Pauley v Bailey, 324 S.E.2d 128, (1982); Pauley v Gainer, 353 S.E.2d 318.

63. Id., Abbott v Burke, OAL Docket No. EDU 5581-85, Agency Docket Number 307-8/85 (unpublished).

64. Id., Jenkins v State of Missouri. W.D.Mo. 639 FSupp 19, aff as mod 807 F2d 657, cert den 108 SCt 70, 98 LEd2d 34 and Kansas City, Missouri School Dist v Missouri, 108 SCt 70, 98 LEd 2d 34.

65. Id., Edgewood Independent School District v Kirby. No. 362,516 (District Court of Travis County, 250th Judicial District of Texas, June 1, 1987).

CHAPTER 6

CHOICES FOR THE FUTURE: AN ACTION PLAN FOR KANSAS

The role of the state in local educational policy seems certain to increase in the future. Historical involvement of government in local affairs has been one of slowly increasing proportion, and the literature regarding bureaucracy supports the general notion that governments grow rather than diminish in authority. Given the historical reluctance on the part of government to voluntarily assume responsibility for financing education, knowledge of whether the encroachment on local option will be a gradual process or will first be tested in court is open to speculation. But because the opportunity for claims of inequity exist, recommendations which prudently advise states to assess their liabilities are quite useful.

Recommendations

We recommend that Kansas adopt a mechanism for granting aid to local school districts to assist in capital outlay funding including facility construction and maintenance. The issues we have examined points to strong evidence that court activity surrounding facility finance will increase in both directness and intensity and that the increase will ultimately result in court mandates to meaningfully equalize educational opportunity as defined by school facilities. As we have studied courts comments on methods of funding capital outlay, we are led to conclude that there is a substantial legal question if the concern is appropriately pressed.

We also recommend that Kansas adopt an aid mechanism consistent with the principles of equalization found in the general aid formulas now operational in many states including Kansas. Equalization principles provide a secure basis for court approval. It is further appropriate for the state to include an equalization scheme consistent with the School

District Equalization Act (SDEA). The SDEA is a logical vehicle for inclusion of aid to capital outlay since formulas for calculation of general state aid to local school districts could be adapted easily for capital improvement finance aid.

We further recommend that several critical features should become an integral part of any plan to assist facility finance in Kansas. These features would provide for the inclusion of most districts through increased levels of funding, and would address concerns about local effects inherent in any change. These features would require the state of Kansas to include provisions guaranteeing a high level of state participation, consider current local effort for facility financing, provide for continued local incentive and local control, assist with current debt service, and consider variables such as special needs, enrollment growth, sparsity, and emergencies.

There is generally concern that local control will diminish. While increased state control is likely, the benefits outweigh the detriments, particularly when a strong local and state partnership is built into the plan. Loss of local control is nebulous, and frequently strong local control is more perceived than real. School districts already are obligated to the state through bonding limitations based on assessed valuation, approval by the state architect's office for construction plans, and other guidelines which create a state/local partnership. In sum, the loss of local control has already largely occurred, and the introduction of state assistance would restore some balance in favor of local districts. The recommendations call, however, for concerted attention by policy makers to preserve the concept and the integrity of local control.

A second critical feature of this plan would ensure funds for existing debt service as well as for new projects. The benefits are numerous, including rewards for districts which have already taken ambitious steps toward improving educational facilities financed entirely by local effort. By providing aid to existing projects, the state would exhibit concern for districts which have previously extended themselves during a time when local

effort controlled the quality of facilities. By providing aid for financing new facilities, the state addresses emerging concerns regarding state liability for assisting local districts to provide the best educational program available within the limitations of the wealth of the entire state.

The third critical feature requires the state to recognize special needs, growth, sparsity, and emergencies. In developing a state plan for assistance to local districts, the collection of data should provide funds for districts which face unusual difficulties and address those concerns first. Such action is consistent with principles of logic and sound fiscal management by addressing critical needs before undertaking a regular program of assistance.

We further recommend that the state standardize a process to include a statewide project list which prioritizes needs and identifies cost projections, thereby maximizing the utility of project identification and fiscal constraints. These may be termed five-year or perhaps even ten-year capital improvement program plans. A process is mandatory which identifies critical needs, establishes methods for regularly aiding facility projects, and ensures effective identification of needs using realistic cost estimates. This allows for joining state revenue projections with anticipated facility needs well in advance of actual project scheduling and fiscal emcumbrances. A project approval list provides the state with an orderly plan by which local and state partnerships may be scheduled.

Finally, we recommend that the state establish two operational funds for assistance to local school districts. The first fund should tie directly to the immediate needs for school districts which are experiencing difficulties. Difficulties may be related to inability to pass a bond issue, to substandard facilities, or to facilities which fail to meet criteria for accessibility or other such features. Included should be funds in excess of insurance payments to correct losses by fire or natural disaster. Also, these may include districts which have expressed facility needs but are unable to locally fund a legislatively mandated

minimum budget per pupil. A critical needs fund to finance capital improvement projects which provides significant aid to deserving school districts would meet this criteria.

A corollary fund should also be established which systematically addresses long-range plans and capital improvement needs in school districts. Where a large number of districts are unable to fund an established average expenditure model and where large numbers of districts express unmet needs, the need to establish state funding is present. As a part of the recommendation, it should be noted that the critical needs fund and the long-range fund should appropriate substantial dollars to assist local districts.

In considering the recommendations, several observations are appropriate. First, many additional recommendations can be conceived, but we suggest that these recommendations represent a realistic beginning to guide development of future state action. As plans are developed, recommendations will be modified and outcomes altered in light of new information and fiscal restraints. Nonetheless, it is imperative that the state consider the research data and the arguments which suggest a relationship between a potential legal responsibility for financing facilities and the state's failure to aid capital outlay efforts in local school districts. That relationship provides the basis for the evidence presented and is the foundation on which potential liability ultimately rests. To the extent that the arguments are presently convincing and to which analogies to general equity principles are correct, there appears to be a strong motivation for the state to consider assisting local school districts with facility initiatives.

Finally, in recommending that the state adopt a mechanism for aiding local school districts in funding facility concerns, we recognize the enormity of the task. But we are similarly aware that there is a potential for state liability if court trends develop as the indicators suggest. Research has identified a substantial estimate of deferred needs and the effect of failed bond elections. New data increases the total dollar amount on a daily basis. We are also aware that the task of describing needs is large. We believe, however,

that the state is well advised to explore the issue rationally in preparation for a potentiality which appears to hold promise. From that assessment should evolve decisions and processes to assist the state in developing guidelines for the administration of a state plan to aid facility finance in local school districts. We are convinced from the research efforts and findings that the process of planning for state involvement in local capital outlay financing is inevitable and should begin now.

Achievement of Equity in Capital Outlay Funding for Kansas Schools: Technical Report Volume 2

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PREFACE

Funding educational facilities has been a difficult issue for public school districts for many years. Problems have surfaced as communities have sought to construct and maintain buildings in an era of escalating needs. Those needs have frequently been related to expanding curricular innovations, new mandates, and the passage of time which has taken its toll. The combination of events has produced a sizeable problem deserving great attention.

As facility needs have grown, there has been an increased demand for resources to address those needs. The demand has usually been placed squarely on the local property tax. As school taxes have increased for instructional and other educational needs, there has often been little opportunity to devote limited resources to fully meeting facility needs. As a consequence, a deficit has developed in which facilities have received decreased emphasis as instructional priorities logically demanded the bulk of limited resources.

We have addressed those problems in Volume I of this study. We have made a case for increased attention to facilities, and we have suggested that the courts have shown preliminary interest in facility concerns. Our thesis throughout many writings has been that school leaders and policy makers should increase efforts to find new and innovative solutions because facility finance reform is a current issue which should receive immediate attention. It has also been our thesis, however, that concern for facilities should not be driven by legal jeopardy-- we have held closely to the concept that reform must become a paramount educational issue because policy leaders should assume a proactive role in improving education rather than reacting to its external forces.

The evidence on which we draw the above inferences was presented in Volume I and was derived from considerable data accumulation. This volume contains those technical appendixes. The data will be useful primarily to Kansas school districts who wish to compare their relative positions to other districts in the state and to other interested persons who have a keen interest in the issues at hand. It is thus a reference handbook, demonstrating alternative ways of viewing the same data in arrays which emphasize the various alternatives for funding schema. Its utility for other states will lie primarily in observing the data process and in adapting it to unique needs.

We believe that the total work encompassed in these two volumes offers significant value to the various states and to Kansas policy leaders. Improvement in educational services to children can be made only as needs are perceived and actively addressed. This work represents an attempt to address one area which has been historically underemphasized. But because of the enormous costs involved, it becomes important to address that area quickly and meaningfully. This work is one further step in analyzing the policy implications of a significant and worthwhile educational consideration as expressed by educational facilities.

APPENDIX 1 A

SELECTED GENERAL DATA

ON

KANSAS USDs

BY

DISTRICT NUMBER

APPENDIX 1A: SELECTED GENERAL DATA ON KANSAS USDs BY DISTRICT NUMBER

USD	FTE	UNADJ AV	GF '87 MILLS	C.O. MILLS	B&I MILLS	STATE MEAN LEVY FOR CO + B&I	WPP @ STATE MEAN	STATE WPP	WPP MINUS WPP
101	1104.5	22376356	.05190	.00400	0.00000	.00727	147.28	61.51	85.77
102	576.0	19834212	.06992	.00400	0.00000	.00727	249.47	61.51	187.96
103	225.5	16082626	.06436	.00400	0.00000	.00727	518.50	61.51	456.99
104	205.0	10645149	.07400	.00400	0.00000	.00727	377.51	61.51	316.00
200	336.7	30626428	.04465	.00399	0.00000	.00727	661.28	61.51	599.77
202	3836.1	53148939	.06428	.00379	.00066	.00727	100.73	61.51	39.22
203	964.0	9785527	.08141	.00391	.00495	.00727	73.80	61.51	12.29
204	2073.0	31441142	.07322	.00400	.01590	.00727	110.26	61.51	48.75
205	652.0	16342019	.04405	.00200	.00448	.00727	174.20	61.51	112.69
206	506.0	17447915	.06452	.00413	0.00000	.00727	250.68	61.51	189.17
208	607.5	24312310	.05514	.00300	.00244	.00727	290.95	61.51	229.44
209	145.3	61573700	.01330	.00400	0.00000	.00727	3080.80	61.51	3019.29
210	897.5	172138611	.02096	0.00000	0.00000	.00727	1394.37	61.51	1332.86
211	706.5	14405468	.05368	.00200	.01227	.00727	148.23	61.51	86.72
212	203.5	6991725	.06234	.00536	0.00000	.00727	249.78	61.51	188.27
213	128.0	6173979	.07397	0.00000	0.00000	.00727	350.66	61.51	289.15
214	1500.1	149167192	.03067	0.00000	0.00000	.00727	722.92	61.51	661.41
215	685.0	138878950	.01704	0.00000	.00062	.00727	1473.94	61.51	1412.43
216	254.5	44148764	.01981	.00400	0.00000	.00727	1261.15	61.51	1197.64
217	216.0	57832171	.01851	.00300	0.00000	.00727	1946.48	61.51	1884.97
218	596.0	45462536	.03369	.00400	.00736	.00727	554.55	61.51	493.04
219	203.5	14774257	.04724	.00200	0.00000	.00727	527.81	61.51	466.30
220	257.7	28655649	.03415	.00200	0.00000	.00727	876.43	61.51	814.92
221	172.5	8866507	.04365	.00300	0.00000	.00727	373.68	61.51	312.17
222	430.0	10130318	.04957	0.00000	0.00000	.00727	171.27	61.51	109.76
223	364.5	18078945	.06439	.00398	0.00000	.00727	341.83	61.51	280.32
224	403.4	16741572	.03604	0.00000	.00350	.00727	301.71	61.51	240.20
225	169.0	10775754	.06235	.00200	0.00000	.00727	463.46	61.51	401.95
226	401.5	58155719	.02758	0.00000	.00129	.00727	1053.03	61.51	991.52
227	243.5	17112382	.05342	0.00000	.00971	.00727	510.91	61.51	449.40
228	139.0	10641709	.04408	.00400	.00771	.00727	556.58	61.51	495.07
229	6575.0	168667464	.08140	.00400	.02108	.00727	185.93	61.51	124.42
230	1212.5	12795266	.11895	.00399	.00824	.00727	76.72	61.51	15.21
231	1656.2	31601966	.07983	.00398	.02023	.00727	138.72	61.51	77.21
232	1651.8	20937425	.09043	.00349	.00460	.00727	92.15	61.51	30.64
233	12139.6	216122462	.07296	.00394	.01916	.00727	129.43	61.51	67.92
234	2046.5	35288463	.06234	.00119	.00535	.00727	125.36	61.51	63.85
235	478.5	10184310	.03962	0.00000	.00652	.00727	154.73	61.51	93.22
237	643.0	20389821	.05918	.00400	0.00000	.00727	230.53	61.51	169.02
238	208.5	6569196	.07342	.00364	0.00000	.00727	229.75	61.51	168.24
239	642.5	21345287	.03668	.00400	0.00000	.00727	241.53	61.51	180.02
240	481.7	13391946	.04230	.00360	.00800	.00727	202.12	61.51	140.61
241	322.0	14164026	.04644	0.00000	0.00000	.00727	319.79	61.51	258.28
242	108.5	8207005	.04559	.00400	0.00000	.00727	549.91	61.51	488.40
243	486.5	9627717	.05924	0.00000	.01494	.00727	143.87	61.51	82.36
244	765.6	493247327	.00694	.00400	.00271	.00727	4683.79	61.51	4622.28
245	319.5	11637231	.05262	.00400	.00434	.00727	264.80	61.51	203.29

246	587.5	7245186	.05346	0.00000	.00946	.00727	89.66	61.51	28.15
247	779.5	13523666	.06349	.00398	0.00000	.00727	126.13	61.51	64.62
248	1039.0	16466851	.03861	.00385	.00210	.00727	115.22	61.51	53.71
249	420.5	6072170	.05336	.00394	0.00000	.00727	104.98	61.51	43.47
250	2909.0	44667539	.07355	.00350	.00746	.00727	111.68	61.51	50.17
251	680.2	18322952	.04619	.00400	.00409	.00727	195.84	61.51	134.33
252	482.0	14828157	.05218	.00359	0.00000	.00727	223.65	61.51	162.14
253	4460.5	82945104	.06327	.00400	.00358	.00727	135.19	61.51	73.68
254	802.0	38090956	.05280	.00398	0.00000	.00727	345.29	61.51	283.78
255	314.0	21866431	.05611	.00400	.00373	.00727	506.27	61.51	444.76
256	333.0	10912236	.04719	.00400	0.00000	.00727	238.23	61.51	176.72
257	1746.0	29248556	.06149	.00399	.00527	.00727	121.79	61.51	60.28
258	620.0	16609438	.03809	.00296	.00391	.00727	194.76	61.51	133.25
259	43368.5	1110929480	.07554	.00400	.00203	.00727	186.23	61.51	124.72
260	5206.8	144884706	.04978	.00400	0.00000	.00727	202.30	61.51	140.79
261	3117.8	41372600	.07387	.00400	.00516	.00727	96.47	61.51	34.96
262	1882.0	24968380	.07381	.00400	.00436	.00727	96.45	1.51	34.94
263	1803.0	16225664	.06645	0.00000	.00763	.00727	65.42	61.51	3.91
264	942.3	26858120	.05278	.00397	.01392	.00727	207.17	61.51	145.66
265	1854.7	34073587	.08328	.00400	.00812	.00727	133.56	61.51	72.05
266	1740.1	23585193	.06137	.00399	.02028	.00727	98.54	61.51	37.03
267	1383.5	22491285	.05980	.00397	.00412	.00727	118.19	61.51	56.68
268	557.5	12703674	.05650	.00400	.00291	.00727	171.82	61.51	110.31
269	188.0	15884436	.05398	.00300	0.00000	.00727	614.25	61.51	552.74
270	459.0	26603844	.05092	.00350	0.00000	.00727	395.52	61.51	334.01
271	406.0	21274100	.05351	.00250	0.00000	.00727	380.94	61.51	319.43
272	547.0	16303704	.05904	.00400	.00227	.00727	216.69	61.51	155.18
273	780.0	25426604	.03700	.00400	.00638	.00727	236.99	61.51	175.48
274	475.5	24746636	.05995	0.00000	0.00000	.00727	378.36	61.51	316.85
275	108.5	10255602	.05571	.00200	0.00000	.00727	687.17	61.51	625.66
278	310.0	7377076	.07061	.00400	.00100	.00727	173.00	61.51	111.49
279	196.5	7587161	.07305	.00400	0.00000	.00727	277.88	61.51	216.37
280	124.0	8466891	.06549	.00200	0.00000	.00727	496.41	61.51	434.90
281	504.6	23635372	.05343	.00279	0.00000	.00727	340.53	61.51	279.02
282	446.9	17021619	.03781	0.00000	.00833	.00727	276.90	61.51	215.39
283	177.5	4628351	.04818	.00343	0.00000	.00727	189.57	61.51	128.06
284	540.5	25133780	.04765	0.00000	.00300	.00727	338.35	61.51	276.84
285	202.0	7198490	.03809	0.00000	.00841	.00727	259.07	61.51	197.56
286	501.0	11701541	.03708	0.00000	.00414	.00727	169.80	61.51	108.29
287	726.5	13130877	.05559	.00400	0.00000	.00727	131.40	61.51	69.89
288	495.0	8713964	.03677	.00395	.00485	.00727	127.21	61.51	65.70
289	667.7	10660544	.06287	.00348	0.00000	.00727	116.07	61.51	54.56
290	2185.5	34353026	.06534	.00393	.00432	.00727	116.95	61.51	55.44
291	147.5	7945040	.07592	0.00000	0.00000	.00727	391.60	61.51	330.09
292	210.5	10759041	.08053	0.00000	0.00000	.00727	371 58	61.51	310.07
293	320.5	13817096	.05287	.00399	.00091	.00727	313.42	61.51	251.91
294	532.5	22948867	.04694	0.00000	0.00000	.00727	286.42	61.51	224.91
295	119.3	5762656	.07452	.00400	0.00000	.00727	351.03	61.51	289.52
297	419.0	14668970	.05592	.00400	0.00000	.00727	254.52	61.51	193.01
298	401.0	18080733	.03843	.00350	0.00000	.00727	327.80	61.51	266.29
299	208.5	18069184	.03691	.00500	0.00000	.00727	630.04	61.51	568.53
300	420.5	31364357	.04707	.00150	0.00000	.00727	542.26	61.51	480.75
301	91.0	10940580	.05850	.00400	0.00000	.00727	874.04	61.51	812.53
302	204.5	12492110	.04673	.00200	0.00000	.00727	444.10	61.51	382.59

303	322.5	21912017	.05565	.00397	.00624	.00727	493.95	61.51	432.44
304	123.5	9767700	.05915	.00273	.00718	.00727	574.99	61.51	513.48
305	6675.8	130025743	.07615	.00400	.00475	.00727	141.60	61.51	80.09
306	657.1	27173359	.03476	0.00000	.01517	.00727	300.64	61.51	239.13
307	334.0	8127226	.05022	.00400	.00245	.00727	176.90	61.51	115.39
308	4697.3	111820437	.07198	.00200	.00630	.00727	166.00	61.51	104.49
309	1472.5	33118199	.05649	.00400	.00242	.00727	163.51	61.51	102.00
310	516.0	19147276	.05027	.00400	0.00000	.00727	269.77	61.51	208.26
311	263.5	8673539	.06233	0.00000	.00707	.00727	239.30	61.51	177.79
312	1123.5	31188521	.04653	0.00000	.00216	.00727	201.82	61.51	140.31
313	2145.5	45166262	.05707	.00400	.00859	.00727	153.05	61.51	91.54
314	149.5	10055999	.07197	.00400	.00442	.00727	489.01	61.51	427.50
315	1210.5	33323302	.06235	.00400	0.00000	.00727	200.13	61.51	138.62
316	142.5	7260366	.06304	.00400	0.00000	.00727	370.41	61.51	308.90
317	73.5	4578880	.07502	.00400	0.00000	.00727	452.90	61.51	391.39
318	472.5	15939619	.05998	.00400	0.00000	.00727	245.25	61.51	183.74
320	1176.1	19083197	.03289	.00400	.01591	.00727	117.96	61.51	56.45
321	1009.1	224298706	.03018	.00279	.00385	.00727	1615.95	61.51	1554.44
322	413.5	10607277	.06116	.00300	0.00000	.00727	186.49	61.51	124.98
323	577.5	9570873	.06489	.00400	0.00000	.00727	120.49	61.51	58.98
324	168.0	6117627	.05082	.00400	0.00000	.00727	264.73	61.51	203.22
325	711.5	22685326	.05140	.00398	0.00000	.00727	231.80	61.51	170.29
326	227.5	13756829	.04706	.00190	0.00000	.00727	439.61	61.51	378.10
327	710.8	18246068	.05691	.00400	.00895	.00727	186.62	61.51	125.11
328	475.5	44532540	.03628	.00250	0.00000	.00727	680.87	61.51	619.36
329	522.4	16406838	.05565	.00400	0.00000	.00727	228.33	61.51	166.82
330	558.0	12331644	.06200	0.00000	0.00000	.00727	163.27	61.51	101.76
331	1098.7	51413011	.05720	0.00000	.00617	.00727	340.20	61.51	278.69
332	307.0	34561228	.04206	.00400	0.00000	.00727	818.44	61.51	756.93
333	1354.4	31535351	.05669	.00398	0.00000	.00727	169.27	61.51	107.76
334	265.0	11967894	.03240	.00350	0.00000	.00727	328.33	61.51	266.82
335	465.5	6795238	.04248	.00400	.00844	.00727	106.13	61.51	44.62
336	567.5	13778108	.04800	.00400	.00472	.00727	112.86	61.51	51.35
337	768.1	8205445	.04761	.00400	.01323	.00727	77.64	61.51	16.13
338	460.9	5609540	.05168	.00400	.00279	.00727	86.48	61.51	24.97
339	379.9	6351642	.04527	0.00000	.02581	.00727	121.55	61.51	60.04
340	715.5	9143616	.06858	.00400	.00625	.00727	92.91	61.51	31.40
341	529.0	9067162	.06520	.00400	.00298	.00727	124.61	61.51	63.10
342	481.5	8330351	.04798	.00402	.01201	.00727	125.78	61.51	64.27
343	855.5	14095903	.06172	.00400	.00448	.00727	119.79	61.51	58.28
344	412.0	5458977	.04340	.00400	0.00000	.00727	96.33	61.51	34.82
345	3374.5	78700961	.05545	.00398	0.00000	.00727	169.55	61.51	108.04
346	544.0	13271393	.05266	.00398	.00756	.00727	177.36	61.51	115.85
347	378.7	15186857	.07048	.00359	0.00000	.00727	291.55	61.51	230.04
348	918.2	12669100	.06524	.00371	.00969	.00727	100.31	61.51	38.80
349	283.5	11969551	.08059	.00400	0.00000	.00727	307.46	61.51	245.95
350	429.0	15710461	.05680	.00399	0.00000	.00727	334.02	61.51	272.51
351	282.0	26168374	.04775	.00300	0.00000	.00727	674.62	61.51	613.11
352	1232.0	36033877	.07730	.00398	0.00000	.00727	212.63	61.51	151.12
353	1884.0	28663817	.07429	.00393	.00394	.00727	110.62	61.51	49.11
354	222.5	15509823	.06990	.00097	0.00000	.00727	506.77	61.51	445.26
355	352.1	20938582	.05002	.00200	0.00000	.00727	275.72	61.51	214.21
356	399.5	9711868	.07473	.00397	0.00000	.00727	176.73	61.51	115.22
357	674.0	8068652	.07218	.00393	.01649	.00727	87.03	61.51	25.52

358	402.5	8809426	.05716	.00398	0.00000	.00727	159.12	61.51	97.61
359	212.5	8841247	.06647	0.00000	0.00000	.00727	302.47	61.51	240.96
360	301.0	9793442	.07755	.00199	.00411	.00727	236.54	61.51	175.03
361	985.5	38843157	.06017	.00400	.00341	.00727	286.54	61.51	225.03
362	780.3	101714100	.02931	0.00000	.00478	.00727	947.66	61.51	886.15
363	605.5	110847385	.01965	.00400	.00473	.00727	1330.90	61.51	1269.39
364	900.0	26287915	.05818	.00400	0.00000	.00727	217.35	61.51	156.84
365	967.6	30396330	.04972	.00250	0.00000	.00727	228.38	61.51	166.87
366	560.0	19598346	.03847	.00350	0.00000	.00727	254.43	61.51	192.92
367	1096.0	15712899	.04968	0.00000	.02456	.00727	104.23	61.51	42.72
368	1442.6	28356915	.06962	.00399	.00321	.00727	142.91	61.51	81.40
369	268.0	8402979	.05655	.00399	.01192	.00727	227.95	61.51	166.44
371	210.5	10680676	.05754	.00477	0.00000	.00727	368.88	61.51	307.37
372	691.0	8936539	.05473	.00398	.00653	.00727	108.10	61.51	46.59
373	3035.7	52972852	.08171	.00399	.00649	.00727	126.86	61.51	65.35
374	490.0	41981130	.03455	.00400	0.00000	.00727	622.86	61.51	561.35
375	1163.0	43334984	.04075	.00400	.00138	.00727	270.89	61.51	209.38
376	541.1	15009149	.04207	.00400	0.00000	.00727	201.66	61.51	140.15
377	778..	16125474	.06943	0.00000	.00519	.00727	150.68	61.51	89.17
378	514.5	10000887	.05769	.00397	.00517	.00727	141.31	61.51	79.80
379	1561.6	33961009	.04714	.00200	0.00000	.00727	158.10	61.51	96.59
380	599.0	15865127	.04799	0.00000	0.00000	.00727	192.55	61.51	131.04
381	251.5	9115444	.04553	.00404	0.00000	.00727	263.50	61.51	201.99
382	1324.0	40663939	.06256	.00200	.00427	.00727	223.28	61.51	161.77
383	5848.6	123846961	.06227	.00396	.00842	.00727	153.95	61.51	92.44
384	248.5	7832754	.05119	.00199	0.00000	.00727	229.15	61.51	167.64
385	1564.0	26682188	.08268	.00400	.00959	.00727	124.03	61.51	62.52
386	288.0	10261054	.06136	0.00000	.01495	.00727	259.02	61.51	197.51
387	388.0	9717134	.04612	.00387	0.00000	.00727	182.07	61.51	120.56
388	352.5	16940246	.05769	.00200	.00783	.00727	349.38	61.51	287.87
389	691.5	21804850	.05684	.00393	.02638	.00727	229.24	61.51	167.73
390	141.5	6818397	.04406	.00123	0.00000	.00727	350.32	61.51	288.81
392	475.5	16147636	.04490	0.00000	0.00000	.00727	246.88	61.51	185.37
393	303.0	9611681	.06074	.00400	0.00000	.00727	230 .	61.51	169.11
394	1233.6	13343104	.07936	.00399	.00249	.00727	78.67	61.51	17.16
395	364.0	26653509	.04618	.00130	0.00000	.00727	532.34	61.51	470.83
396	685.2	9134452	.05089	.00350	.00582	.00727	96.92	61.51	35.41
397	294.5	12842128	.04498	0.00000	0.00000	.00727	317.02	61.51	255.51
398	412.5	11411769	.05275	.00387	.00400	.00727	201.12	61.51	139.61
399	170.5	18988252	.04611	.00112	0.00000	.00727	809.65	61.51	748.14
400	794.5	24118570	.05920	.00311	.00938	.00727	220.69	61.51	159.18
401	173.0	15502771	.05648	.00200	0.00000	.00727	651.47	61.51	589.96
402	1813.5	26096927	.05724	.00400	.00546	.00727	104.62	61.51	43.11
403	352.0	17143671	.04949	0.00000	0.00000	.00727	354.12	61.51	292.61
404	745.9	12327327	.03589	0.00000	.01918	.00727	120.15	61.51	58.64
405	750.1	24012707	.04658	.00400	0.00000	.00727	232.73	61.51	171.22
406	480.9	5260115	.03661	0.00000	0.00000	.00727	79.52	61.51	18.01
407	1232.7	56570307	.06791	.00400	0.00000	.00727	333.63	61.51	272.12
408	539.5	14102673	.05187	0.00000	.00305	.00727	190.04	61.51	128.53
409	1677.1	32278259	.06619	0.00000	.00592	.00727	139.92	61.51	78.41
410	596.7	16547315	.05110	.00383	.00424	.00727	201.61	61.51	140.10
411	248.3	5930241	.06093	.00495	0.00000	.00727	173.63	61.51	112.12
412	529.0	16625938	.06274	.00400	.00352	.00727	228.49	61.51	166.98
413	1943.0	38690813	.06300	.00400	.02482	.00727	144.77	61.51	83.26

415	1100.1	27684377	.06254	.00457	.00474	.00727	182.95	61.51	121.44
416	1024.0	19888813	.05708	.00399	.00867	.00727	141.20	61.51	79.69
417	972.5	27121605	.03650	.00200	.00780	.00727	202.75	61.51	141.24
418	2268.3	77023974	.06040	.00417	.00289	.00727	244.71	61.51	183.20
419	384.5	13469387	.05026	.00607	0.00000	.00727	254.67	61.51	193.16
420	629.0	12260552	.02984	.00400	.00585	.00727	141.71	61.51	80.20
421	378.5	7262025	.04926	.00400	0.00000	.00727	139.48	61.51	77.97
422	430.0	21407373	.03132	.00399	0.00000	.00727	361.93	61.51	300.42
423	426.0	15939512	.06272	.00403	.00716	.00727	272.02	61.51	210.51
424	118.0	13804876	.05570	.00400	0.00000	.00727	850.52	61.51	789.01
425	295.5	5133198	.05585	0.00000	.01476	.00727	126.29	61.51	64.78
426	259.0	9465551	.05236	.00200	0.00000	.00727	265.69	61.51	204.18
427	605.5	19818703	.05071	0.00000	0.00000	.00727	237.96	61.51	176.45
428	3328.9	89728376	.06887	0.00000	.00139	.00727	195.96	61.51	134.45
429	382.5	4662137	.03960	.00398	.00509	.00727	88.61	61.51	27.10
430	643.7	11642302	.05064	.00400	.02514	.00727	131.49	61.51	69.98
431	691.0	27659661	.06194	0.00000	.01327	.00727	291.01	61.51	229.50
432	403.5	13792788	.04507	0.00000	0.00000	.00727	248.51	61.51	187.00
433	199.5	5904453	.07589	0.00000	.00898	.00727	215.16	61.51	153.65
434	1215.2	14450326	.05040	.00400	0.00000	.00727	86.45	61.51	24.94
435	1386.5	25682961	.06288	.00400	.00472	.00727	134.67	61.51	73.16
436	804.7	14945119	.04141	0.00000	.00304	.00727	135.02	61.51	73.51
437	3319.6	66379379	.05707	.00400	.01344	.00727	145.37	61.51	83.86
438	353.8	20919817	.05468	.00400	.00116	.00727	429.87	61.51	368.36
439	399.0	5411534	.05611	0.00000	.01193	.00727	98.60	61.51	37.09
440	718.0	15156397	.07054	.00435	.00598	.00727	153.46	61.51	91.95
441	941.0	21871724	.05267	.00400	0.00000	.00727	168.95	61.51	107.47
442	378.1	12033020	.04453	0.00000	.00218	.00727	231.37	61.51	169.86
443	4120.1	91821236	.05890	.00398	0.00000	.00727	162.02	61.51	100.51
444	386.0	25252713	.03601	.00400	0.00000	.00727	475.61	61.51	414.10
445	2765.6	50707784	.05751	.00398	.00166	.00727	133.30	61.51	71.79
446	2543.8	46610250	.06146	.00040	0.00000	.00727	144.58	61.51	83.07
447	640.5	8766767	.04539	0.00000	.00947	.00727	99.51	61.51	38.00
448	386.5	12565908	.05569	.00391	0.00000	.00727	236.36	61.51	174.85
449	638.0	10438211	.05610	.00364	.00751	.00727	118.94	61.51	57.43
450	5226.5	54215264	.06100	.00295	.00955	.00727	122.16	61.51	60.65
451	220.0	5137652	.03112	0.00000	0.00000	.00727	169.78	61.51	108.27
452	493.6	65907958	.02580	.00200	.00297	.00727	970.73	61.51	909.22
453	4260.0	62118557	.07290	.00397	.00099	.00727	106.01	61.51	44.50
454	342.0	4709609	.04032	.00400	0.00000	.00727	100.11	61.51	38.60
455	152.5	7198536	.06898	0.00000	0.00000	.00727	343.17	61.51	281.66
456	329.5	6018134	.04386	.00400	0.00000	.00727	132.78	61.51	71.27
457	5629.1	153976395	.05690	.00165	.00673	.00727	198.86	61.51	137.35
458	1150.6	14656197	.07963	.00392	.00451	.00727	92.60	61.51	31.09
459	284.0	12266609	.04185	.00423	0.00000	.00727	314.01	61.51	252.50
460	742.0	22721326	.05144	.00400	.00402	.00727	222.62	61.51	161.11
461	781.0	13812733	.03358	.00348	.01843	.00727	128.58	61.51	67.07
462	409.5	11708442	.04490	.00394	.00576	.00727	207.86	61.51	146.35
463	360.0	6517166	.05068	0.00000	.00834	.00727	131.61	61.51	70.10
464	1251.0	17680023	.06440	.00390	.01847	.00727	102.74	61.51	41.23
465	2273.1	50910359	.06256	.00399	.00954	.00727	162.83	61.51	101.32
466	1102.0	35583300	.05744	0.00000	.01026	.00727	234.75	61.51	173.24
467	563.0	28907353	.06021	0.00000	0.00000	.00727	373.28	61.51	311.77
468	119.0	10398531	.04753	.00400	.01967	.00727	635.27	61.51	573.76

469	1461.5	15202944	.05125	.00397	.02853	.00727	75.62	61.51	14.11
470	2967.4	57472165	.05671	.00399	.00915	.00727	140.80	61.51	79.29
471	159.5	6868303	.04642	.00383	.01246	.00727	313.06	61.51	251.55
473	1205.0	30702048	.05450	.00200	0.00000	.00727	185.23	61.51	123.72
474	146.0	12794335	.05989	.00400	0.00000	.00727	637.09	61.51	575.58
475	6557.7	61729817	.03623	.00400	0.00000	.00727	68.43	61.51	6.92
476	122.0	10639601	.08320	.00491	0.00000	.00727	634.02	61.51	572.51
477	220.0	11989562	.03591	.00400	.00430	.00727	396.20	61.51	334.69
479	257.5	8011564	.04629	0.00000	0.00000	.00727	226.19	61.51	164.68
480	3391.0	89826767	.05979	.00398	.00304	.00727	192.58	61.51	131.07
481	375.8	11538558	.05950	.00400	0.00000	.00727	223.22	61.51	161.71
482	367.0	20346568	.06262	.00200	.00326	.00727	403.05	61.51	341.54
483	560.0	34398913	.04498	.00298	0.00000	.00727	446.57	61.51	385.06
484	891.0	22403318	.05332	.00343	.00358	.00727	182.80	61.51	121.29
485	251.0	7410261	.03880	0.00000	.00756	.00727	214.68	61.51	153.17
487	560.6	9331237	.06082	.00452	.00034	.00727	121.01	61.51	59.50
488	326.5	10422576	.05550	.00400	0.00000	.00727	232.07	61.51	170.56
489	3266.1	80071787	.07593	.00400	.00409	.00727	178.23	61.51	116.72
490	2017.0	41954725	.06658	.00200	0.00000	.00727	151.22	61.51	89.71
491	783.2	7467929	.05242	.00388	.00582	.00727	69.32	61.51	7.81
492	234.0	11873430	.06401	.00104	.01120	.00727	368.89	61.51	307.38
493	1231.5	27330226	.06547	.00400	.00986	.00727	161.34	61.51	99.83
494	419.0	36458565	.04205	.00440	0.00000	.00727	632.59	61.51	571.08
495	1092.6	35473062	.06752	0.00000	0.00000	.00727	236.03	61.51	174.52
496	152.0	10699755	.07363	0.00000	0.00000	.00727	511.76	61.51	450.25
497	7639.6	195279705	.07137	.00398	.00442	.00727	185.83	61.51	124.32
498	391.2	10093058	.06152	.00150	.00898	.00727	187.57	61.51	126.06
499	704.5	4835130	.04379	.00400	0.00000	.00727	49.50	61.51	-11.01
500	22131.4	326875449	.04466	.00247	.00344	.00727	107.38	61.51	45.87
501	14181.7	325760905	.08358	.00300	.00092	.00727	167.00	61.51	105.49
502	189.0	13071900	.04761	.00400	0.00000	.00727	502.82	61.51	441.31
503	1957.5	29621570	.06475	.00400	.00267	.00727	110.01	61.51	48.50
504	456.0	10224768	.03702	.00400	0.00000	.00727	162.30	61.51	100.79
505	312.0	4687727	.04224	.00400	.00642	.00727	109.23	61.51	47.72
506	1605.1	26501962	.04950	.00400	.00362	.00727	121.89	61.51	59.38
507	382.0	73810681	.02360	0.00000	.00272	.00727	1395.21	61.51	1333.70
508	859.0	10519006	.04281	.00400	.00870	.00727	89.03	61.51	27.52
509	215.5	6639020	.06050	.00395	0.00000	.00727	223.97	61.51	162.46
511	234.0	12919652	.05210	.00400	.01186	.00727	401.39	61.51	339.88
512	25068.1	796559111	.07714	.00400	.00052	.00727	199.22	61.51	137.71
TOTAL	399755.2	11255101979	.05470 Mn	.00388 Mn	.00411 Mn	.00727 Mn	313.00 Mn	61.51 Mn	251.49 Mn

APPENDIX 1 B

SELECTED GENERAL DATA
ON
KANSAS USDs

BY
WEALTH PER PUPIL
WITHIN
RURAL AND URBAN
SUBGROUPS

APPENDIX 18: SELECTED GENERAL DATA ON KANSAS USDs BY WEALTH PER PUPIL WITHIN URBAN AND RURAL SUBGROUPS

USD	FTE	UNADJ AV	GF '87 MILLS	C.O. MILLS	E&I MILLS	STATE MEAN LEVY FOR CO + E&I	WEALTH PER PUPIL AT STATE MEAN	STATE APM	STATE APP-APM
URBAN WEALTH PER PUPIL MINUS URBAN APM FROM HIGH TO LOW									
321	1009.1	224298706	.03018	.00279	.00385	.00727	1615.55	61.51	1554.44
214	1500.1	149167192	.03067	0.00000	0.00000	.00727	722.92	61.51	661.41
331	1096.7	51413011	.05720	0.00000	.00617	.00727	340.20	61.51	278.69
407	1232.7	56570307	.06791	.00400	0.00000	.00727	333.63	61.51	272.12
375	1163.0	43334984	.04075	.00400	.00138	.00727	270.89	61.51	209.38
418	2268.3	77023974	.06040	.00417	.00289	.00727	244.71	61.51	183.21
495	1092.6	35473062	.06752	0.00000	0.00000	.00727	236.03	61.51	174.52
466	1102.0	35583300	.05744	0.00000	.01026	.00727	234.75	61.51	173.24
382	1324.0	40663939	.06256	.00200	.00427	.00727	223.28	61.51	161.77
352	1232.0	36033877	.07730	.00398	0.00000	.00727	212.63	61.51	151.12
263	5206.8	144884706	.04978	.00400	0.00000	.00727	202.30	61.51	140.79
312	1123.5	31188521	.04653	0.00000	.00216	.00727	201.82	61.51	140.31
315	1210.5	33323302	.06235	.00400	0.00000	.00727	200.13	61.51	138.62
512	29068.1	796559111	.07714	.00400	.00052	.00727	199.22	61.51	137.71
457	5629.1	153976395	.05690	.00165	.00673	.00727	198.66	61.51	137.15
428	3328.9	89728376	.06887	0.00000	.00139	.00727	195.96	61.51	134.45
480	3391.0	89826767	.05979	.00398	.00304	.00727	192.58	61.51	131.07
259	43368.5	1110929480	.07554	.00400	.00203	.00727	186.23	61.51	124.72
229	6595.0	168667464	.08140	.00400	.02108	.00727	185.93	61.51	124.42
497	7639.6	195279705	.07137	.00398	.00442	.00727	185.83	61.51	124.32
473	1205.0	30702048	.05459	.00200	0.00000	.00727	185.23	61.51	123.72
415	1100.1	27654377	.06254	.00457	.00474	.00727	182.95	61.51	121.44
489	3266.1	80071787	.07593	.00400	.00409	.00727	178.23	61.51	116.72
345	3374.5	78700961	.05545	.00398	0.00000	.00727	169.55	61.51	108.04
333	1354.4	31535351	.05669	.00398	0.00000	.00727	169.27	61.51	107.76
501	14181.7	325760905	.08358	.00300	.00092	.00727	167.00	61.51	105.49
308	4897.3	111820437	.07198	.00200	.00630	.00727	166.00	61.51	104.49
309	1472.5	33118199	.05649	.00400	.00242	.00727	163.51	61.51	102.00
465	2273.1	50910359	.06256	.00399	.00954	.00727	162.53	61.51	101.02
443	4120.1	91821236	.05890	.00398	0.00000	.00727	162.02	61.51	100.51
493	1231.5	27330226	.06547	.00400	.00986	.00727	161.34	61.51	99.83
379	1561.6	33961009	.04714	.00200	0.00000	.00727	158.10	61.51	96.59
383	5848.6	123846961	.06227	.00396	.00842	.00727	153.95	61.51	92.44
313	2145.5	45166262	.05707	.00400	.00859	.00727	153.05	61.51	91.54
490	2017.0	41954725	.06658	.00200	0.00000	.00727	151.22	61.51	89.71
101	1104.5	22376356	.05190	.00400	0.00000	.00727	147.28	61.51	85.77
437	3319.6	66379379	.05707	.00400	.01344	.00727	145.37	61.51	83.86
413	1943.0	38690813	.06300	.00400	.02482	.00727	144.77	61.51	83.26
446	2343.8	46610250	.06146	.00040	0.00000	.00727	144.58	61.51	83.07
368	1442.6	28356915	.06962	.00399	.00321	.00727	142.91	61.51	81.40
305	6675.8	130025743	.07613	.00400	.00475	.00727	141.60	61.51	80.09
416	1024.0	19888813	.05708	.00399	.00867	.00727	141.20	61.51	79.69
470	2967.4	57472165	.05671	.00399	.00915	.00727	140.80	61.51	79.29

409	1677.1	32278259	.06619	0.00000	.00592	.00727	139.92	61.51	78.41
231	1656.2	31601966	.07583	.00398	.02023	.00727	138.72	61.51	77.21
253	4460.5	82945104	.06327	.00400	.00358	.00727	135.19	61.51	73.68
455	1386.5	25682961	.06288	.00400	.00472	.00727	134.67	61.51	73.16
265	1854.7	34073587	.08328	.00400	.00812	.00727	133.56	61.51	72.05
445	2765.6	50707784	.05751	.00398	.00166	.00727	133.30	61.51	71.79
233	12137.6	216122462	.07296	.00394	.01916	.00727	129.43	61.51	67.92
373	3035.7	52972852	.08171	.00399	.00649	.00727	126.86	61.51	65.35
234	2046.5	35288463	.06234	.00119	.00535	.00727	125.36	61.51	63.85
385	1564.0	26682188	.08268	.00400	.00959	.00727	124.03	61.51	62.52
450	3226.5	54215264	.06100	.00295	.00955	.00727	122.16	61.51	60.65
257	1746.0	29248558	.06149	.00399	.00527	.00727	121.79	61.51	60.28
506	1605.1	2s801962	.04950	.00400	.00362	.00727	121.39	61.51	59.88
267	1383.5	22491285	.05980	.00397	.00412	.00727	118.19	61.51	56.68
320	1176.1	19083197	.03289	.00400	.01591	.00727	117.96	61.51	56.45
290	2155.5	34353026	.06534	.00393	.00432	.00727	116.95	61.51	55.44
248	1039.0	16466831	.03861	.00385	.00210	.00727	115.22	61.51	53.71
250	2909.0	44687539	.07355	.00350	.00746	.00727	111.68	61.51	50.17
353	1884.0	28665817	.07429	.00393	.00394	.00727	110.62	61.51	49.11
294	2073.0	31441142	.07322	.00400	.01590	.00727	110.26	61.51	48.75
503	1957.5	29621570	.06475	.00400	.00267	.00727	110.01	61.51	48.50
500	22131.4	326875449	.04466	.00247	.00344	.00727	107.38	61.51	45.87
453	4260.0	62118557	.07290	.00397	.00099	.00727	106.01	61.51	44.50
402	1813.5	26096927	.05724	.00400	.00540	.00727	104.62	61.51	43.11
367	1096.0	15712899	.04968	0.00000	.02456	.00727	104.23	61.51	42.72
464	1251.0	17680023	.06440	.00390	.01847	.00727	102.74	61.51	41.23
202	3836.1	53148939	.06428	.00379	.00066	.00727	100.73	61.51	39.22
266	1740.1	23585193	.06137	.00399	.02028	.00727	98.54	61.51	37.03
261	3117.8	41372600	.07387	.00400	.00516	.00727	96.47	61.51	34.96
262	1882.0	24968380	.07381	.00400	.00436	.00727	96.45	61.51	34.94
456	1150.6	14656197	.07963	.00392	.00451	.00727	92.60	61.51	31.09
232	1651.8	20937425	.09043	.00349	.00460	.00727	92.15	61.51	30.64
434	1215.2	14450326	.05040	.00400	0.00000	.00727	86.45	61.51	24.94
354	1233.0	13345104	.07936	.00399	.00249	.00727	78.67	61.51	17.16
250	1212.5	12795266	.11895	.00399	.00822	.00727	75.72	61.51	14.21
409	1461.5	15202744	.05125	.00397	.02853	.00727	75.62	61.51	14.11
475	6557.7	61729617	.03623	.00400	0.00000	.00727	68.43	61.51	6.92
263	1803.0	16225664	.06645	0.00000	.00763	.00727	65.42	61.51	3.91
	301608.0	6794442783	.06338 Mn	.00695 Mn	.00803 Mn	.00727 Mn	174.90	61.51 M	113.39

RURAL WEALTH PER PUPIL MINUS RURAL APM FROM HIGH TO LOW

244	765.6	493247327	.00694	.00400	.00271	.00727	4688.79	61.51	4622.28
209	145.3	61573700	.01330	.00400	0.00000	.00727	3080.80	61.51	3019.29
217	216.0	57832171	.01851	.00300	0.00000	.00727	1946.48	61.51	1884.97
215	685.0	138878950	.01704	0.00000	.00062	.00727	1473.94	61.51	1412.43
507	382.0	73310681	.02360	0.00000	.00272	.00727	1395.21	61.51	1333.70
210	897.5	172138611	.02096	0.00000	0.00000	.00727	1394.37	61.51	1332.86
365	605.5	110847385	.01965	.00400	.00473	.00727	1330.90	61.51	1269.39
216	254.5	44148764	.01981	.00400	0.00000	.00727	1261.15	61.51	1199.64
226	401.5	58155719	.02758	0.00000	.00129	.00727	1053.03	61.51	991.52

452	493.6	65907953	.02580	.00200	.00297	.00727	570.73	61.51	505.22
362	780.3	101714100	.02931	0.00000	[illegible]478	.00727	547.66	61.51	486.15
220	237.7	28655649	.03415	.00200	0.00000	.00727	876.43	61.51	814.92
301	91.0	10940580	.05850	.00400	0.00000	.00727	874.04	61.51	812.53
424	118.0	13804876	.05570	.00400	0.00000	.00727	850.52	61.51	789.01
332	307.0	34561228	.04206	.00400	0.00000	.00727	818.44	61.51	756.93
599	170.5	18988252	.04611	.00112	0.00000	.00727	809.63	61.51	748.14
275	108.5	10255602	.05571	.00200	0.00000	.00727	687.17	61.51	625.66
328	475.5	44532540	.05628	.00250	0.00000	.00727	680.87	61.51	619.36
351	282.0	26168374	.04775	.00300	0.00000	.00727	674.62	61.51	613.11
200	336.7	30626428	.04465	.00399	0.00000	.00727	661.28	61.51	599.77
401	173.0	15502771	.05648	.00200	0.00000	.00727	651.47	61.51	589.96
474	146.0	12794336	.05989	.00400	0.00000	.00727	637.09	61.51	575.58
468	119.0	10398531	.04753	.00400	.01967	.00727	635.27	61.51	573.76
476	122.0	10639601	.08320	.00491	0.00000	.00727	634.02	61.51	572.5.
494	419.0	36458565	.04205	.00440	0.00000	.00727	632.59	61.51	571.08
297	208.5	18069184	.03691	.00500	0.00000	.00727	630.04	61.51	568.53
374	490.0	41981130	.03455	.00400	0.00000	.00727	622.86	61.51	561.35
269	188.0	15884436	.05398	.00300	0.00000	.00727	614.25	61.51	552.74
504	123.5	9767700	.05915	.00273	.00718	.00727	574.99	61.51	513.48
228	139.0	10641709	.04408	.00400	.00771	.00727	556.58	61.51	495.07
218	596.0	45462536	.03369	.00400	.00736	.00727	554.55	61.51	493.04
242	108.5	8207005	.04559	.00400	0.00000	.00727	549.91	61.51	488.40
366	420.5	31364357	.04707	.00150	0.00000	.00727	542.26	61.51	480.75
395	564.0	26653509	.04618	.00100	0.00000	.00727	532.34	61.51	470.83
219	203.5	14774257	.04724	.00200	0.00000	.00727	527.81	61.51	466.30
103	225.5	16082626	.06436	.00400	0.00000	.00727	518.50	61.51	456.99
496	152.0	10699755	.07363	0.00000	0.00000	.00727	511.76	61.51	450.25
227	243.5	17112382	.05342	0.00000	.00971	.00727	510.91	61.51	449.40
354	222.5	15509823	.06990	.00097	0.00000	.00727	506.77	61.51	445.26
255	314.0	21866431	.05611	.00400	.00373	.00727	506.27	61.51	444.76
502	169.0	13071900	.04761	.00400	0.00000	.00727	502.82	61.51	441.31
280	124.0	8406691	.06549	.00200	0.00000	.00727	496.41	61.51	434.91
305	322.5	21912017	.05565	.00397	.00624	.00727	493.95	61.51	432.44
314	149.5	10055999	.07197	.00400	.00442	.00727	489.01	61.51	427.50
444	386.0	25252713	.03601	.00400	0.00000	.00727	475.61	61.51	414.10
225	169.0	10773754	.06235	.00200	0.00000	.00727	463.46	61.51	401.95
317	73.5	4578880	.07502	.00400	0.00000	.00727	452.90	61.51	391.39
483	560.0	34398913	.04498	.00298	0.00000	.00727	446.57	61.51	385.06
302	204.5	12492110	.04673	.00200	0.00000	.00727	444.10	61.51	382.59
326	227.5	13756829	.04706	.00190	0.00000	.00727	439.61	61.51	378.10
438	353.8	20919817	.05468	.00400	.00116	.00727	429.87	61.51	368.36
482	367.0	20346568	.06262	.00200	.00326	.00727	403.05	61.51	341.54
511	234.0	12919652	.05210	.00400	.01186	.00727	401.39	61.51	339.88
477	220.0	11989562	.03591	.00400	.00430	.00727	396.20	61.51	334.69
270	489.0	26603844	.05092	.00350	0.00000	.00727	395.52	61.51	334.01
291	147.5	7945040	.07592	0.00000	0.00000	.00727	391.60	61.51	330.09
271	406.0	21274100	.05351	.00250	0.00000	.00727	380.94	61.51	319.43
274	475.5	24746636	.05995	0.00000	0.00000	.00727	378.36	61.51	316.85
104	205.0	10645149	.07400	.00400	0.00000	.00727	377.51	61.51	316.00
221	172.5	8866507	.04365	.00300	0.00000	.00727	373.68	61.51	312.17
467	563.0	28907353	.06021	0.00000	0.00000	.00727	373.28	61.51	311.77
292	210.5	10759041	.08053	0.00000	0.00000	.00727	371.58	61.51	310.07
316	142.5	7260366	.06304	.00400	0.00000	.00727	370.41	61.51	308.90

492	234.0	11873430	.06401	.00104	.01120	.00727	368.89	61.51	307.38
371	210.5	10680676	.05754	.00477	0.00000	.00727	368.58	61.51	307.07
422	430.0	21407373	.03132	.00399	0.00000	.00727	361.93	61.51	300.42
403	352.0	17145671	.04949	0.00000	0.00000	.00727	354.12	61.51	292.61
295	119.3	5762856	.07452	.00400	0.00000	.00727	351.03	61.51	289.52
213	128.0	6173979	.07397	0.00000	0.00000	.00727	350.66	61.51	289.15
390	141.5	6818399	.04406	.00123	0.00000	.00727	350.32	61.51	288.81
388	352.5	16940246	.05769	.00200	.00783	.00727	349.38	61.51	287.87
254	802.0	38090956	.05280	.00398	0.00000	.00727	345.29	61.51	283.78
455	152.5	7198536	.06898	0.00000	0.00000	.00727	343.17	61.51	281.66
223	384.5	18078945	.06439	.00398	0.00000	.00727	341.83	61.51	280.32
281	504.6	23635372	.05343	.00279	0.00000	.00727	340.53	61.51	279.02
264	540.5	25133780	.04765	0.00000	.00300	.00727	338.06	61.51	276.55
350	429.0	19710461	.05680	.00399	0.00000	.00727	334.02	61.51	272.51
354	265.0	11967894	.03240	.00350	0.00000	.00727	328.33	61.51	266.82
298	401.0	18080733	.03843	.00350	0.00000	.00727	327.80	61.51	266.29
241	322.0	14164066	.04644	0.00000	0.00000	.00727	319.79	61.51	258.28
397	294.5	12842128	.04498	0.00000	0.00000	.00727	317.02	61.51	255.51
459	284.0	12266609	.04185	.00423	0.00000	.00727	314.01	61.51	252.50
293	320.5	13817096	.05287	.00399	.00091	.00727	313.42	61.51	251.91
471	159.5	6868303	.04642	.00383	.01246	.00727	313.06	61.51	251.55
349	283.5	11989551	.08059	.00400	0.00000	.00727	307.46	61.51	245.95
359	212.5	8841947	.06647	0.00000	0.00000	.00727	302.47	61.51	240.96
224	403.4	16771072	.03604	0.00000	.00350	.00727	301.71	61.51	240.20
306	657.1	27173399	.03476	0.00000	.01517	.00727	300.64	61.51	239.13
347	378.7	15186957	.07048	.00359	0.00000	.00727	291.55	61.51	230.04
431	651.0	27659661	.06194	0.00000	.01327	.00727	291.01	61.51	229.50
208	607.5	24312310	.05514	.00300	.00244	.00727	290.95	61.51	229.44
361	985.5	38843157	.06017	.00400	.00341	.00727	286.54	61.51	225.03
294	582.5	22948867	.04694	0.00000	0.00000	.00727	286.42	61.51	224.91
279	198.5	7587161	.07305	.00400	0.00000	.00727	277.88	61.51	216.37
252	446.9	17021619	.03781	0.00000	.00833	.00727	276.90	61.51	215.39
355	552.1	20938582	.05002	.00200	0.00000	.00727	275.72	61.51	214.21
423	426.0	15939512	.06272	.00403	.00716	.00727	272.02	61.51	210.51
310	516.0	19147276	.05027	.00400	0.00000	.00727	269.77	61.51	208.26
426	259.0	9465551	.05236	.00200	0.00000	.00727	265.69	61.51	204.18
245	319.5	11637231	.05262	.00400	.00434	.00727	264.80	61.51	203.29
324	168.0	6117627	.05082	.00400	0.00000	.00727	264.73	61.51	203.22
381	251.5	9115444	.04553	.00404	0.00000	.00727	263.50	61.51	201.99
265	202.0	7198490	.03809	0.00000	.00841	.00727	259.07	61.51	197.56
386	288.0	10261054	.06136	0.00000	.01495	.00727	259.02	61.51	197.51
419	384.5	13469387	.05026	.00607	0.00000	.00727	254.67	61.51	193.16
297	419.0	14668970	.05592	.00400	0.00000	.00727	254.52	61.51	193.01
366	560.0	19598346	.03847	.00350	0.00000	.00727	254.43	61.51	192.92
206	506.0	17447915	.06452	.00413	0.00000	.00727	250.68	61.51	189.17
212	203.5	6991725	.06234	.00536	0.00000	.00727	249.78	61.51	188.27
102	578.0	19834212	.06992	.00400	0.00000	.00727	249.47	61.51	187.96
432	403.5	13792788	.04597	0.00000	0.00000	.00727	248.51	61.51	187.00
392	475.5	16147636	.04490	0.00000	0.00000	.00727	246.86	61.51	185.37
318	472.5	15939619	.05998	.00400	0.00000	.00727	245.25	61.51	183.74
239	642.5	21345287	.03668	.00400	0.00000	.00727	241.53	61.51	180.02
311	263.5	8673539	.06233	0.00000	.00707	.00727	239.30	61.51	177.79
256	333.0	10912236	.04719	.00400	0.00000	.00727	238.23	61.51	176.72
427	605.5	19818703	.05071	0.00000	0.00000	.00727	237.96	61.51	176.45

273	780.0	25426604	.03700	.00400	.00638	.00727	236.99	61.51	175.48
360	301.0	9793442	.07755	.00199	.00411	.00727	236.54	61.51	175.03
448	386.5	12563908	.05589	.00391	0.00000	.00727	236.36	61.51	174.85
405	750.1	24012707	.04658	.00400	0.00000	.00727	232.73	61.51	171.22
488	320.3	10422576	.05550	.00400	0.00000	.00727	232.07	61.51	170.56
325	711.5	22685326	.05140	.00398	0.00000	.00727	231.60	61.51	170.29
442	378.1	12033020	.04453	0.00000	.00218	.00727	231.37	61.51	169.86
393	303.0	9611881	.06074	.00400	0.00000	.00727	230.62	61.51	169.11
237	643.0	20389821	.05918	.00400	0.00000	.00727	230.53	61.51	169.02
238	208.5	6589196	.07342	.00364	0.00000	.00727	229.75	61.51	168.24
389	691.5	21804853	.05684	.00393	.02638	.00727	229.24	61.51	167.73
384	248.5	7832754	.05119	.00199	0.00000	.00727	229.17	61.51	167.64
412	529.0	16625938	.06274	.00400	.00352	.00727	228.47	61.51	166.96
365	967.6	30396330	.04972	.00250	0.00000	.00727	228.36	61.51	166.87
329	522.4	16406838	.05565	.00400	0.00000	.00727	228.33	61.51	166.82
369	268.0	8402979	.05655	.00399	.01192	.00727	227.95	61.51	166.44
479	257.5	8011564	.04629	0.00000	0.00000	.00727	226.19	61.51	164.68
509	215.5	6639020	.06056	.00395	0.00000	.00727	223.97	61.51	162.46
252	482.0	14828157	.05218	.00399	0.00000	.00727	223.65	61.51	162.14
481	375.8	11536558	.05950	.00400	0.00000	.00727	223.22	61.51	161.71
460	742.0	22721326	.05144	.00400	.00402	.00727	222.62	61.51	161.11
407	794.5	24118570	.05920	.00311	.00938	.00727	220.69	61.51	159.18
272	547.0	16303704	.05904	.00400	.00227	.00727	216.69	61.51	155.18
435	199.5	5904453	.07589	0.00000	.00898	.00727	215.16	61.51	153.65
486	251.0	7410261	.03880	0.00000	.00756	.00727	214.63	61.51	153.12
364	900.0	26287915	.05818	.00400	0.00000	.00727	212.35	61.51	150.84
462	409.5	11708442	.04490	.00394	.00576	.00727	207.86	61.51	146.35
264	942.5	26858120	.05278	.00397	.01392	.00727	207.17	61.51	145.66
417	972.5	27121605	.03650	.00200	.00780	.00727	202.75	61.51	141.24
240	481.7	13391946	.04230	.00360	.00800	.00727	202.12	61.51	140.61
376	541.1	15009149	.04207	.00400	0.00000	.00727	201.66	61.51	140.15
410	596.7	16547315	.05110	.00383	.00424	.00727	201.61	61.51	140.10
392	412.5	11411769	.05275	.00387	.00400	.00727	201.12	61.51	139.61
251	680.2	18822952	.04619	.00400	.00409	.00727	195.84	61.51	134.33
258	620.0	16609438	.03809	.00296	.00391	.00727	194.76	61.51	133.25
380	599.0	15865127	.04799	0.00000	0.00000	.00727	192.55	61.51	131.04
408	539.5	14102673	.05187	0.00000	.00305	.00727	190.04	61.51	128.53
283	177.5	4628351	.04818	.00348	0.00000	.00727	189.57	61.51	128.06
498	391.2	10093058	.06152	.00150	.00898	.00727	187.57	61.51	126.06
327	710.8	18246068	.05691	.00400	.00895	.00727	186.62	61.51	125.11
322	413.5	10607277	.06116	.00300	0.00000	.00727	186.49	61.51	124.98
484	891.0	22403318	.05332	.00348	.00358	.00727	182.80	61.51	121.29
387	388.0	9717134	.04612	.00387	0.00000	.00727	182.07	61.51	120.56
346	544.0	13271393	.05266	.00398	.00756	.00727	177.36	61.51	115.85
307	334.0	8127226	.05022	.00400	.00245	.00727	176.90	61.51	115.39
356	359.5	9711868	.07473	.00397	0.00000	.00727	176.78	61.51	115.27
285	682.0	16342019	.04405	.00200	.00448	.00727	174.20	61.51	112.69
411	248.3	5930241	.06093	.00495	0.00000	.00727	173.63	61.51	112.12
278	310.0	7377076	.07061	.00400	.00190	.00727	173.00	61.51	111.49
268	537.5	12703674	.05630	.00400	.00291	.00727	171.82	61.51	110.31
222	430.0	10130318	.04957	0.00000	0.00000	.00727	171.27	61.51	109.76
286	50..0	11701541	.03708	0.00000	.00414	.00727	169.80	61.51	108.29
451	220.0	5137652	.03112	0.00000	0.00000	.00727	169.78	61.51	108.27
441	941.0	21871724	.05267	.00400	0.00000	.00727	168.98	61.51	107.47

330	558.0	12331644	.06200	0.00000	0.00000	.00727	163.27	61.51	101.76
504	458.0	10224768	.03702	.00400	0.00000	.00727	162.30	61.51	100.79
355	462.5	8809426	.05716	.00398	0.00000	.00727	159.12	61.51	97.61
235	478.5	10184310	.03962	0.00000	.00652	.00727	154.73	61.51	93.22
440	718.0	15156397	.07054	.00435	.00598	.00727	153.46	61.51	91.95
377	778.0	16125474	.06943	0.00000	.00519	.00727	150.68	61.51	89.17
211	706.5	14405468	.05368	.00200	.01227	.00727	148.23	61.51	86.72
243	486.5	9827717	.05924	0.00000	.01494	.00727	143.87	61.51	82.36
420	629.0	12260552	.02984	.00400	.00535	.00727	141.71	61.51	80.20
378	514.5	10000887	.05769	.00397	.00517	.00727	141.31	61.51	79.80
421	378.5	7262025	.04926	.00400	0.00000	.00727	139.48	61.51	77.97
436	804.7	14945119	.04141	0.00000	.00304	.00727	135.02	61.51	73.51
456	329.5	6018134	.04386	.00400	0.00000	.00727	132.78	61.51	71.27
463	360.0	6517166	.05668	0.00000	.00834	.00727	131.61	61.51	70.10
430	643.7	11642302	.05064	.00400	.02514	.00727	131.45	61.51	69.93
287	726.5	13130877	.05559	.00400	0.00000	.00727	131.40	61.51	69.89
461	781.0	13812733	.03358	.00348	.01843	.00727	128.58	61.51	67.07
288	498.0	8713964	.03677	.00395	.00485	.00727	127.21	61.51	65.70
425	295.5	5133198	.05585	0.00000	.01476	.00727	126.29	61.51	64.78
247	779.5	13523666	.06349	.00398	0.00000	.00727	126.13	61.51	64.62
342	481.5	8330351	.04798	.00402	.01201	.00727	125.78	61.51	64.27
341	529.0	9067162	.06520	.00400	.00298	.00727	124.61	61.51	63.10
339	379.9	6351642	.04527	0.00000	.02581	.00727	121.55	61.51	60.04
467	560.6	9331237	.06082	.00452	.00034	.00727	121.01	61.51	59.50
323	577.5	9570873	.06489	.00400	0.00000	.00727	120.49	61.51	58.98
404	745.9	12327527	.03589	0.00000	.01913	.00727	120.15	61.51	58.64
343	855.5	14095903	.06172	.00400	.00448	.00727	119.79	61.51	58.28
449	638.0	10438211	.05610	.00364	.00751	.00727	118.94	61.51	57.43
289	667.7	10660544	.06287	.00348	0.00000	.00727	116.07	61.51	54.56
336	887.5	13778108	.04800	.00400	.00472	.00727	112.86	61.51	51.35
505	312.0	4687727	.04224	.00400	.00642	.00727	109.23	61.51	47.72
372	601.0	5936539	.05473	.00398	.00653	.00727	108.16	61.51	46.65
335	465.5	6795238	.04248	.00400	.00844	.00727	106.13	61.51	44.62
249	420.5	6072170	.05336	.00394	0.00000	.00727	104.98	61.51	43.47
348	918.2	12669100	.06524	.00371	.00969	.00727	100.31	61.51	38.80
454	342.0	4709609	.04032	.00400	0.00000	.00727	100.11	61.51	38.60
447	640.5	8766787	.04539	0.00000	.00947	.00727	99.51	61.51	38.00
439	399.0	5411534	.05611	0.00000	.01193	.00727	98.60	61.51	37.09
396	685.2	9134452	.05089	.00350	.00582	.00727	96.92	61.51	35.41
344	412.0	5458977	.04340	.00400	0.00000	.00727	96.33	61.51	34.82
340	715.5	9143616	.06858	.00400	.00625	.00727	92.91	61.51	31.40
246	587.5	7245186	.05346	0.00000	.00946	.00727	87.66	61.51	26.15
508	859.0	10519006	.04281	.00400	.00870	.00727	89.03	61.51	27.52
429	382.5	4662137	.03960	.00398	.00909	.00727	88.61	61.51	27.10
386	460.9	5609540	.05168	.00400	.00279	.00727	88.48	61.51	26.97
357	674.0	8068652	.07218	.00393	.01649	.00727	87.03	61.51	25.52
406	460.9	5260115	.03661	0.00000	0.00000	.00727	79.52	61.51	18.01
337	766.1	8203445	.04761	.00400	.01323	.00727	77.64	61.51	16.13
203	964.0	9785527	.08141	.00391	.00495	.00727	73.80	61.51	12.29
491	783.2	7467927	.05242	.00388	.00582	.00727	69.52	61.51	7.81
499	704.5	4835130	.04379	.00400	0.00000	.00727	49.90	61.51	-11.61
	98147.1	4460658996	.05153	.00276	.00341	.00727	363.38	61.51	301.87

APPENDIX 1 C

SELECTED GENERAL DATA
ON
KANSAS USDs

BY
WEALTH SUFFICIENCY
TO FUND
ESTIMATED NEED MODEL
FOR
RURAL AND URBAN
SUBGROUPS

APPENDIX 1C: URBAN AND RURAL SUBGROUPS EXAMINED FOR WEALTH SUFFICIENCY TO FUND ESTIMATED NEED AFTER DEBT

URBAN DISTRICTS BY AVAILABLE WEALTH PER PUPIL AT THE ESTIMATED NEED MODEL AFTER DEDUCTING FOR DEBT

USD	FTE	AV 1987	RURAL/URBAN MEAN LEVY C/O + B&I	AFM for R/U GROUPS	ESTIMATED R/U NEED MODEL	AVAILABLE WPP ADJUSTED FOR NEED LESS DEBT
321	1009.1	224298706	.00894	53.30	1064.30	923
214	1500.1	149167192	.00894	53.30	1064.30	(175)
331	1098.7	51413011	.00894	53.30	1064.30	(646)
407	1232.7	56570307	.00894	53.30	1064.30	(654)
375	1163.0	43334984	.00894	53.30	1064.30	(731)
418	2286.3	77023974	.00894	53.30	1064.30	(765)
495	1092.6	35473062	.00894	53.30	1064.30	(774)
466	1102.0	35583300	.00894	53.30	1064.30	(776)
382	1324.0	40663939	.00894	53.30	1064.30	(790)
352	1232.0	36033877	.00894	53.30	1064.30	(803)
260	5206.8	144884706	.00894	53.30	1064.30	(816)
312	1123.5	31168521	.00894	53.30	1064.30	(816)
315	1210.5	33323302	.00894	53.30	1064.30	(818)
512	29068.1	796559111	.00894	53.30	1064.30	(819)
457	5629.1	153976395	.00894	53.30	1064.30	(820)
426	3328.9	89726376	.00894	53.30	1064.30	(823)
480	3391.0	89826767	.00894	53.30	1064.30	(827)
259	43368.5	1110929480	.00894	53.30	1064.30	(835)
229	6595.0	168667464	.00894	53.30	1064.30	(836)
497	7639.6	195279705	.00894	53.30	1064.30	(836)
473	1205.0	30702048	.00894	53.30	1064.30	(837)
415	1100.1	27664377	.00894	53.30	1064.30	(839)
469	3266.1	80071787	.00894	53.30	1064.30	(843)
345	3674.5	78700961	.00894	53.30	1064.30	(856)
333	1354.4	31535351	.00894	53.30	1064.30	(856)
501	14181.7	325760905	.00894	53.30	1064.30	(859)
308	4897.3	111820437	.00894	53.30	1064.30	(860)
309	1472.5	33118199	.00894	53.30	1064.30	(863)
465	2273.1	50910359	.00894	53.30	1064.30	(864)
443	4120.1	91821236	.00894	53.30	1064.30	(865)
493	1231.5	27330226	.00894	53.30	1064.30	(866)
379	1561.6	33961009	.00894	53.30	1064.30	(870)
383	5848.6	123846961	.00894	53.30	1064.30	(875)
313	2145.5	45166262	.00894	53.30	1064.30	(876)
490	2017.0	41954725	.00894	53.30	1064.30	(878)
101	1104.5	22376856	.00894	53.30	1064.30	(883)
437	3319.6	66379379	.00894	53.30	1064.30	(886)
413	1943.0	38690813	.00894	53.30	1064.30	(886)
446	2343.8	46610250	.00894	53.30	1064.30	(887)
368	1442.6	28356915	.00894	53.30	1064.30	(889)
305	6675.8	130025743	.00894	53.30	1064.30	(890)
416	1024.0	19855813	.00894	53.30	1064.30	(891)
470	2967.4	57472165	.00894	53.30	1064.30	(891)

409	1677.1	32278259	.00894	53.30	1064.30	(892)
231	1656.2	31601966	.00894	53.30	1064.30	(894)
233	4460.5	82945104	.00894	53.30	1064.30	(895)
435	1386.5	25682961	.00894	53.30	1064.30	(899)
265	1854.7	34073587	.00894	53.30	1064.30	(900)
445	2765.6	50707784	.00894	53.30	1064.30	(900)
233	12139.6	216122462	.00894	53.30	1064.30	(905)
373	3035.7	52972852	.00894	53.30	1064.30	(908)
234	2046.5	35288463	.00894	53.30	1064.30	(910)
365	1564.0	26682188	.00894	53.30	1064.30	(912)
450	3226.5	54215264	.00894	53.30	1064.30	(914)
257	1746.0	29248558	.00894	53.30	1064.30	(915)
506	1605.1	26801962	.00894	53.30	1064.30	(915)
267	1383.5	22491285	.00894	53.30	1064.30	(919)
320	1176.1	19063197	.00894	53.30	1064.30	(919)
290	2135.5	34353026	.00894	53.30	1064.30	(920)
248	1039.0	16466831	.00894	53.30	1064.30	(923)
250	2909.0	44687535	.00894	53.30	1064.30	(927)
353	1884.0	28665817	.00894	53.30	1064.30	(928)
204	2073.0	31441142	.00894	53.30	1064.30	(929)
503	1957.5	29621570	.00894	53.30	1064.30	(929)
500	22131.4	326875449	.00894	53.30	1064.30	(932)
453	4260.3	62118557	.00894	53.30	1064.30	(934)
402	1813.5	26096927	.00894	53.30	1064.30	(936)
307	1096.0	15712899	.00894	53.30	1064.30	(936)
464	1251.0	17680023	.00894	53.30	1064.30	(938)
202	3836.1	53148939	.00894	53.30	1064.30	(940)
266	1740.1	23585193	.00894	53.30	1064.30	(943)
261	3117.8	41372600	.00894	53.30	1064.30	(946)
262	1882.0	24968380	.00894	53.30	1064.30	(946)
458	1150.6	14656197	.00894	53.30	1064.30	(950)
232	1651.8	20937425	.00894	53.30	1064.30	(951)
434	1215.2	14450326	.00894	53.30	1064.30	(958)
354	1233.0	13343104	.00894	53.30	1064.30	(963)
230	1212.5	12795266	.00894	53.30	1064.30	(970)
469	1461.5	15202944	.00894	53.30	1064.30	(971)
475	6557.7	61729817	.00894	53.30	1064.30	(980)
263	1803.0	16225664	.00894	53.30	1064.30	(984)
TOTAL	301608.0	6794442983	.00894 Mn	53.30 Mn	1064.30 Mn	-549.22 Mn

RURAL DISTRICTS BY AVAILABLE WEALTH PER PUPIL AT THE ESTIMATED NEED MODEL AFTER DEDUCTING FOR DEBT

244	765.6	493247327	.00672	83.50	611.30	5,715
209	145.3	61573700	.00672	83.50	611.30	2,236
217	216.0	57832171	.00672	83.50	611.30	1,186
215	685.0	138878950	.00672	83.50	611.30	751
507	382.0	73310681	.00672	83.50	611.30	678
210	897.5	172138611	.00672	83.50	611.30	678
303	605.5	110847385	.00672	83.50	611.30	619
216	254.5	44148764	.00672	83.50	611.30	554

220	401.5	58155719	.00672	83.50	611.30	362
452	493.0	69907958	.00672	83.50	611.30	286
362	760.3	101714100	.00672	83.50	611.30	205
220	237.7	28655649	.00672	83.50	611.30	199
301	91.0	10940580	.00672	83.50	611.30	197
424	118.0	13804876	.00672	83.50	611.30	175
332	307.0	34501228	.00672	83.50	611.30	145
399	170.5	18988252	.00672	83.50	611.30	137
275	108.5	10255602	.00672	83.50	611.30	24
328	475.5	44532540	.00672	83.50	611.30	18
351	282.0	26168374	.00672	83.50	611.30	12
200	336.7	30626428	.00672	83.50	611.30	(0)
401	173.0	15502771	.00672	83.50	611.30	(5)
474	146.0	12794336	.00672	83.50	611.30	(22)
468	119.0	10398531	.00672	83.50	611.30	(24)
470	122.0	10639601	.00672	83.50	611.30	(25)
494	419.0	36436565	.00672	83.50	611.30	(27)
299	208.5	18069184	.00672	83.50	611.30	(28)
374	490.0	41981130	.00672	83.50	611.30	(36)
269	188.0	15884436	.00672	83.50	611.30	(44)
304	123.5	9767700	.00672	83.50	611.30	(80)
228	139.0	10641709	.00672	83.50	611.30	(97)
218	596.0	45462536	.00672	83.50	611.30	(99)
242	108.5	8207005	.00672	83.50	611.30	(103)
300	420.5	31304357	.00672	83.50	611.30	(110)
345	364.0	26653509	.00672	83.50	611.30	(119)
219	203.5	14774257	.00672	83.50	611.30	(120)
103	225.5	16082626	.00672	83.50	611.30	(132)
496	152.0	10699755	.00672	83.50	611.30	(138)
227	243.5	17112582	.00672	83.50	611.30	(139)
354	222.5	15509823	.00672	83.50	611.30	(143)
255	314.0	21866431	.00672	83.50	611.30	(145)
502	189.0	13071900	.00672	83.50	611.30	(147)
280	124.0	8466891	.00672	83.50	611.30	(152)
305	322.5	21912017	.00672	83.50	611.30	(155)
314	149.5	10033599	.00672	83.50	611.30	(159)
444	386.0	25252713	.00672	83.50	611.30	(172)
225	169.0	10773754	.00672	83.50	611.30	(183)
317	73.5	4578880	.00672	83.50	611.30	(193)
483	560.0	34398913	.00672	83.50	611.30	(199)
302	204.5	12492110	.00672	83.50	611.30	(201)
326	227.5	13756829	.00672	83.50	611.30	(205)
438	353.8	20919817	.00672	83.50	611.30	(214)
482	367.0	20346568	.00672	83.50	611.30	(239)
511	234.0	12919652	.00672	83.50	611.30	(240)
477	220.0	11989562	.00672	83.50	611.30	(245)
270	489.0	26003844	.00672	83.50	611.30	(246)
291	147.5	7945040	.00672	83.50	611.30	(247)
271	406.0	21274100	.00672	83.50	611.30	(259)
274	475.5	24746636	.00672	83.50	611.30	(262)
184	205.0	10645149	.00672	83.50	611.30	(262)
221	172.5	8866507	.00672	83.50	611.30	(266)
467	563.0	28907353	.00672	83.50	611.30	(266)
292	210.5	10759041	.00672	83.50	611.30	(268)

316	142.5	7260366	.00672	83.50	611.30	(269)
492	234.0	11873430	.00672	83.50	611.30	(270)
371	210.5	10680676	.00672	83.50	611.30	(270)
422	430.0	21407373	.00672	83.50	611.30	(277)
403	352.0	17145671	.00672	83.50	611.30	(284)
295	119.5	5762856	.00672	83.50	611.30	(287)
213	123.0	6173979	.00672	83.50	611.30	(287)
390	141.5	6818399	.00672	83.50	611.30	(287)
368	352.5	16940246	.00672	83.50	611.30	(288)
254	802.0	38090956	.00672	83.50	611.30	(292)
455	152.5	7198536	.00672	83.50	611.30	(294)
223	364.5	16078945	.00672	83.50	611.30	(295)
281	504.6	23635372	.00672	83.50	611.30	(297)
284	540.5	25135780	.00672	83.50	611.30	(299)
350	429.0	19710461	.00672	83.50	611.30	(303)
334	265.0	11967854	.00672	83.50	611.30	(306)
298	401.0	18080733	.00672	83.50	611.30	(306)
241	322.0	14164066	.00672	83.50	611.30	(316)
397	294.5	12842128	.00672	83.50	611.30	(318)
459	284.0	12266609	.00672	83.50	611.30	(321)
293	320.5	13817096	.00672	83.50	611.30	(322)
471	159.5	6868303	.00672	83.50	611.30	(322)
349	283.5	11589551	.00672	83.50	611.30	(327)
359	212.5	8841247	.00672	83.50	611.30	(332)
224	403.4	16741572	.00672	83.50	611.30	(332)
306	657.1	27173399	.00672	83.50	611.30	(333)
347	378.7	15186857	.00672	83.50	611.30	(342)
431	691.0	27659661	.00672	83.50	611.30	(342)
208	607.5	24512310	.00672	83.50	611.30	(342)
361	985.5	38843157	.00672	83.50	611.30	(346)
294	582.5	22948867	.00672	83.50	611.30	(347)
279	198.5	7587161	.00672	83.50	611.30	(354)
222	446.9	17021619	.00672	83.50	611.30	(355)
355	552.1	20933582	.00672	83.50	611.30	(356)
423	426.0	15939512	.00672	83.50	611.30	(360)
310	516.0	19147276	.00672	83.50	611.30	(362)
426	259.0	9465551	.00672	83.50	611.30	(366)
245	319.5	11637231	.00672	83.50	611.30	(367)
324	168.0	6117627	.00672	83.50	611.30	(367)
361	251.5	9115444	.00672	83.50	611.30	(368)
285	702.0	7198490	.00672	83.50	611.30	(372)
386	288.0	10261054	.00672	83.50	611.30	(372)
419	384.5	13469367	.00672	83.50	611.30	(376)
297	419.0	14668970	.00672	83.50	611.30	(376)
366	560.0	19598346	.00672	83.50	611.30	(376)
206	506.0	17447915	.00672	83.50	611.30	(380)
212	203.5	6991725	.00672	83.50	611.30	(380)
102	578.0	19834212	.00672	83.50	611.30	(381)
452	405.5	13792788	.00672	83.50	611.30	(382)
392	475.5	16147636	.00672	83.50	611.30	(383)
318	472.5	15939619	.00672	83.50	611.30	(385)
237	642.5	21845287	.00672	83.50	611.30	(386)
311	263.5	8673539	.00672	83.50	611.30	(389)
256	333.0	10912236	.00672	83.50	611.30	(391)

427	605.5	19818703	.00672	83.50	611.30	(391)
273	780.0	25426604	.00672	83.50	611.30	(392)
300	301.0	9793442	.00672	83.50	611.30	(393)
448	386.5	12565908	.00672	83.50	611.30	(393)
405	750.1	24012707	.00672	83.50	611.30	(396)
466	326.5	10422576	.00672	83.50	611.30	(397)
325	711.5	22665326	.00672	83.50	611.30	(397)
442	378.1	12033020	.00672	83.50	611.30	(397)
393	303.0	9611881	.00672	83.50	611.30	(398)
237	643.0	20387821	.00672	83.50	611.30	(398)
238	208.5	6589196	.00672	83.50	611.30	(399)
389	691.5	21894853	.00672	83.50	611.30	(399)
384	248.5	7832754	.00672	83.50	611.30	(399)
412	529.0	16625938	.00672	83.50	611.30	(400)
365	967.6	30396330	.00672	83.50	611.30	(400)
329	522.4	16466838	.00672	83.50	611.30	(400)
369	268.0	8402979	.00672	83.50	611.30	(401)
479	257.5	8011564	.00672	83.50	611.30	(402)
509	215.5	6639020	.00672	83.50	611.30	(404)
252	482.0	14828157	.00672	83.50	611.30	(405)
481	375.8	11538558	.00672	83.50	611.30	(405)
460	742.6	22721326	.00672	83.50	611.30	(406)
400	794.5	24118570	.00672	83.50	611.30	(407)
272	547.0	16303704	.00672	83.50	611.30	(411)
433	199.5	5904453	.00672	83.50	611.30	(412)
486	251.0	7410261	.00672	83.50	611.30	(413)
364	900.0	26287915	.00672	83.50	611.30	(415)
462	409.5	11708442	.00672	83.50	611.30	(419)
264	942.5	26858120	.00672	83.50	611.30	(420)
417	972.5	27121605	.00672	83.50	611.30	(424)
240	481.7	13391946	.00672	83.50	611.30	(424)
376	541.1	15009149	.00672	83.50	611.30	(425)
410	596.7	16547315	.00672	83.50	611.30	(425)
395	412.5	11411769	.00672	83.50	611.30	(425)
251	660.2	18322952	.00672	83.50	611.30	(430)
258	620.0	16609438	.00672	83.50	611.30	(431)
380	599.0	15865127	.00672	83.50	611.30	(433)
406	539.5	14102673	.00672	83.50	611.30	(436)
283	177.5	4628351	.00672	83.50	611.30	(436)
498	391.2	10093058	.00672	83.50	611.30	(438)
327	710.8	18246068	.00672	83.50	611.30	(439)
322	413.5	10607277	.00672	83.50	611.30	(439)
484	891.0	22403318	.00672	83.50	611.30	(442)
387	388.0	9717134	.00672	83.50	611.30	(443)
346	544.0	13271393	.00672	83.50	611.30	(447)
307	334.0	8127226	.00672	83.50	611.30	(448)
356	399.5	9711868	.00672	83.50	611.30	(448)
265	682.0	14342019	.00672	83.50	611.30	(450)
411	248.3	5930241	.00672	83.50	611.30	(451)
278	310.0	7377076	.00672	83.50	611.30	(451)
268	537.5	12703674	.00672	83.50	611.30	(452)
222	450.0	10130318	.00672	83.50	611.30	(453)
286	501.0	11701541	.00672	83.50	611.30	(454)
451	220.0	5137652	.00672	83.50	611.30	(454)

441	941.0	21871724	.00672	83.50	611.30	(455)
330	558.0	12531644	.00672	83.50	611.30	(460)
504	458.0	10224768	.00672	83.50	611.30	(461)
358	402.5	8809426	.00672	83.50	611.30	(464)
235	478.5	10184310	.00672	83.50	611.30	(468)
440	716.0	15156397	.00672	83.50	611.30	(469)
377	778.0	16125474	.00672	83.50	611.30	(472)
211	706.5	14405468	.00672	83.50	611.30	(474)
243	486.5	9627717	.00672	83.50	611.30	(476)
420	629.0	12260552	.00672	83.50	611.30	(480)
378	[illegible] 1.5	10000887	.00672	83.50	611.30	(481)
421	378.5	7262025	.00672	83.50	611.30	(482)
436	804.7	14745119	.00672	83.50	611.30	(486)
456	329.5	6018134	.00672	83.50	611.30	(489)
463	360.0	6517166	.00672	83.50	611.30	(490)
430	643.7	11642302	.00672	83.50	611.30	(490)
287	726.5	13130877	.00672	83.50	611.30	(490)
461	781.0	13812733	.00672	83.50	611.30	(492)
288	498.0	8713964	.00672	83.50	611.30	(494)
425	295.5	5133198	.00672	83.50	611.30	(495)
247	779.5	13523666	.00672	83.50	611.30	(495)
342	481.5	8330351	.00672	83.50	611.30	(495)
341	529.0	9067162	.00672	83.50	611.30	(496)
339	379.9	6551642	.00672	83.50	611.30	(499)
487	560.6	9331237	.0[illegible]	83.50	611.30	(499)
323	577.5	9570873	.00672	83.50	611.30	(500)
404	745.9	12327327	.00672	83.50	611.30	(500)
343	855.5	14095903	.00672	83.50	611.30	(501)
449	638.0	10438211	.00672	83.50	611.30	(501)
289	667.7	10660544	.00672	83.50	611.30	(504)
336	887.5	13778108	.00672	83.50	611.30	(507)
505	312.0	4687727	.00672	83.50	611.30	(510)
372	601.0	8936539	.00672	83.50	611.30	(511)
335	465.5	6795238	.00672	83.50	611.30	(513)
249	420.5	6072170	.00672	83.50	611.30	(514)
346	918.2	12669100	.00672	83.50	611.30	(517)
454	342.0	4709609	.00672	83.50	611.30	(519)
447	640.5	8766787	.00672	83.50	611.30	(519)
439	399.0	5411534	.00672	83.50	611.30	(520)
396	685.2	9134452	.00672	83.50	611.30	(522)
344	412.0	5458977	.00672	83.50	611.30	(522)
340	715.5	9143616	.00672	83.50	611.30	(525)
246	587.5	7245186	.00672	83.50	611.30	(528)
508	859.0	10519006	.00672	83.50	611.30	(529)
429	382.5	4662137	.00672	83.50	611.30	(529)
338	460.9	5609540	.00672	83.50	611.30	(530)
357	674.0	8068652	.00672	83.50	611.30	(531)
406	480.9	5260115	.00672	83.50	611.30	(538)
337	768.1	8203445	.00672	83.50	611.30	(540)
203	964.0	9785527	.00672	83.50	611.30	(543)
491	783.2	7467929	.00672	83.50	611.30	(547)
499	704.5	4835130	.00672	83.50	611.30	(565)
TOTAL	98147.1	4460636996	.00672 Mn	83.50 Mn	611.30 Mn	-275.41 Mn

APPENDIX 2 A

TOTAL LOCAL CONTROL

BY

DISTRICT NUMBER

APPENDIX 2A: TOTAL LOCAL CONTROL DATA ARRAYED BY DISTRICT NUMBER

USD	FTE	AV 1987	STATE APM CO + BI MILLS	WPP @ STATE MN LEVY	DISCREPCY BETWN LOCAL WPP:MEAN	RLMR TO FUND ST. MEAN	ESTIMATE R/U NEED MODEL	RLM TO FUND NEED	WPP - NEED ADJ. FOR DEBT
101	1104.5	22376356	.00727	147	85.77	.00304	1064.30	.05253	(883)
102	578.0	19834212	.00727	249	187.96	.00179	611.30	.01781	(381)
103	225.5	16082626	.00727	518	456.99	.00086	611.30	.00557	(132)
104	205.0	10645149	.00727	378	316.00	.00118	611.30	.01177	(262)
200	336.7	30626428	.00727	661	599.77	.00068	611.30	.00672	(0)
202	3836.1	53148939	.00727	101	39.22	.00444	1064.30	.07682	(940)
203	764.0	9785527	.00727	74	12.29	.00606	611.30	.06022	(548)
204	2073.0	31441142	.00727	110	48.75	.00406	1064.30	.07017	(929)
205	682.0	16342019	.00727	174	112.69	.00257	611.30	.02551	(459)
206	506.0	17447915	.00727	251	189.17	.00178	611.30	.01773	(386)
208	607.5	24312310	.00727	291	229.44	.00154	611.30	.01527	(342)
209	145.3	61573700	.00727	3081	3019.29	.00015	611.30	.00144	2,256
210	897.5	172138611	.00727	1394	1332.86	.00032	611.30	.00319	678
211	706.5	14405468	.00727	148	86.72	.00302	611.30	.02998	(474)
212	203.5	6991725	.00727	250	188.27	.00179	611.30	.01779	(380)
213	128.0	6173979	.00727	351	289.15	.00128	611.30	.01267	(257)
214	1500.1	149167192	.00727	723	661.41	.00062	1064.30	.01070	(175)
215	685.0	158878950	.00727	1474	1412.43	.00030	611.30	.00302	751
216	254.5	44148764	.00727	1261	1199.64	.00035	611.30	.00352	554
217	216.0	57832171	.00727	1946	1884.97	.00023	611.30	.00228	1,138
218	596.0	45462536	.00727	555	493.04	.00081	611.30	.00801	(99)
219	203.5	14774257	.00727	528	466.30	.00085	611.30	.00842	(123)
220	237.7	28655649	.00727	876	814.92	.00051	611.30	.00507	199
221	172.5	8866507	.00727	374	312.17	.00120	611.30	.01189	(266)
222	430.0	10130318	.00727	171	109.76	.00261	611.30	.02595	(451)
223	384.5	18078945	.00727	342	280.32	.00131	611.30	.01300	(275)
224	403.4	16741572	.00727	302	240.20	.00148	611.30	.01473	(332)
225	169.0	10773754	.00727	463	401.95	.00096	611.30	.00957	(183)
226	401.5	58155719	.00727	1053	991.52	.00042	611.30	.00422	362
227	248.5	17112382	.00727	511	449.40	.00088	611.30	.00870	(139)
228	139.0	10641709	.00727	557	495.07	.00080	611.30	.00798	(97)
229	6595.0	168667464	.00727	186	124.42	.00241	1064.30	.04161	(836)
230	1212.5	12795266	.00727	77	15.21	.00583	1064.30	.10085	(970)
231	1656.2	31601966	.00727	139	77.21	.00322	1064.30	.05578	(894)
232	1651.8	20937425	.00727	92	30.64	.00485	1064.30	.08396	(951)
233	12139.6	216122462	.00727	129	67.92	.00346	1064.30	.05976	(905)
234	2046.5	35288463	.00727	125	63.85	.00357	1064.30	.06172	(910)
235	478.5	10184310	.00727	155	93.22	.00289	611.30	.02872	(468)
237	643.0	20389821	.00727	231	169.02	.00194	611.30	.01928	(398)
238	208.5	6539196	.00727	230	168.24	.00195	611.30	.01934	(399)
239	642.5	21345287	.00727	242	180.02	.00185	611.30	.01840	(388)
240	481.7	13591946	.00727	202	140.61	.00221	611.30	.02199	(424)
241	322.0	141640..	.00727	320	258.28	.00140	611.30	.01390	(316)
242	108.5	8207005	.00727	550	488.40	.00081	611.30	.00808	(103)
243	486.5	9627717	.00727	144	82.36	.00311	611.30	.03089	(478)
244	765.6	493247327	.00727	4684	4622.28	.00010	611.30	.00095	3,718
245	319.5	11637231	.00727	265	203.29	.00169	611.30	.01678	(367)

246	587.5	7245186	.00727	90	28.15	.00499	611.30	.04557	(526)
247	779.5	13523666	.00727	126	64.62	.00355	611.30	.03524	(495)
248	1039.0	16466831	.00727	115	53.71	.00368	1064.30	.06715	(923)
249	.420.5	6072170	.00727	105	43.47	.00426	611.30	.04253	(514)
250	2909.0	44087539	.00727	112	50.17	.00400	1064.30	.06525	(727)
251	660.2	18322952	.00727	196	134.33	.00228	611.30	.02269	(450)
252	482.0	14828157	.00727	224	162.14	.00200	611.30	.01987	(405)
253	4460.5	82945104	.00727	135	73.68	.00331	1064.30	.05723	(898)
254	802.0	38090956	.00727	345	283.78	.00130	611.30	.01287	(292)
255	314.0	21866431	.00727	506	444.76	.00088	611.30	.00878	(143)
256	333.0	10912236	.00727	238	176.72	.00188	611.30	.01865	(391)
257	1746.0	29248558	.00727	122	60.28	.00367	1064.30	.06353	(915)
258	620.0	16609438	.00727	195	133.25	.00250	611.30	.02282	(451)
259	43366.5	1110929480	.00727	186	124.72	.00240	1064.30	.04155	(835)
260	5206.8	144884706	.00727	202	140.79	.00221	1064.30	.03825	(816)
261	3117.8	41372600	.00727	96	34.96	.00464	1064.30	.08020	(946)
262	1882.0	24968380	.00727	96	34.94	.00464	1064.30	.08022	(946)
263	1803.0	16225864	.00727	65	3.91	.00684	1064.30	.11827	(954)
264	942.5	26858120	.00727	207	145.66	.00216	611.30	.02145	(420)
265	1854.7	34073587	.00727	134	72.05	.00335	1064.30	.05793	(900)
266	1740.1	25585193	.00727	99	37.03	.00454	1064.30	.07852	(943)
267	1383.5	22491285	.00727	118	56.68	.00378	1064.30	.06547	(919)
268	537.5	12703674	.00727	172	110.31	.00260	611.30	.02586	(452)
269	188.0	15884436	.00727	614	552.74	.00073	611.30	.00724	(44)
270	489.0	26603844	.00727	396	334.01	.00113	611.30	.01124	(246)
271	406.0	21274100	.00727	381	319.43	.00117	611.30	.01167	(259)
272	.547.0	16303704	.00727	217	155.18	.00206	611.30	.02051	(411)
273	780.0	25426604	.00727	237	175.48	.00189	611.30	.01875	(392)
274	475.5	24746636	.00727	378	316.85	.00118	611.30	.01175	(262)
275	108.5	10255602	.00727	687	625.66	.00065	611.30	.00647	24
278	310.0	7377076	.00727	173	111.49	.00258	611.30	.02569	(451)
279	198.5	7587161	.00727	278	216.37	.00161	611.30	.01599	(354)
280	124.0	8466891	.00727	496	434.90	.00090	611.30	.00895	(152)
281	504.0	23035872	.00727	341	279.02	.00131	611.30	.01305	(287)
282	446.9	17321619	.00727	277	215.39	.00161	611.30	.01605	(355)
283	177.5	4628351	.00727	190	128.06	.00236	611.30	.02344	(436)
284	540.5	25133780	.00727	338	276.55	.00132	611.30	.01315	(299)
285	202.0	7198490	.00727	259	197.56	.00173	611.30	.01715	(372)
286	501.0	11701541	.00727	170	108.29	.00263	611.30	.02617	(454)
287	726.5	13130877	.00727	131	69.89	.00340	611.30	.03382	(490)
288	498.0	8713964	.00727	127	65.70	.00352	611.30	.03494	(494)
289	667.7	10660544	.00727	116	54.56	.00385	611.30	.03829	(504)
290	2135.5	34353026	.00727	117	55.44	.00382	1064.30	.06616	(920)
291	147.5	7945040	.00727	392	330.09	.00114	611.30	.01135	(249)
292	210.5	10759041	.00727	372	310.07	.00120	611.30	.01196	(268)
293	320.5	13817096	.00727	313	251.91	.00143	611.30	.01418	(322)
294	582.5	22948867	.00727	286	224.91	.00156	611.30	.01552	(347)
295	119.3	5762856	.00727	351	289.52	.00127	611.30	.01266	(287)
297	419.0	14668970	.00727	255	193.01	.00176	611.30	.01746	(376)
298	401.0	18080733	.00727	328	266.29	.00136	611.30	.01356	(303)
299	208.5	18069184	.00727	630	568.53	.00071	611.30	.00705	(29)
300	420.5	31364357	.00727	542	480.75	.00082	611.30	.00820	(110)
301	91.0	10940580	.00727	874	812.53	.00051	611.30	.00508	197
302	204.5	12492110	.00727	444	382.59	.00101	611.30	.01001	(261)

303	322.5	21912017	.00727	494	432.44	.00091	611.30	.00900	(155)
304	123.5	9767700	.00727	575	513.48	.00078	611.30	.00773	(80)
305	6675.8	130025743	.00727	142	80.09	.00516	1064.30	.05464	(890)
306	657.1	27173599	.00727	301	239.13	.00149	611.30	.01478	(333)
307	334.0	8127226	.00727	177	115.39	.00253	611.30	.02512	(445)
308	4897.3	111820437	.00727	166	104.49	.00269	1064.30	.04661	(850)
309	1472.5	33118199	.00727	164	102.00	.00273	1064.30	.04732	(863)
310	516.0	19147276	.00727	270	208.26	.00166	611.30	.01647	(362)
311	263.5	8673539	.00727	239	177.79	.00187	611.30	.01857	(390)
312	1123.5	31188521	.00727	202	140.31	.00222	1064.30	.03834	(816)
313	2145.5	45166262	.00727	153	91.54	.00292	1064.30	.05056	(876)
314	149.5	10055999	.00727	489	427.50	.00091	611.30	.00909	(159)
315	1210.5	33323302	.00727	200	138.62	.00223	1064.30	.03866	(818)
316	142.5	7260366	.00727	370	308.90	.00121	611.30	.01200	(269)
317	73.5	4578880	.00727	453	391.39	.00099	611.30	.00981	(193)
318	472.5	15939619	.00727	245	183.74	.00182	611.30	.01812	(385)
320	1176.1	19083197	.00727	118	56.45	.00379	1064.30	.06559	(915)
321	1009.1	224298706	.00727	1616	1554.44	.00028	1064.30	.00479	923
322	413.5	10607277	.00727	186	124.98	.00240	611.30	.02383	(439)
323	577.5	9570873	.00727	120	58.98	.00371	611.30	.03689	(506)
324	168.0	6117627	.00727	265	203.22	.00169	611.30	.01679	(367)
325	711.5	22685326	.00727	232	170.29	.00193	611.30	.01917	(397)
326	227.5	13756829	.00727	440	378.10	.00102	611.30	.01011	(265)
327	710.8	18246068	.00727	187	125.11	.00240	611.30	.02381	(439)
328	475.5	44532540	.00727	681	619.36	.00066	611.30	.00653	18
329	522.4	16406838	.00727	228	166.82	.00196	611.30	.01946	(400)
330	558.0	12531644	.00727	163	101.76	.00274	611.30	.02722	(460)
331	1098.7	51413011	.00727	340	278.69	.00131	1064.30	.02274	(644)
332	307.0	34561228	.00727	818	756.93	.00055	611.30	.00543	145
333	1354.4	31535351	.00727	169	107.76	.00264	1064.30	.04571	(856)
334	265.0	11967894	.00727	328	266.82	.00136	611.30	.01354	(308)
335	465.5	6795238	.00727	106	44.62	.00421	611.30	.04188	(513)
336	687.5	13778108	.00727	113	51.35	.00396	611.30	.03938	(507)
337	768.1	8203445	.00727	78	16.13	.00576	611.30	.05724	(540)
338	460.9	5609540	.00727	88	26.97	.00505	611.30	.05023	(530)
339	379.9	6351642	.00727	122	60.04	.00368	611.30	.03656	(499)
340	715.5	9143616	.00727	93	31.40	.00481	611.30	.04784	(525)
341	529.0	9067162	.00727	125	63.10	.00359	611.30	.03566	(496)
342	481.5	8330351	.00727	126	64.27	.00356	611.30	.03533	(495)
343	855.5	14095903	.00727	120	58.28	.00373	611.30	.03710	(501)
344	412.0	5458977	.00727	96	34.82	.00464	611.30	.04614	(522)
345	3374.5	78700961	.00727	170	108.04	.00264	1064.30	.04563	(856)
346	544.0	13271393	.00727	177	115.85	.00252	611.30	.02506	(447)
347	378.7	15186857	.00727	292	230.04	.00155	611.30	.01524	(342)
348	918.2	12669100	.00727	100	38.80	.00446	611.30	.04450	(519)
349	283.5	11989551	.00727	307	245.95	.00145	611.30	.01445	(327)
350	429.0	19710461	.00727	334	272.51	.00134	611.30	.01331	(305)
351	282.0	20168374	.00727	675	613.11	.00066	611.30	.00659	12
352	1232.0	36033877	.00727	213	151.12	.00210	1064.30	.03659	(803)
353	1884.0	28665817	.00727	111	49.11	.00404	1064.30	.06995	(928)
354	222.5	15509823	.00727	507	445.26	.00088	611.30	.00877	(145)
355	552.1	20938582	.00727	276	214.21	.00162	611.30	.01612	(356)
356	399.5	9711868	.00727	177	115.22	.00253	611.30	.02515	(448)
357	674.0	8068652	.00727	87	25.52	.00514	611.30	.05106	(531)

358	402.5	8809426	.00727	159	97.61	.00281	611.30	.02795	(464)
359	212.5	8841247	.00727	302	240.96	.00148	611.30	.01469	(352)
360	301.0	9793442	.00727	237	175.03	.00189	611.30	.01879	(393
361	985.5	38843157	.00727	287	225.03	.00156	611.30	.0155.	(346)
362	780.3	101714100	.00727	948	886.15	.00047	611.30	.0046[illegible]	265
363	605.5	110847385	.00727	1331	1269.39	.00034	611.30	.00354	617
364	900.0	26287915	.00727	212	150.84	.00211	611.30	.02093	(415)
365	967.6	30396330	.00727	228	166.87	.00196	611.30	.01946	(400)
366	560.0	19598346	.00727	254	192.92	.00176	611.30	.01747	(376)
367	1096.0	15712899	.00727	104	42.72	.00429	1064.30	.07424	(956)
368	1442.6	28356915	.00727	143	81.40	.00313	1064.30	.05414	(869)
369	268.0	8402979	.00727	228	166.44	.00196	611.30	.01950	(401)
371	210.5	10680676	.00727	369	307.37	.00121	611.30	.01205	(270)
372	601.0	8936539	.00727	108	46.59	.00414	611.30	.04111	(511)
373	3035.7	52972852	.00727	127	65.35	.00352	1064.30	.06099	(905)
374	490.0	41981130	.00727	623	561.35	.00072	611.30	.00714	(5[illegible]
375	1163.0	43334984	.00727	271	209.36	.00165	1064.30	.02856	(751)
376	541.1	15009149	.00727	202	140.15	.00222	611.30	.02204	(425)
377	778.0	16125474	.00727	151	89.17	.00297	611.30	.02949	(472)
378	514.5	10000887	.00727	141	79.80	.00316	611.30	.03145	(481)
379	1561.6	33961009	.00727	158	96.59	.00283	1064.30	.04894	(870)
380	599.0	15865127	.00727	193	131.04	.00232	611.3[illegible]	.02308	(438)
381	251.5	9115444	.00727	263	201.99	.00170	611.30	.01687	(368)
382	1324.0	40663939	.00727	223	161.77	.00200	1064.30	.03465	(750)
383	5848.6	123846961	.00727	154	92.44	.00290	1064.30	.05026	(575)
384	248.5	7832754	.00727	229	167.64	.00195	611.30	.01939	(399)
385	1564.0	26682188	.00727	124	62.52	.00361	1064.30	.06258	(912)
386	288.0	10261054	.00727	259	197.51	.00173	611.30	.01716	(372)
387	388.0	9717134	.00727	182	120.56	.00246	611.30	.02441	(443)
388	352.5	16940246	.00727	349	287.87	.00128	611.30	.01272	(288)
389	691.5	21804853	.00727	229	167.73	.00195	611.30	.01939	(399)
390	141.5	6818399	.00727	350	288.81	.00128	611.30	.01269	(287)
392	475.5	16147636	.00727	247	185.37	.00181	611.30	.01800	(383)
393	303.0	9611881	.00727	231	169.11	.00194	611.30	.01927	(398
394	1233.9	13343104	.00727	79	17.16	.00508	1064.30	.07835	(968)
395	364.0	26653509	.00727	532	470.83	.00084	611.30	.00835	(214)
396	685.2	9134452	.00727	97	35.41	.00461	611.30	.04586	(522)
397	294.5	12842128	.00727	317	255.51	.00141	611.30	.01402	(318)
398	412.5	11411769	.00727	201	139.61	.00222	611.30	.02210	(425)
399	170.5	18988252	.00727	810	748.14	.00055	611.30	.00549	137
400	794.5	24118570	.00727	221	159.18	.00203	611.30	.02014	(407)
401	173.0	15502771	.00727	651	589.96	.00069	611.30	.00682	(9)
402	1813.5	26096927	.00727	105	43.11	.00427	1064.30	.07396	(936)
403	352.0	17145671	.00727	354	292.61	.00126	611.30	.01255	(284)
404	745.9	12327327	.00727	120	58.64	.00372	611.30	.03699	(590)
405	750.1	24012707	.00727	233	171.22	.00192	611.30	.01910	(396)
406	480.9	5260115	.00727	80	18.01	.00562	611.30	.05587	(538)
407	1232.7	56570307	.00727	334	272.12	.00134	1064.30	.02319	(854)
408	539.5	14102673	.00727	190	128.53	.00235	611.30	.02339	(436)
409	1677.1	32276259	.00727	140	78.41	.00320	1064.30	.05530	(892)
410	596.7	16547315	.00727	202	140.10	.00222	611.30	.02204	(425)
411	248.3	5930241	.00727	174	112.12	.00258	611.30	.02560	(451)
412	529.0	16625938	.00727	228	166.98	.00196	611.30	.01945	(400)
413	1943.0	38690813	.00727	145	83.26	.00309	1064.30	.05345	(886)

415	1100.1	27684377	.00727	183	121.44	.00244	1064.30	.04229	(839)
416	1024.0	19888813	.00727	141	79.69	.00317	1064.30	.05430	(698)
417	972.5	27121605	.00727	203	141.24	.00221	611.30	.02192	(424)
418	2288.3	77023974	.00727	245	183.20	.00183	1064.30	.03162	(765)
419	384.5	13469387	.00727	255	193.16	.00176	611.30	.01745	(376)
420	629.0	12260552	.00727	142	80.20	.00316	611.30	.03136	(486)
421	378.5	7262025	.00727	139	77.97	.00321	611.30	.03186	(482)
422	430.0	21407373	.00727	362	300.42	.00124	611.30	.01228	(277)
423	426.0	15939512	.00727	272	210.51	.00164	611.30	.01634	(360)
424	118.0	13804876	.00727	851	789.01	.00053	611.30	.00523	175
425	295.5	5133198	.00727	126	64.78	.00354	611.30	.03319	(455)
426	259.0	9465551	.00727	266	204.18	.00168	611.30	.01673	(365)
427	605.5	19818703	.00727	238	176.45	.00188	611.30	.01868	(391)
428	3328.9	89728376	.00727	196	134.45	.00228	1064.30	.03949	(823)
429	382.5	4662137	.00727	89	27.10	.00505	611.30	.05015	(529)
430	643.7	11642302	.00727	131	69.98	.00340	611.30	.03389	(490)
431	671.0	27659661	.00727	291	229.50	.00154	611.30	.01527	(342)
432	403.5	13792783	.00727	249	187.00	.00180	611.30	.01788	(382)
433	199.5	5904453	.00727	215	153.65	.00208	611.30	.02065	(412)
434	1215.2	14450326	.00727	86	24.94	.00517	1064.30	.08950	(958)
435	1386.5	25682961	.00727	135	73.16	.00332	1064.30	.05746	(899)
436	804.7	14945119	.00727	135	73.51	.00331	611.30	.03291	(486)
437	3519.6	66379379	.00727	145	83.86	.00308	1064.30	.05323	(886)
438	333.8	20919817	.00727	430	368.36	.00104	611.30	.01054	(214)
439	399.0	5411534	.00727	99	37.09	.00454	611.30	.04597	(520)
440	718.0	15156397	.00727	153	91.55	.00291	611.30	.02896	(469)
441	941.0	21871724	.00727	169	107.47	.00265	611.30	.02630	(455)
442	378.1	12033020	.00727	231	169.86	.00193	611.30	.01921	(397)
443	4120.1	91821236	.00727	162	100.51	.00276	1064.30	.04776	(865)
444	386.0	25252713	.00727	476	414.10	.00094	611.30	.00934	(172)
445	2765.6	50707784	.00727	133	71.79	.00335	1064.30	.05805	(900)
446	2343.8	46610250	.00727	145	83.07	.00309	1064.30	.05352	(887)
447	640.5	8766787	.00727	100	38.00	.00449	611.30	.04466	(819)
448	386.5	12565908	.00727	236	174.33	.00189	611.30	.01880	(395)
449	638.0	10436211	.00727	119	57.43	.00376	611.30	.03736	(501)
450	3226.5	54215264	.00727	122	60.65	.00366	1064.30	.06334	(914)
451	220.0	5137652	.00727	170	108.27	.00263	611.30	.02618	(454)
452	493.6	65907958	.00727	971	909.22	.00046	611.30	.00458	286
453	4260.0	62118557	.00727	106	44.50	.00422	1064.30	.07299	(934)
454	342.0	4709609	.00727	100	38.60	.00447	611.30	.04439	(519)
455	152.5	7198536	.00727	343	281.66	.00130	611.30	.01295	(294)
456	329.5	6018134	.00727	133	71.27	.00337	611.30	.03347	(489)
457	5629.1	153976395	.00727	199	137.35	.00225	1064.30	.03891	(820)
458	1150.6	14656197	.00727	93	31.09	.00483	1064.30	.08355	(950)
459	284.0	12266609	.00727	314	252.50	.00142	611.30	.01415	(321)
460	742.0	22721326	.00727	223	161.11	.00201	611.30	.01996	(406)
461	781.0	13812733	.00727	129	67.07	.00348	611.30	.03456	(492)
462	409.5	11708442	.00727	208	146.35	.00215	611.30	.02138	(419)
463	360.0	6517166	.00727	132	70.10	.00340	611.30	.03377	(490)
464	1251.0	17680023	.00727	103	41.23	.00435	1064.30	.07531	(935)
465	2273.1	50910359	.00727	163	101.32	.00275	1064.30	.04752	(864)
466	1102.0	35583300	.00727	235	173.24	.00190	1064.30	.03296	(776)
467	563.0	28907353	.00727	373	311.77	.00120	611.30	.01191	(266)
468	119.0	10398531	.00727	635	573.76	.00070	611.30	.00700	(24)

469	1461.5	15202944	.00727	76	14.11	.00591	1064.30	.10231	(971)
470	2967.4	57472165	.00727	141	79.29	.00818	1064.30	.05495	(891)
471	159.5	6868303	.00727	313	251.55	.00143	611.30	.01420	(522)
473	1205.0	30702048	.00727	185	123.72	.00241	1064.30	.04177	(837)
474	146.0	12794336	.00727	637	575.56	.00070	611.30	.00678	(22)
475	6557.7	61729817	.00727	68	6.92	.00653	1064.30	.11306	(980)
476	122.0	10639601	.00727	634	572.51	.00071	611.30	.00701	(25)
477	220.0	11985362	.00727	396	334.69	.00113	611.30	.01122	(245)
479	257.5	8011564	.00727	226	164.68	.00198	611.30	.01965	(402)
480	3391.0	89826767	.00727	193	131.07	.00232	1064.30	.04018	(827)
481	375.8	11538558	.00727	223	161.71	.00200	611.30	.01991	(405)
482	367.0	20346568	.00727	403	341.54	.00111	611.30	.01103	(239)
483	560.0	34398913	.00727	447	385.06	.00100	611.30	.00995	(199)
484	891.0	22403318	.00727	183	121.29	.00245	611.30	.02431	(442)
486	251.0	7410261	.00727	215	153.12	.00208	611.30	.02071	(413)
487	560.6	9331237	.00727	121	59.50	.00370	611.30	.03673	(499)
488	326.5	10422576	.00727	232	170.56	.00193	611.30	.01915	(397)
489	3266.1	80071787	.00727	178	116.72	.00251	1064.30	.04341	(845)
490	2017.0	41954725	.00727	151	89.71	.00296	1064.30	.05117	(878)
491	783.2	7467929	.00727	69	7.81	.00645	611.30	.06411	(547)
492	234.0	11873430	.00727	369	307.38	.00121	611.30	.01205	(270)
493	1231.5	27330226	.00727	161	99.83	.00277	1064.30	.04796	(866)
494	419.0	36458565	.00727	633	571.08	.00071	611.30	.00703	(27)
495	1092.6	35473062	.00727	236	174.52	.00169	1064.30	.03278	(774)
496	152.0	10699755	.00727	512	450.25	.00087	611.30	.00868	(138)
497	7639.6	195279705	.00727	186	124.32	.00241	1064.30	.04164	(836)
498	391.2	10093058	.00727	188	126.06	.00238	611.30	.02369	(438)
499	704.5	4835130	.00727	50	-11.61	.00896	611.30	.08907	(965)
500	22131.4	326875449	.00727	107	45.87	.00416	1064.30	.07206	(932)
501	14181.7	325760905	.00727	167	105.49	.00268	1064.30	.04633	(859)
502	189.0	13071900	.00727	503	441.31	.00089	611.30	.00884	(147)
503	1957.5	29621570	.00727	110	48.50	.00406	1064.30	.07033	(929)
504	458.0	10224768	.00727	162	100.79	.00276	611.30	.02738	(461)
505	312.0	4687727	.00727	109	47.72	.00409	611.30	.04069	(813)
506	1605.1	26801962	.00727	121	59.88	.00368	1064.30	.06374	(913)
507	382.0	73310681	.00727	1395	1333.70	.00032	611.30	.00319	672
508	859.0	10519006	.00727	89	27.52	.00502	611.30	.04992	(829)
509	215.5	6639020	.00727	224	162.46	.00200	611.30	.01984	(404)
511	234.0	12919652	.00727	401	339.88	.00111	611.30	.01107	(240)
512	29068.1	796559111	.00727	199	137.71	.00224	1064.30	.03884	(819)
TOTAL	399755.2	11255101979	.00727 Mn	313.00 Mn	251.49 Mn	.00239 Mn Mn		.03019 Mn	-423.80

APPENDIX 2 B

TOTAL LOCAL CONTROL

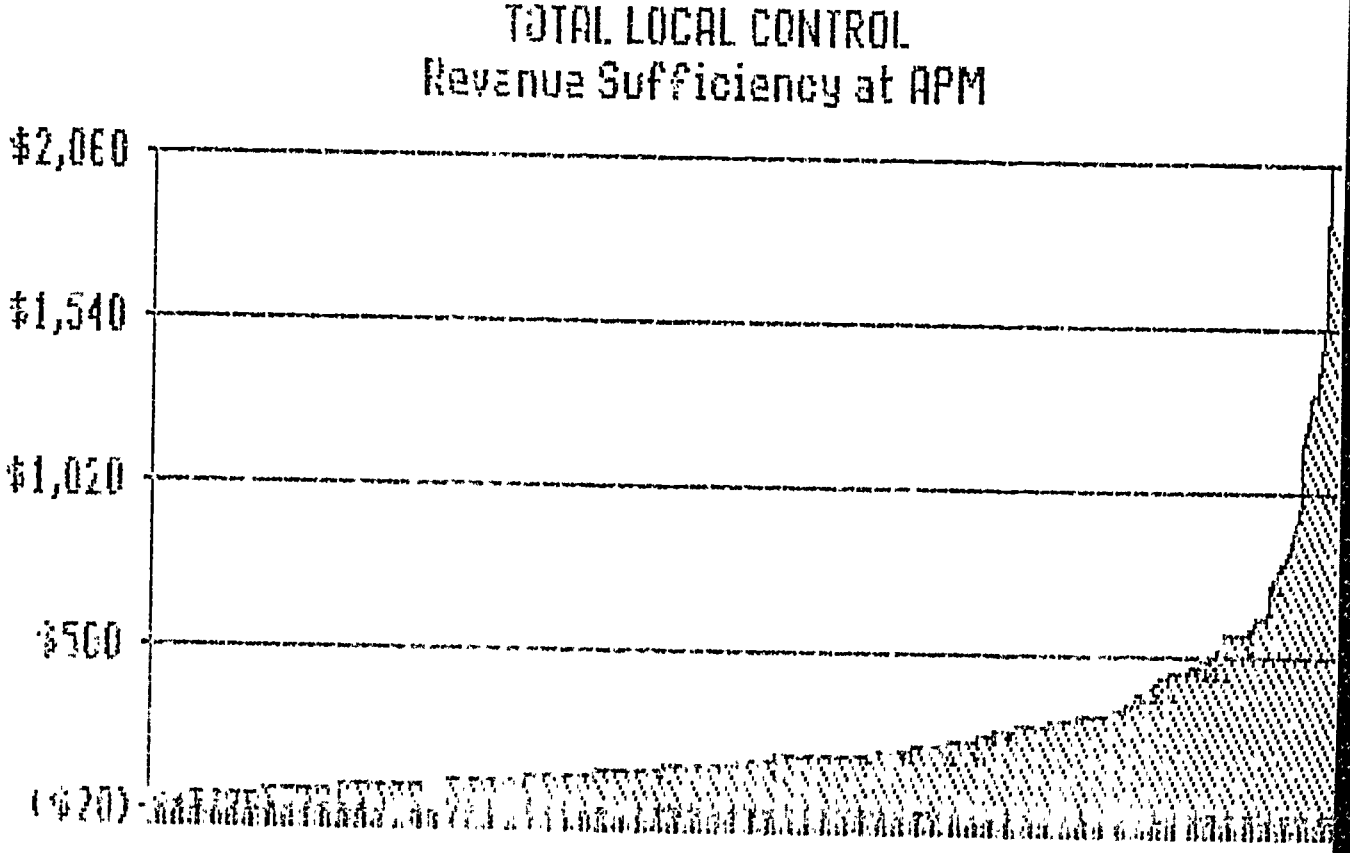
BY

LOCAL REQUIRED MILL RATE

(RLMR)

TO FUND THE STATE

AVERAGE PRACTICE MODEL


TOTAL LOCAL CONTROL
Revenue Sufficiency at APM
$2,060
$1,540
$1,020
$500
($20)

APPENDIX 2B: TOTAL LOCAL CONTROL DATA ARRAYED BY LOCAL REQUIRED MILL RATE TO FUND THE STATE AVERAGE PRACTICE MODEL (APM) FROM HIGH TO LOW

USD	FTE	AV 1987	STATE APM CO + BI MILLS	WPP # STATE MN LEVY	DISCREPCY BETWN LOCAL WPP:MEAN	RLMR TO FUND ST. MEAN	ESTIMATED R/U NEED MODEL	RLMR TO FUND NEED	WPP - NEED ADJ. FOR DEBT
499	704.5	4835130	.00727	50	-11.61	.00896	611.30	.08907	(565)
263	1803.0	16225664	.00727	65	3.91	.00684	1064.30	.11327	(984)
475	6557.7	61729817	.00727	68	6.92	.00653	1064.30	.11306	(980)
491	783.2	7467929	.00727	69	7.81	.00645	611.30	.06411	(547)
203	964.0	9785527	.00727	74	12.29	.00606	611.30	.06022	(543)
469	1461.5	15202944	.00727	76	14.11	.00591	1064.30	.10231	(971)
230	1212.5	12795266	.00727	77	15.21	.00583	1064.30	.10085	(970)
337	768.1	8203445	.00727	78	16.13	.00576	611.30	.05724	(540)
394	1233.0	13343104	.00727	79	17.16	.00568	1064.30	.09835	(965)
406	480.9	5260115	.00727	80	18.01	.00562	611.30	.05589	(538)
434	1215.2	14450326	.00727	86	24.94	.00517	1064.30	.08950	(958)
357	674.0	8068652	.00727	87	25.52	.00514	611.30	.05106	(531)
338	469.9	5609540	.00727	88	26.97	.00505	611.30	.05023	(530)
429	382.5	4662137	.00727	89	27.10	.00505	611.30	.05015	(529)
508	859.0	10519006	.00727	89	27.52	.00502	611.30	.04992	(529)
246	587.5	7245186	.00727	90	28.15	.00499	611.30	.04957	(528)
232	1651.8	20937425	.00727	92	30.64	.00485	1064.30	.08396	(951)
458	1150.6	14656197	.00727	93	31.09	.00483	1064.30	.08355	(950)
340	715.5	9143616	.00727	93	31.40	.00481	611.30	.04784	(525)
344	412.0	5458977	.00727	96	34.82	.00464	611.30	.04614	(522)
262	1882.0	24968380	.00727	96	34.94	.00464	1064.30	.08022	(946)
261	3117.8	41372600	.00727	96	34.96	.00464	1064.30	.08020	(946)
396	685.2	9134452	.00727	97	35.41	.00461	611.30	.04586	(522)
266	1740.1	23585193	.00727	99	37.03	.00454	1064.30	.07852	(943)
439	399.0	5411534	.00727	99	37.09	.00454	611.30	.04597	(521)
447	640.5	8766787	.00727	100	38.00	.00449	611.30	.04466	(519)
454	342.0	4709609	.00727	100	38.00	.00447	611.30	.04439	(519)
348	918.2	12669100	.00727	100	38.80	.00446	611.30	.04430	(519)
202	3836.1	53148939	.00727	101	39.22	.00444	1064.30	.07682	(940)
464	1251.0	17680023	.00727	103	41.25	.00435	1064.30	.07531	(938)
367	1096.0	15712899	.00727	104	42.72	.00429	1064.30	.07424	(936)
402	1813.5	26096927	.00727	105	43.11	.00427	1064.30	.07396	(936)
249	420.5	6072170	.00727	105	43.47	.00426	611.30	.04283	(514)
453	4260.0	62118557	.00727	106	44.50	.00422	1064.30	.07299	(934)
335	465.5	6795238	.00727	106	44.62	.00421	611.30	.04188	(513)
500	22131.4	326875449	.00727	107	45.87	.00416	1064.30	.07206	(932)
372	601.0	8936539	.00727	108	46.59	.00414	611.30	.04111	(511)
505	312.0	4687727	.00727	109	47.72	.00409	611.30	.04067	(510)
503	1957.5	29621570	.00727	110	48.50	.00406	1064.30	.07063	(929)
204	2073.0	31441142	.00727	110	48.75	.00406	1064.30	.07017	(929)
355	1884.0	28665817	.00727	111	49.11	.00404	1064.30	.06995	(928)
256	2909.0	44687539	.00727	112	50.17	.00400	1064.30	.06928	(927)
336	887.5	13778108	.00727	113	51.35	.00396	611.30	.03938	(507)
248	1039.0	16466831	.00727	115	53.71	.00388	1064.30	.06715	(923)
289	667.7	10660544	.00727	116	54.56	.00385	611.30	.03829	(504

290	2135.5	34353026	.00727	117	55.44	.00382	1064.30	.06616	(923)
320	1176.1	19083197	.00727	118	56.45	.00379	1064.30	.06557	(919)
267	1383.5	22491285	.00727	118	56.68	.00378	1064.30	.06547	919)
449	638.0	10438211	.00727	119	57.43	.00376	611.30	.03732	(501)
343	855.5	14095903	.00727	120	58.28	.00373	611.30	.03710	(501
404	745.9	12327327	.00727	120	58.64	.00372	611.30	.03699	(500)
323	577.5	9570873	.00727	120	58.98	.00371	611.30	.03687	(500)
487	560.6	9331237	.00727	121	59.50	.00370	611.30	.03673	(499)
506	1605.1	26801962	.00727	121	59.88	.00368	1064.30	.06374	(915)
339	379.9	6351642	.00727	122	60.04	.00368	611.30	.03656	(499)
257	1746.0	29248558	.00727	122	60.28	.00367	1064.30	.06353	(915)
450	3226.5	54215264	.00727	122	60.65	.00366	1064.30	.06334	(914)
385	1564.0	26682188	.00727	124	62.52	.00361	1064.30	.06238	(912)
341	529.0	9067162	.00727	125	63.10	.00359	611.30	.03566	(496)
234	2046.5	35288463	.00727	125	63.85	.00357	1064.30	.06172	(910)
342	481.5	8330351	.00727	126	64.27	.00356	611.30	.03533	(495)
247	779.5	13523666	.00727	126	64.62	.00355	611.30	.03524	(495)
425	295.5	5133198	.00727	126	64.78	.00354	611.30	.03519	(495)
373	3035.7	52972852	.00727	127	65.35	.00352	1064.30	.06099	(908)
288	498.0	8713964	.00727	127	65.70	.00352	611.30	.03494	(494)
461	781.0	13812733	.00727	129	67.07	.00348	611.30	.03456	(492)
233	12139.6	216122462	.00727	129	67.92	.00346	1064.30	.05978	(905)
287	726.5	13130877	.00727	131	69.89	.00340	611.30	.03382	(490)
430	643.7	11642302	.00727	131	69.98	.00340	611.30	.03380	(490)
465	360.0	6517166	.00727	132	70.10	.00340	611.30	.03377	(490)
456	329.5	6018134	.00727	133	71.27	.00337	611.30	.03347	(489)
445	2765.6	50707784	.00727	133	71.79	.00335	1064.30	.05805	(900)
265	1854.7	34073587	.00727	134	72.05	.00335	1064.30	.05793	(900)
455	1586.5	25682961	.00727	135	73.16	.00332	1064.30	.05746	(899)
436	804.7	14945119	.00727	135	73.51	.00331	611.30	.03291	(488)
253	4460.5	82945104	.00727	135	73.68	.00331	1064.30	.05723	(898)
231	1656.2	31601966	.00727	139	77.21	.00322	1064.30	.05573	(894)
421	378.5	7262025	.00727	139	77.57	.00321	611.30	.03186	(488
409	1677.1	32278259	.00727	140	78.41	.00320	1064.30	.05531	(893
470	2967.4	57472165	.00727	141	79.29	.00318	1064.30	.05495	(891
416	1024.0	19888813	.00727	141	79.69	.00317	1064.30	.05480	(89
378	514.5	10000687	.00727	141	79.80	.00316	611.30	.03145	(487
305	6675.6	130025743	.00727	142	80.09	.00316	1064.30	.05464	(893
420	629.0	12260552	.00727	142	80.20	.00316	611.30	.03136	(486
368	1442.6	28356915	.00727	143	81.40	.00313	1064.30	.05414	(889
243	486.5	9627717	.00727	144	82.36	.00311	611.30	.03067	(485
446	2343.8	46610250	.00727	145	83.07	.00309	1064.30	.05352	(887
413	1943.0	38690813	.00727	145	83.26	.00309	1064.30	.05345	(886
457	3319.6	66379379	.00727	145	83.86	.00308	1064.30	.05323	(886
101	1104.5	22376556	.00727	147	85.77	.00304	1064.30	.05253	(885
211	706.5	14405468	.00727	148	86.72	.00302	611.30	.02998	(474
377	778.0	16125474	.00727	151	89.17	.00297	611.30	.02949	(473
490	2017.0	41954725	.00727	151	89.71	.00296	1064.30	.05247	(876
313	2145.5	45166262	.00727	153	91.54	.00292	1064.30	.05056	(872
440	718.0	15156397	.00727	153	91.95	.00291	611.30	.02896	(429
383	5848.6	123846961	.00727	154	92.44	.00290	1064.30	.05026	(873
235	478.5	10184310	.00727	155	93.22	.00289	611.30	.02872	(466
379	1561.6	33961009	.00727	158	96.59	.00283	1064.30	.04894	(870
358	402.5	8809426	.00727	159	97.61	.00281	611.30	.02793	(464

493	1231.5	27330226	.00727	161	99.83	.00277	1064.30	.04796	(8ee)
443	4120.1	91821236	.00727	162	100.51	.00276	1064.30	.04772	(8e5)
504	458.0	10224768	.00727	162	100.79	.00276	611.30	.02738	(461)
465	2273.1	50910359	.00727	163	101.32	.00275	1064.30	.04752	(8e4)
330	558.0	12531644	.00727	163	101.76	.00274	61..30	.02722	(4e0)
309	1472.5	33118199	.00727	164	102.00	.00273	1064.30	.04732	(8e3)
308	4897.3	111820437	.00727	166	104.49	.00269	1064.30	.04661	(8e0)
501	14181.7	325760905	.00727	167	105.49	.00268	1064.30	.04633	(8d9)
441	941.0	21871724	.00727	169	107.47	.00265	611.30	.02630	(455)
333	1354.4	31535351	.00727	169	107.76	.00264	1064.30	.04571	(8d6)
345	3374.5	78700961	.00727	170	108.04	.00264	1064.30	.04563	(8d6)
451	220.0	5137652	.00727	170	108.27	.00263	611.30	.02618	(454)
286	501.0	11701541	.00727	170	108.27	.00263	611.30	.02617	(454)
222	430.0	10130318	.00727	171	109.76	.00261	611.30	.02595	(453)
2e8	537.5	12703674	.00727	172	110.31	.00260	611.30	.02586	(452
278	310.0	7377076	.00727	173	111.49	.00258	611.30	.02567	(451)
411	248.3	5930241	.00727	174	112.12	.00258	611.30	.02560	(451)
205	682.0	16342019	.00727	174	112.69	.00257	611.30	.02551	(450)
356	399.5	9711868	.00727	177	115.22	.00253	611.30	.02515	(44E)
307	334.0	8127226	.00727	177	115.39	.00253	611.30	.02512	(448)
346	544.0	13271393	.00727	177	115.85	.00252	611.30	.02506	(447)
469	3266.1	80071787	.00727	178	116.72	.00251	1064.30	.04241	(845)
387	388.0	9717134	.00727	182	120.56	.00246	611.30	.02441	(44E)
484	891.0	22403318	.00727	183	121.29	.00245	611.30	.02431	(442
415	1100.1	27684377	.00727	183	121.44	.00244	1064.30	.04229	(839)
473	1205.0	30702048	.00727	185	123.72	.00241	1064.30	.04177	(837)
497	7639.6	195279705	.00727	186	124.32	.00241	1064.30	.04164	(836)
229	6598.0	168667464	.00727	186	124.42	.00241	1064.30	.04161	(835)
259	43368.5	1110929480	.00727	186	124.72	.00240	1064.30	.04155	(835)
322	413.5	10607277	.00727	186	124.98	.00240	611.30	.02383	(439)
327	710.8	18246068	.00727	187	125.11	.00240	611.30	.02381	(439)
498	391.2	10093058	.00727	188	126.06	.00238	611.30	.02367	(438)
283	177.5	4628351	.00727	190	128.06	.00236	611.30	.02344	(436)
406	559.5	14102673	.00727	190	128.53	.00235	611.30	.02339	(436
383	599.0	15865137	.00727	193	131.04	.00232	611.30	.02308	(433)
480	3391.0	87826787	.00727	193	131.07	.00232	1064.30	.04018	(82?
258	620.0	16009438	.00727	195	133.25	.00230	611.30	.02282	(431
251	680.2	18322952	.00727	196	134.33	.00228	611.30	.02269	(431)
428	3328.9	89728376	.00727	196	134.45	.00228	1064.30	.03949	(823)
457	5629.1	153976395	.00727	199	137.35	.00225	1064.30	.03891	(822)
512	25068.1	796559111	.00727	199	137.71	.00224	1064.30	.03884	(821)
315	1210.5	33323302	.00727	200	138.62	.00223	1064.30	.03866	(81.)
398	412.5	11411769	.00727	201	139.61	.00222	611.30	.02210	(425)
410	596.7	16547315	.00727	202	140.10	.00222	611.30	.02204	(425)
376	541.1	15009149	.00727	202	140.15	.00222	611.30	.02204	(425)
312	1123.5	31188521	.00727	202	140.31	.00222	1064.30	.03834	(81e)
240	481.7	13391946	.00727	202	140.61	.00221	611.30	.02199	(424)
2e0	5206.8	144884706	.00727	202	140.79	.00221	1064.30	.03825	81e)
417	772.5	27121e05	.00727	203	141.24	.00221	611.30	.02.72	(42e)
294	942.5	26658120	.00727	207	145.66	.00216	611.30	.02145	(42)
462	489.5	11708442	.00727	208	146.35	.00215	611.30	.02133	(419
364	900.0	2o287915	.00727	212	150.84	.00211	611.30	.02093	(418)
352	1232.0	3e033877	.00727	213	151.12	.00210	1064.30	.03e39	(81?)
486	251.0	7410261	.00727	215	153.12	.00208	611.30	.02071	(413)

433	199.5	5904453	.00727	215	153.65	.00208	611.30	.02965	(412)
272	547.0	16303704	.00727	217	155.18	.00206	611.30	.02051	(411)
400	794.5	24116570	.00727	221	159.18	.00203	611.30	.02014	(407)
460	742.0	22721326	.00727	223	161.11	.00201	611.30	.01996	(406)
481	375.8	11538556	.00727	223	161.71	.00200	611.30	.01991	(405)
382	1324.0	40663939	.00727	223	161.77	.00200	1064.30	.03465	(790)
252	482.0	14828157	.00727	224	162.14	.00200	611.30	.01987	(405)
509	215.5	6639020	.00727	224	162.46	.00200	611.30	.01984	(404)
479	257.5	8011564	.00727	226	164.68	.00198	611.30	.01965	(402)
369	268.0	8402979	.00727	228	166.44	.00196	611.30	.01950	(401)
329	522.4	16406838	.00727	228	166.82	.00196	611.30	.01946	(400)
365	967.6	30396330	.00727	228	166.87	.00196	611.30	.01946	(400)
412	529.0	16625938	.00727	228	166.98	.00196	611.30	.01945	(400)
334	248.5	7822754	.00727	229	167.64	.00195	611.30	.01939	(399)
389	691.5	21804853	.00727	229	167.73	.00195	611.30	.01939	(399)
238	208.5	6589196	.00727	230	168.24	.00195	611.30	.01934	(399)
237	648.0	20389821	.00727	231	169.02	.00194	611.30	.01928	(398)
393	303.0	9611881	.00727	231	169.11	.00194	611.30	.01927	(398)
442	378.1	12033020	.00727	231	169.86	.00193	611.30	.01921	(397)
325	711.5	22685326	.00727	232	170.29	.00193	611.30	.01917	(397)
468	326.5	10422576	.00727	232	170.56	.00193	611.30	.01915	(397)
405	750.1	24012707	.00727	233	171.22	.00192	611.30	.01910	(396)
466	1102.0	35583300	.00727	235	173.24	.00190	1064.30	.03296	(776)
495	1092.6	35473062	.00727	236	174.52	.00189	1064.30	.03278	(774)
448	386.5	12565908	.00727	236	174.85	.00189	611.30	.01880	(393)
360	301.0	9793442	.00727	237	175.03	.00189	611.30	.01879	(393)
273	780.0	25426604	.00727	237	175.48	.00189	611.30	.01875	(392)
427	605.5	19818703	.00727	238	176.45	.00188	611.30	.01868	(391)
256	333.0	10912236	.00727	238	176.72	.00188	611.30	.01865	(391)
311	263.5	8673539	.00727	239	177.79	.00187	611.30	.01857	(390)
239	642.5	21345287	.00727	242	180.02	.00185	611.30	.01840	(388)
418	2268.3	77023974	.00727	245	183.20	.00183	1064.30	.03162	(763)
318	472.5	15939619	.00727	245	183.74	.00182	611.30	.01812	(385)
392	470.5	16147636	.00727	247	185.37	.00181	611.30	.01800	(383)
432	403.5	13792788	.00727	249	187.00	.00180	611.30	.01788	(382)
102	576.0	19834212	.00727	249	187.96	.00179	611.30	.01781	(381)
212	203.5	6991725	.00727	250	188.27	.00179	611.30	.01779	(380)
206	506.0	17447915	.00727	251	189.17	.00178	611.30	.01773	(380)
366	560.0	19598346	.00727	254	192.92	.00176	611.30	.01747	(376)
297	419.0	14668970	.00727	255	193.01	.00176	611.30	.01746	(376)
419	384.5	13469387	.00727	255	193.16	.00176	611.30	.01745	(376)
386	288.0	10261054	.00727	259	197.51	.00173	611.30	.01716	(372)
285	202.0	7198490	.00727	259	197.56	.00173	611.30	.01715	(372)
381	251.5	9115444	.00727	263	201.99	.00170	611.30	.01687	(368)
324	168.0	6117627	.00727	265	203.22	.00169	611.30	.01679	(367)
245	319.5	11637231	.00727	265	203.29	.00169	611.30	.01678	(367)
426	259.0	9465551	.00727	266	204.18	.00168	611.30	.01673	(366)
510	516.0	19147276	.00727	270	208.26	.00166	611.30	.01647	(362)
375	1163.0	43334784	.00727	271	209.38	.00165	1064.30	.02856	(731)
423	426.0	15939512	.00727	272	210.51	.00164	611.30	.01634	(360)
355	552.1	20938582	.00727	276	214.21	.00162	611.30	.01612	(356)
282	446.9	17021619	.00727	277	215.39	.00161	611.30	.01605	(355)
279	198.5	7587161	.00727	278	216.37	.00161	611.30	.01599	(354)
294	582.5	22948867	.00727	286	224.91	.00156	611.30	.01552	(347)

361	985.5	38843157	.00727	287	225.03	.00156	611.30	.01551	(346)
208	607.5	24312310	.00727	291	229.44	.00154	611.30	.01527	(342)
431	691.0	27659661	.00727	291	229.50	.00154	611.30	.01527	(342)
347	378.7	15186857	.00727	292	230.04	.00153	611.30	.01524	(342)
305	657.1	27173399	.00727	301	259.13	.00149	611.30	.01478	(333)
224	403.4	16741572	.00727	302	240.20	.00148	611.30	.01473	(332)
359	212.5	8841247	.00727	302	240.96	.00148	611.30	.01469	(332)
349	283.5	11989551	.00727	307	245.95	.00145	611.30	.01445	(327)
471	159.5	6868303	.00727	313	251.55	.00143	611.30	.01420	(322)
293	320.5	13817096	.00727	313	251.91	.00143	611.30	.01418	(322)
459	284.0	12266609	.00727	314	252.50	.00142	611.30	.01415	(321)
397	294.5	12842128	.00727	317	255.51	.00141	611.30	.01402	(318)
241	322.0	14164066	.00727	320	258.28	.00140	611.30	.01390	(316)
298	401.0	18080733	.00727	328	266.29	.00136	611.30	.01356	(308)
354	265.0	11967894	.00727	328	266.82	.00136	611.30	.01354	(308)
407	1232.7	56570507	.00727	334	272.12	.00134	1064.30	.02519	(654
350	429.0	19710461	.00727	334	272.51	.00134	611.30	.01331	(305)
284	540.5	25133780	.00727	338	276.55	.00132	611.30	.01315	(299)
331	1098.7	51413011	.00727	340	278.69	.00131	1064.30	.02274	(646)
281	504.6	23635372	.00727	341	279.02	.00131	611.30	.01305	(297)
223	384.5	18078945	.00727	342	280.32	.00131	611.30	.01300	(295)
455	152.5	7198536	.00727	343	281.66	.00130	611.30	.01295	(294)
254	802.0	38090956	.00727	345	283.79	.00130	611.30	.01287	(292)
388	352.5	16940246	.00727	349	287.87	.00128	611.30	.01272	(288)
390	141.5	6818399	.00727	350	288.81	.00128	611.30	.01269	(287)
213	128.0	6173979	.00727	351	289.15	.00128	611.30	.01267	(287)
295	119.3	5762856	.00727	351	289.52	.00127	611.30	.01266	(287)
403	352.0	17145671	.00727	354	292.61	.00126	611.30	.01255	(284)
422	430.0	21407373	.00727	362	300.42	.00124	611.30	.01226	(277)
371	210.5	10680676	.00727	369	307.37	.00121	611.30	.01205	(270)
492	234.0	11873430	.00727	369	307.38	.00121	611.30	.01205	(270)
316	142.5	7260366	.00727	370	308.90	.00121	611.30	.01200	(269)
292	210.5	10759041	.00727	372	310.07	.00120	611.30	.01196	(268)
467	563.0	28907353	.00727	373	311.77	.00120	611.30	.01191	(269)
221	172.5	8866507	.00727	374	312.17	.00120	611.30	.01189	(268
104	205.0	10645149	.00727	378	316.00	.00118	611.30	.01177	(262)
274	475.5	24746636	.00727	378	316.85	.00118	611.30	.01175	(262)
271	406.0	21274100	.00727	381	319.43	.00117	611.30	.01167	(259)
291	147.5	7945040	.00727	392	330.09	.00114	611.30	.01135	(249)
270	487.0	26603844	.00727	396	334.01	.00113	611.30	.01124	(246)
477	220.0	11989552	.00727	396	334.69	.00113	611.30	.01122	(245)
511	234.0	12919652	.00727	401	339.88	.00111	611.30	.01107	(244)
482	367.0	20346568	.00727	403	341.54	.00111	611.30	.01103	(243)
438	353.8	20919817	.00727	430	368.36	.00104	611.30	.01034	(214)
326	227.5	13756829	.00727	440	378.10	.00102	611.30	.01011	(205)
302	204.5	12492110	.00727	444	382.59	.00101	611.30	.01001	(201)
483	560.0	34398913	.00727	447	385.06	.00100	611.30	.00995	(199)
317	73.5	4578580	.00727	453	391.39	.00099	611.30	.00981	(193)
225	169.0	10773754	.00727	463	401.95	.00096	611.30	.00959	(183)
444	386.0	25252713	.00727	476	414.10	.00094	611.30	.00934	(172)
314	149.5	10055999	.00727	489	427.50	.00091	611.30	.00909	(157)
303	322.5	21912017	.00727	494	432.44	.00091	611.30	.00900	(155)
280	124.0	8466891	.00727	496	434.90	.00090	611.30	.00895	(152)
502	189.0	13071900	.00727	503	441.31	.00089	611.30	.00884	(147)

255	314.0	21866431	.00727	506	444.76	.00088	611.30	.00878	(143)
354	222.5	15509823	.00727	507	445.26	.00088	611.30	.00877	(143)
227	243.5	17112382	.00727	511	449.40	.00088	611.30	.00870	(139)
496	152.0	10699755	.00727	512	450.25	.00087	611.30	.00868	(138)
103	225.5	16082626	.00727	516	456.99	.00086	611.30	.00857	(132)
219	203.5	14774257	.00727	528	466.30	.00085	611.30	.00842	(126)
395	364.0	26653509	.00727	532	470.83	.00084	611.30	.00835	(119)
300	420.5	31364357	.00727	542	480.75	.00082	611.30	.00820	(110)
242	108.5	8207005	.00727	550	488.40	.00081	611.30	.00808	(103)
218	596.0	45462536	.00727	555	493.04	.00081	611.30	.00991	(99)
228	139.0	10641709	.00727	557	495.07	.00080	611.30	.00796	(97)
304	123.5	9767700	.00727	575	513.48	.00078	611.30	.00773	(80)
269	188.0	15884436	.00727	614	552.74	.00073	611.30	.00724	(44)
374	490.0	41981130	.00727	623	561.35	.00072	611.30	.00714	(36)
299	208.5	18069184	.00727	630	568.53	.00071	611.30	.00705	(29)
494	419.0	36458565	.00727	633	571.08	.00071	611.30	.00703	(27
476	122.0	10639601	.00727	634	572.51	.00071	611.30	.00701	(25)
468	119.0	10398531	.00727	635	573.76	.00070	611.30	.00700	(24)
474	146.0	12794336	.00727	637	575.58	.00070	611.30	.00698	(22)
401	173.0	15502771	.00727	651	589.96	.00069	611.30	.00682	(9)
200	336.7	30626428	.00727	661	599.77	.00068	611.30	.00672	(0)
351	282.0	26168374	.00727	675	613.11	.00066	611.30	.00659	12
328	475.5	44532540	.00727	681	619.36	.00066	611.30	.00653	18
275	108.5	10255602	.00727	687	625.66	.00065	611.30	.00647	24
214	1500.1	149167192	.00727	723	661.41	.00062	1064.30	.01070	(175)
399	170.5	18988252	.00727	810	748.14	.00055	611.30	.00547	137
332	307.0	34561228	.00727	818	756.93	.00055	611.30	.00543	145
424	118.0	13804876	.00727	851	789.01	.00053	611.30	.00523	175
301	91.0	10940580	.00727	874	812.53	.00051	611.30	.00508	197
220	237.7	28655649	.00727	876	814.92	.00051	611.30	.00507	199
362	780.3	101714100	.00727	948	886.15	.00047	611.30	.00469	265
452	493.6	65907958	.00727	971	909.22	.00046	611.30	.00458	286
226	401.5	58155719	.00727	1053	991.52	.00042	611.30	.00422	362
216	254.5	44148764	.00727	1261	1199.64	.00035	611.30	.00352	554
563	605.5	110847385	.00727	1331	1269.39	.00034	611.30	.00334	619
210	897.5	172138611	.00727	1394	1332.86	.00032	611.30	.00319	672
507	382.0	73310681	.00727	1395	1333.70	.00032	611.30	.00319	679
215	685.0	138878950	.00727	1474	1412.43	.00030	611.30	.00302	751
321	1009.1	224298706	.00727	1616	1554.44	.00028	1064.30	.00479	723
217	216.0	57832171	.00727	1946	1884.97	.00023	611.30	.00228	1,188
209	145.3	61573700	.00727	3081	3019.29	.00015	611.30	.00144	2,236
244	765.6	493247327	.00727	4684	4622.28	.00010	611.30	.00095	3,718

APPENDIX 2 C

TOTAL LOCAL CONTROL

BY

LOCAL REQUIRED MILL RATE

(RLMR)

TO FUND THE STATE

NEED MODEL

APPENDIX 2C: TOTAL LOCAL CONTROL DATA ARRAYED BY LOCAL REQUIRED MILL RATE TO FUND THE NEED MODEL

USD	FTE	AV 1987	STATE AFM CO + GI MILLS	WPP 9 STATE MN LEVY	DISCREPCY BETWN LOCAL WPP:MEAN	RLMR TO FUND ST. MEAN	ESTIMATED R/U NEED MODEL	RLMR TO FUND NEED	WPP - NEED ADJ. FOR DEBT
263	1803.0	16225664	.00727	65	3.91	.00684	1064.30	.11827	(984)
475	6557.7	61729817	.00727	68	6.92	.00653	1064.30	.11306	(980)
469	1461.5	15202944	.00727	76	14.11	.00591	1064.30	.10231	(971)
230	1212.5	12795266	.00727	77	15.21	.00583	1064.30	.10085	(970)
374	1233.0	13543104	.00727	79	17.16	.00568	1064.30	.09835	(968.
434	1215.2	14456326	.00727	86	24.94	.00517	1064.30	.08950	(952)
499	704.5	4835150	.00727	50	-11.61	.00896	611.30	.08707	(565)
232	1651.8	20937425	.00727	92	30.64	.00485	1064.30	.08396	(951)
458	1150.6	14656197	.00727	93	31.09	.00483	1064.30	.08355	(950.
262	1882.0	24968380	.00727	96	34.94	.00464	1064.30	.08022	(946)
261	3117.8	41372600	.00727	96	34.96	.00464	1064.30	.08020	(946)
266	1740.1	23585193	.00727	99	37.03	.00454	1064.30	.07852	(943)
202	3836.1	53148939	.00727	101	39.22	.00444	1064.30	.07682	(940)
464	1251.0	17680023	.00727	103	41.23	.00435	1064.30	.07531	(938)
367	1396.0	15712899	.00727	104	42.72	.00429	1064.30	.07424	(936)
402	1813.5	2e096927	.00727	105	43.11	.00427	1064.30	.07390	(936)
453	4260.0	62118557	.00727	106	44.50	.00422	1064.30	.07299	(934)
500	22131.4	326875449	.00727	107	45.87	.00416	1064.30	.07206	(932)
503	1957.5	29621570	.00727	110	48.50	.00406	1064.30	.07033	(929)
204	2073.0	31441142	.00727	110	48.75	.00406	1064.30	.07017	(929)
353	1884.0	28665817	.00727	111	49.11	.00404	1064.30	.06995	(933)
250	2909.0	44687539	.00727	112	50.17	.00400	1064.30	.06928	(927)
248	1039.0	16466831	.00727	115	53.71	.00388	1064.30	.06715	(923)
290	2135.5	34353026	.00727	117	55.44	.00382	1064.30	.06616	(920)
320	1176..	19083197	.00727	118	56.45	.00379	1064.30	.06559	(919)
267	1383.5	22491285	.00727	118	56.68	.00378	1064.30	.06547	(917)
491	783.2	7467929	.00727	69	7.81	.00645	611.30	.06411	(547)
506	1605.1	26801962	.00727	121	59.88	.00366	1064.30	.06374	(915)
257	1746.0	29246558	.00727	122	60.28	.00367	1064.30	.06353	(915)
450	3226.5	54215264	.00727	122	60.65	.00366	1064.30	.06334	(914)
385	1564.0	26682188	.00727	124	62.52	.00361	1064.30	.06238	(912)
254	2046.5	35288463	.00727	125	63.85	.00357	1064.30	.06172	(910)
373	3035.7	52972852	.00727	127	65.35	.00352	1064.30	.06099	(908)
203	764.0	9785527	.00727	74	12.29	.00606	611.30	.06022	(543)
233	12139.6	216122462	.00727	129	67.92	.00346	1064.30	.05978	(905)
445	2765.6	50707784	.00727	133	71.79	.00335	1064.30	.05805	(900)
265	1854.7	34073587	.00727	134	72.05	.00335	1064.30	.05793	.900)
455	1386.5	25e82961	.00727	135	73.16	.00332	1064.30	.05746	(899)
337	768.1	8203445	.00727	78	16.13	.00576	611.30	.05724	(540)
253	4460.5	82945104	.00727	135	73.68	.00331	1064.30	.05723	(898)
406	480.9	52e0115	.00727	80	18.01	.00562	611.30	.05589	(538)
231	1e36.2	31601966	.00727	139	77.21	.00322	1064.30	.05579	(874)
409	1677.1	32278259	.00727	140	78.41	.00320	1064.30	.05530	(872)
470	2967.4	57472165	.00727	141	79.29	.00318	1064.30	.05495	(871)
416	1024.0	19888813	.00727	141	79.69	.00317	1064.30	.05480	(871)
305	6675.8	130025743	.00727	142	80.09	.00316	1064.30	.05464	(870)

368	1442.6	28356915	.00727	143	81.40	.00313	1064.30	.05414	(839)
446	2343.8	46610250	.00727	145	83.07	.00309	1064.30	.05352	(837)
413	1943.0	38690813	.00727	145	83.26	.00309	1064.30	.05345	(836)
437	3319.6	66379379	.00727	145	83.86	.00308	1064.30	.05325	(836)
101	1104.5	22376356	.00727	147	85.77	.00304	1064.30	.05253	(823)
450	2017.0	41954725	.00727	151	89.71	.00296	1064.30	.05117	(800)
357	674.0	8068652	.00727	87	25.52	.00514	611.30	.05106	(531)
313	2145.5	45166262	.00727	153	91.54	.00292	1064.30	.05056	(876)
383	5848.6	123846961	.00727	154	92.44	.00290	1064.30	.05026	(875)
338	460.9	5609540	.00727	88	26.97	.00505	611.30	.05023	(530)
429	382.5	4662137	.00727	89	27.10	.00505	611.30	.05015	(529)
508	859.0	10519006	.00727	89	27.52	.00502	611.30	.04992	(529)
246	587.5	7245186	.00727	90	28.15	.00499	611.30	.04957	(525)
379	1561.6	33961009	.00727	158	96.59	.00283	1064.30	.04894	(870)
493	1231.5	27330226	.00727	161	99.83	.00277	1064.30	.04796	(860)
340	715.5	9143616	.00727	93	31.40	.00481	611.30	.04784	(525)
443	4120.1	91821236	.00727	162	100.51	.00276	1064.30	.04776	(865)
465	2273.1	50910859	.00727	163	101.32	.00275	1064.30	.04752	(864)
309	1472.5	33118199	.00727	164	102.00	.00273	1064.30	.04732	(863)
508	4897.3	111820437	.00727	166	104.49	.00269	1064.30	.04661	(860)
501	14181.7	325760905	.00727	167	105.49	.00268	1064.30	.04633	(859)
344	412.0	5458977	.00727	96	34.82	.00464	611.30	.04614	(522)
396	685.2	9134452	.00727	97	35.41	.00461	611.30	.04586	(522)
355	1554.4	31535351	.00727	169	107.76	.00264	1064.30	.04571	(858)
345	3374.5	78700961	.00727	170	108.04	.00264	1064.30	.04563	(858)
459	399.0	5411534	.00727	99	37.09	.00454	611.30	.04597	(520)
447	640.5	8766787	.00727	100	38.00	.00449	611.30	.04466	(519)
454	342.0	4709609	.00727	100	38.60	.00447	611.30	.04439	(519)
348	918.2	12669100	.00727	100	38.80	.00446	611.30	.04430	(519)
489	3266.1	80071787	.00727	178	116.72	.00251	1064.30	.04341	(845)
249	420.5	6072170	.00727	105	43.47	.00426	611.30	.04233	(514)
415	1100.1	27684377	.00727	183	121.44	.00244	1064.30	.04229	(839)
335	465.5	6795238	.00727	106	44.62	.00421	611.30	.04188	(513)
473	1205.0	30702048	.00727	185	123.72	.00241	1064.30	.04177	(837)
497	7639.6	195279705	.00727	186	124.32	.00241	1064.30	.04164	(836)
229	6595.0	168667464	.00727	186	124.42	.00241	1064.30	.04161	(836)
259	43368.5	1110929480	.00727	186	124.72	.00240	1064.30	.04155	(835)
372	601.0	8936539	.00727	108	46.59	.00414	611.30	.04111	(511)
505	312.0	4687727	.00727	109	47.72	.00409	611.30	.04069	(510)
460	3391.0	89826767	.00727	193	131.07	.00232	1064.30	.04018	(827)
428	3328.9	89723376	.00727	196	134.45	.00228	1064.30	.03949	(823)
336	887.5	13778108	.00727	113	51.35	.00396	611.30	.03938	(507)
457	5629.1	153976395	.00727	199	137.35	.00225	1064.30	.03891	(820)
512	29068.1	796559111	.00727	199	137.71	.00224	1064.30	.03884	(819)
315	1210.5	33323302	.00727	200	138.62	.00223	1064.30	.03866	(818)
312	1123.5	31188521	.00727	202	140.31	.00222	1064.30	.03834	(816)
289	667.7	18660544	.00727	116	54.56	.00385	611.30	.03829	(504)
260	5206.8	144884706	.00727	202	140.79	.00221	1064.30	.03823	(816)
449	638.0	18438211	.00727	119	57.43	.00376	611.30	.03736	(501)
343	855.5	24095903	.00727	120	58.28	.00373	611.30	.03710	(501)
404	745.9	12327327	.00727	120	58.64	.00372	611.30	.03699	(500)
323	577.5	9570873	.00727	120	58.98	.00371	611.30	.03689	(500)
487	560.6	9331237	.00727	121	59.50	.00370	611.30	.03673	(499)
339	379.9	6351642	.00727	122	60.04	.00368	611.30	.03656	(499)

352	1232.0	36033877	.00727	213	151.12	.00210	1064.30	.03639	(803)
341	529.0	9067162	.00727	125	63.10	.00359	611.30	.03566	(496)
342	481.5	8330351	.00727	126	64.27	.00356	611.30	.03533	(495)
247	779.5	13523666	.00727	126	64.62	.00355	611.30	.03524	(495)
425	295.5	5133198	.00727	126	64.78	.00354	611.30	.03519	(495)
288	498.0	8713964	.00727	127	65.70	.00352	611.30	.03494	(494)
382	1324.0	40663939	.00727	223	161.77	.00200	1064.30	.03465	(730)
461	781.0	13812733	.00727	129	67.07	.00348	611.30	.03456	(492)
287	726.5	13130877	.00727	131	69.89	.00340	611.30	.03382	(490)
430	643.7	11642302	.00727	131	69.98	.00340	611.30	.03380	(490)
463	360.0	6517166	.00727	132	70.10	.00340	611.30	.03377	(490)
456	329.5	6018134	.00727	133	71.27	.00337	611.30	.03347	(489)
466	1102.0	35583300	.00727	235	173.24	.00190	1064.30	.03296	(776)
436	804.7	14945119	.00727	135	73.51	.00331	611.30	.03291	(486)
495	1092.6	35473062	.00727	236	174.52	.00189	1064.30	.03278	(774)
421	378.5	7262025	.00727	139	77.97	.00321	611.30	.03186	(482)
418	2288.3	77023974	.00727	245	183.20	.00183	1064.30	.03162	(768)
378	514.5	10000887	.00727	141	79.80	.00316	611.30	.03145	(481)
420	629.0	12260552	.00727	142	80.20	.00316	611.30	.03136	(480)
243	486.5	9627717	.00727	144	82.36	.00311	611.30	.03089	(478)
211	706.5	14405468	.00727	148	86.72	.00302	611.30	.02998	(474)
377	778.0	16125474	.00727	151	89.17	.00297	611.30	.02949	(472)
440	718.0	15156897	.00727	153	91.95	.00291	611.30	.02896	(469)
235	478.5	10184310	.00727	155	93.22	.00289	611.30	.02872	(468)
375	1163.0	43334984	.00727	271	209.38	.00165	1064.30	.02856	(731)
358	402.5	8809426	.00727	159	97.61	.00281	611.30	.02793	(464)
504	458.0	10224768	.00727	162	100.79	.00276	611.30	.02758	(461)
330	558.0	12531644	.00727	163	101.76	.00274	611.30	.02722	(460)
441	941.0	21871724	.00727	169	107.47	.00265	611.30	.02630	(455)
451	220.0	5137652	.00727	170	108.27	.00263	611.30	.02618	(454)
286	501.0	11701541	.00727	170	108.29	.00263	611.30	.02617	(454)
222	450.0	10130318	.00727	171	109.76	.00261	611.30	.02595	(453)
268	537.5	12703674	.00727	172	110.31	.00260	611.30	.02586	(452)
278	310.0	7377076	.00727	173	111.49	.00258	611.30	.02569	(451)
411	248.3	5930241	.00727	174	112.12	.00258	611.30	.02560	(451)
205	682.0	16342019	.00727	174	112.69	.00257	611.30	.02551	(450)
356	359.5	9711868	.00727	177	115.22	.00253	611.30	.02515	(448)
307	334.0	8127226	.00727	177	115.39	.00253	611.30	.02512	(446)
346	544.0	13271393	.00727	177	115.85	.00252	611.30	.02506	(447)
387	388.0	9717134	.00727	182	120.56	.00246	611.30	.02441	(443)
484	891.0	22403318	.00727	183	121.29	.00245	611.30	.02431	(442)
322	413.5	10607277	.00727	186	124.98	.00240	611.30	.02383	(439)
327	710.8	18246068	.00727	187	125.11	.00240	611.30	.02381	(439)
498	391.2	10093058	.00727	188	126.06	.00238	611.30	.02369	(438)
283	177.5	4628351	.00727	190	128 06	.00236	611.30	.02344	(436)
408	539.5	14102673	.00727	190	128.53	.00235	611.30	.02339	(436)
407	1232.7	56570307	.00727	334	272.12	.00134	1064.30	.02319	(654)
360	599.0	15865127	.00727	193	131.04	.00232	611.30	.02308	(433)
258	620.0	16009438	.00727	195	133.25	.00230	611.30	.02282	(431)
331	1098.7	51413011	.00727	340	278.69	.00131	1064.30	.02274	(646)
251	680.2	18322952	.00727	196	134.33	.00228	611.30	.02269	(430)
398	412.5	11411769	.00727	201	139.61	.00222	611.30	.02210	(425)
410	596.7	16547315	.00727	202	140.10	.00222	611.30	.02204	(425)
376	541.1	15009149	.00727	202	140.15	.00222	611.30	.02204	(425)

240	481.7	13391946	.00727	202	140.61	.00221	611.30	.02199	(424)
417	972.5	27121605	.00727	203	141.24	.00221	611.30	.02192	(424)
264	942.5	26858120	.00727	207	145.66	.00216	611.30	.02145	(420)
402	409.5	11708442	.00727	208	146.35	.00215	611.30	.02138	(419)
364	900.0	26287915	.00727	212	150.84	.00211	611.30	.02093	(415)
466	251.0	7410261	.00727	215	153.12	.00206	611.30	.02071	(413)
433	199.5	5904453	.00727	215	153.65	.00208	611.30	.02065	(412)
272	547.0	16303704	.00727	217	155.18	.00206	611.30	.02051	(411)
400	794.5	24118570	.00727	221	159.18	.00203	611.30	.02014	(407)
460	742.0	22721326	.00727	223	161.11	.00201	611.30	.01996	(406)
481	375.8	11538558	.00727	223	161.71	.00200	611.30	.01991	(405)
252	482.0	14828157	.00727	224	162.14	.00200	611.30	.01987	(405)
509	215.5	6639020	.00727	224	162.46	.00200	611.30	.01984	(404)
479	257.5	8011564	.00727	226	164.66	.00198	611.30	.01965	(402)
369	266.0	8402979	.00727	228	166.44	.00196	611.30	.01950	(401)
329	522.4	16406538	.00727	228	166.82	.00196	611.30	.01946	(400)
365	967.6	30396330	.00727	228	166.87	.00196	611.30	.01946	(400)
412	529.0	16625938	.00727	228	166.98	.00196	611.30	.01945	(400)
384	248.5	7832754	.00727	229	167.64	.00195	611.30	.01939	(399)
389	691.5	21804853	.00727	229	167.73	.00195	611.30	.01939	(399)
238	208.5	6589196	.00727	230	168.24	.00195	611.30	.01934	(399)
237	643.0	20389821	.00727	231	169.02	.00194	611.30	.01928	(398)
393	303.0	9611991	.00727	231	169.11	.00194	611.30	.01927	(398)
442	378.1	12033020	.00727	231	169.86	.00193	611.30	.01921	(397)
325	711.5	22685326	.00727	232	170.29	.00193	611.30	.01917	(397)
488	326.5	10422576	.00727	232	170.56	.00193	611.30	.01915	(397)
405	750.1	24012707	.00727	233	171.22	.00192	611.30	.01910	(396)
448	386.5	12565908	.00727	236	174.85	.00189	611.30	.01880	(393)
360	301.0	9793442	.00727	237	175.03	.00189	611.30	.01879	(393)
273	780.0	25426604	.00727	237	175.48	.00189	611.30	.01875	(392)
427	605.5	19818703	.00727	238	176.45	.00188	611.30	.01868	(391)
256	333.0	10912236	.00727	238	176.72	.00188	611.30	.01865	(391)
311	263.5	8673539	.00727	239	177.79	.00187	611.30	.01857	(390)
239	642.5	21545287	.00727	242	180.02	.00185	611.30	.01840	(388)
316	472.5	15939619	.00727	245	183.74	.00182	611.30	.01812	(385)
392	475.5	16147636	.00727	247	185.37	.00181	611.30	.01800	(383)
432	403.5	13792788	.00727	249	187.00	.00180	611.30	.01788	(382)
102	576.0	19834212	.00727	249	187.96	.00179	611.30	.01781	(381)
212	203.5	6991725	.00727	250	188.27	.00179	611.30	.01779	(380)
206	506.0	17447915	.00727	251	189.17	.00178	611.30	.01773	(380)
366	560.0	19598346	.00727	254	192.92	.00176	611.30	.01747	(378)
297	419.0	14668970	.00727	255	193.01	.00176	611.30	.01746	(378)
419	384.5	13469387	.00727	255	193.16	.00176	611.30	.01745	(378)
386	288.0	10261054	.00727	259	197.51	.00173	611.30	.01716	(375)
285	202.0	7198490	.00727	259	197.56	.00173	611.30	.01715	(375)
381	251.5	9115444	.00727	263	201.99	.00170	611.30	.01687	(373)
324	168.0	6117627	.00727	265	203.22	.00169	611.30	.01679	(372)
245	319.5	11637231	.00727	265	203.29	.00169	611.30	.01678	(372)
426	259.0	9465551	.00727	266	204.18	.00168	611.30	.01673	(372)
310	516.0	19147276	.00727	270	208.26	.00166	611.30	.01647	(370)
423	426.0	15939512	.00727	272	210.51	.00164	611.30	.01634	(369)
355	552.1	20936582	.00727	276	214.21	.00162	611.30	.01612	(367)
282	446.9	17021619	.00727	277	215.39	.00161	611.30	.01603	(366)
279	198.5	7587161	.00727	278	216.37	.00161	611.30	.01599	(364)

294	582.5	22948867	.00727	286	224.91	.00156	611.30	.01552	(347)
361	985.5	38843157	.00727	287	225.03	.00156	611.30	.01551	(346)
208	607.5	24312310	.00727	291	229.44	.00154	611.30	.01527	(342)
431	691.0	27659661	.00727	291	229.50	.00154	611.30	.01527	(342)
347	378.7	15186857	.00727	292	230.04	.00153	611.30	.01524	(342)
306	657.1	27173399	.00727	301	239.13	.00149	611.30	.01478	(333)
224	403.4	16741572	.00727	302	240.20	.00148	611.30	.01473	(332)
359	212.5	8841247	.00727	302	240.96	.00148	611.30	.01469	(332)
349	283.5	11989551	.00727	307	245.95	.00145	611.30	.01445	(327)
471	159.5	6868303	.00727	313	251.55	.00143	611.30	.01420	(322)
293	320.5	13817096	.00727	313	251.91	.00143	611.30	.01418	(322)
459	284.0	12266609	.00727	314	252.50	.00142	611.30	.01415	(321)
397	294.5	12842128	.00727	317	255.51	.00141	611.30	.01402	(318)
241	322.0	14164066	.00727	320	258.28	.00140	611.30	.01390	(316)
298	401.0	18080733	.00727	328	266.29	.00136	611.30	.01356	(309)
334	265.0	11967894	.00727	328	266.82	.00136	611.30	.01354	(308)
350	429.0	19710461	.00727	334	272.51	.00134	611.30	.01331	(303)
284	540.5	25133780	.00727	338	276.55	.00132	611.30	.01315	(299)
281	504.6	23635372	.00727	34	279.02	.00131	611.30	.01305	(297)
223	384.5	18078945	.00727	342	280.32	.00131	611.30	.01300	(295)
455	152.5	7198536	.00727	343	281.66	.00130	611.30	.01295	(294)
254	802.0	38090956	.00727	345	283.78	.00130	611.30	.01287	(292)
360	352.5	16740246	.00727	349	287.87	.00128	611.30	.01272	(288)
390	141.5	6818399	.00727	350	288.81	.00128	611.30	.01269	(287)
213	128.0	6173979	.00727	351	289.15	.00128	611.30	.01267	(287)
295	119.3	5762856	.00727	351	289.52	.00127	611.30	.01266	(287)
403	352.0	17145671	.00727	354	292.61	.00126	611.30	.01255	(284)
422	430.0	21407373	.00727	362	300.42	.00124	611.30	.01228	(277)
371	210.5	10680676	.00727	369	307.37	.00121	611.30	.01205	(270)
492	234.0	11873430	.00727	369	307.38	.00121	611.30	.01205	(270)
316	142.5	7260366	.00727	370	308.90	.00121	611.30	.01200	(269)
292	210.5	10759041	.00727	372	310.07	.00120	611.30	.01196	(268)
467	563.0	28907353	.00727	373	311.77	.00120	611.30	.01191	(266)
221	172.5	8866507	.00727	374	312.17	.00120	611.30	.01189	(266)
104	205.0	10645149	.00727	378	316.00	.00118	611.30	.01177	(263)
274	475.5	24746636	.00727	378	316.85	.00118	611.30	.01175	(262)
271	406.0	21274100	.00727	381	319.43	.00117	611.30	.01167	(259)
291	147.5	7945040	.00727	392	330.09	.00114	611.30	.01135	(249)
270	489.0	26603844	.00727	396	334.01	.00113	611.30	.01124	(246)
477	220.0	11989562	.00727	396	334.69	.00113	611.30	.01122	(245)
511	234.0	12919652	.00727	401	339.88	.00111	611.30	.01107	(240)
482	367.0	20346568	.00727	403	341.54	.00111	611.30	.01103	(239)
214	1500.1	149167192	.00727	723	661.41	.00062	1064.30	.01070	(175)
438	353.8	20919817	.00727	430	368.36	.00104	611.30	.01034	(214)
326	227.5	13756829	.00727	440	378.10	.00102	611.30	.01011	(205)
302	264.5	12492110	.00727	444	382.59	.00101	611.30	.01001	(201)
483	560.0	34398913	.00727	447	385.06	.00100	611.30	.00995	(199)
317	73.5	4576880	.00727	453	391.39	.00099	611.30	.00981	(196)
225	169.0	10773754	.00727	463	401.95	.00096	611.30	.00959	(188)
444	386.0	25252713	.00727	476	414.10	.00094	611.30	.00934	(172)
314	149.5	10055999	.00727	489	427.50	.00091	611.30	.00909	(159)
303	322.5	21912017	.00727	494	432.44	.00091	611.30	.00900	(155)
280	124.0	8466891	.00727	496	434.90	.00090	611.30	.00895	(152)
502	169.0	13071900	.00727	503	441.31	.00089	611.30	.00884	(147)

255	314.0	21866431	.00727	506	444.76	.00088	611.30	.00878	(143)
354	222.5	15509823	.00727	507	445.26	.00088	611.30	.00877	(143)
227	245.5	17112382	.00727	511	449.40	.00088	611.30	.00870	(139)
496	152.0	10599755	.00727	512	450.25	.00087	611.30	.00868	(138)
103	225.5	15082626	.00727	518	455.99	.00086	611.30	.00857	(132)
219	203.5	14774257	.00727	528	466.30	.00085	611.30	.00842	(123)
395	364.0	26653509	.00727	532	470.83	.00084	611.30	.00835	(119)
300	420.5	31364357	.00727	542	480.75	.00082	611.30	.00820	(110)
242	108.5	8207005	.00727	550	488.40	.00081	611.30	.00808	(103)
218	596.0	45462536	.00727	555	493.04	.00081	611.30	.00801	(99)
228	139.0	10641709	.00727	557	495.07	.00080	611.30	.00798	(97)
304	123.5	9767700	.00727	575	513.48	.00078	611.30	.00773	(80)
269	188.0	15884436	.00727	614	552.74	.00073	611.30	.00724	(44)
374	490.0	41981130	.00727	623	561.35	.00072	611.30	.00714	(36)
299	298.5	18069184	.00727	630	565.53	.00071	611.30	.00705	(29)
494	419.0	36458565	.00727	633	571.08	.00071	611.30	.00703	(27)
476	122.0	10639601	.00727	634	572.51	.00071	611.30	.00701	(25)
468	119.0	10398531	.00727	635	573.76	.00070	611.30	.00700	(24)
474	146.0	12794336	.00727	637	575.58	.00070	611.30	.00698	(22)
401	173.0	15502771	.00727	651	589.96	.00069	611.30	.00682	(9)
200	336.7	30626428	.00727	661	599.77	.00068	611.30	.00672	(0)
351	282.0	26168374	.00727	675	613.11	.00066	611.30	.00659	12
328	475.5	44532540	.00727	681	619.36	.00066	611.30	.00653	18
275	108.5	10255602	.00727	687	625.66	.00065	611.30	.00647	24
359	170.5	16988252	.00727	810	748.14	.00055	611.30	.00549	137
332	307.0	34561228	.00727	818	756.93	.00055	611.30	.00543	145
424	118.0	13804876	.00727	851	789.01	.00053	611.30	.00523	175
301	91.0	10940580	.00727	874	812.53	.00051	611.30	.00508	197
220	237.7	28655649	.00727	876	814.92	.00051	611.30	.00507	199
321	1009.1	224298706	.00727	1616	1554.44	.00028	1064.30	.00479	923
362	780.3	101714100	.00727	948	886.15	.00047	611.30	.00469	265
452	493.6	65907958	.00727	971	909.22	.00046	611.30	.00458	226
226	401.5	58155719	.00727	1953	991.52	.00042	611.30	.00422	562
216	254.5	44148764	.00727	1261	1195.64	.00035	611.30	.00352	554
363	605.5	110847385	.00727	1331	1269.39	.00034	611.30	.00334	[illegible]
210	897.5	172138611	.00727	1394	1332.86	.00032	611.30	.00319	678
507	382.0	73310681	.00727	1395	1333.70	.00032	611.30	.00319	678
215	685.0	138878950	.00727	1474	1412.43	.00030	611.30	.00302	751
217	216.0	57832171	.00727	1946	1884.97	.00023	611.30	.00228	1,188
209	145.3	61573700	.00727	3081	3019.29	.00015	611.30	.00144	2,236
244	765.6	493247327	.00727	4684	4622.28	.00010	611.30	.00095	3,718

APPENDIX 2 D

TOTAL LOCAL CONTROL

BY

LOCAL REQUIRED MILL RATE

(RLMR)

TO FUND THE

RURAL AND URBAN

NEED MODELS

APPENDIX 2D: TOTAL LOCAL CONTROL DATA ARRAYED BY URBAN AND RURAL NEED MODEL

USD	FTE	AV 1987	STATE APM CO + BI MILLS	WPP @ STATE MN LEVY	DISCREPCY BETWN LOCAL WPP:MEAN	RLMR TO FUND ST. MEAN	ESTIMATED R/U NEED MODEL	RLMR TO FUND NEED	WPP - NEED ADJ. FOR DEBT
URBAN DISTRICTS ARRAYED BY NEED MODEL AFTER ADJUSTING FOR DEBT HIGH TO LOW									
321	1009.1	224298706	.00727	1616	1554.44	.00028	1064.30	.00479	923
214	1500.1	149167192	.00727	723	661.41	.00062	1064.30	.01070	(175)
331	1098.7	51413011	.00727	340	278.69	.00131	1064.30	.02274	(646)
407	1252.7	56579307	.00727	334	272.12	.00134	1064.30	.02319	(654)
375	1163.0	43334984	.00727	271	209.38	.00165	1064.30	.02856	(731)
418	2288.3	77023974	.00727	245	183.20	.00183	1064.30	.03162	(763)
495	1092.6	35473062	.00727	236	174.52	.00189	1064.30	.03278	(774)
466	1102.0	35583300	.00727	235	173.24	.00190	1064.30	.03296	(776)
382	1324.0	40663939	.00727	223	161.77	.00200	1064.30	.03465	(790)
352	1232.0	36033877	.00727	213	151.12	.00210	1064.30	.03639	(808)
268	5206.8	144884706	.00727	202	140.79	.00221	1064.30	.03825	(816)
312	1123.5	31155521	.00727	202	140.31	.00222	1064.30	.03834	(816)
315	1210.5	33323302	.00727	200	138.62	.00223	1064.30	.03866	(818)
512	29068.1	796559111	.00727	199	137.71	.00224	1064.30	.03884	(819)
457	5629.1	153976395	.00727	199	137.35	.00225	1064.30	.03891	(820)
428	3328.9	89728376	.00727	196	134.45	.00228	1064.30	.03949	(823)
460	3391.0	89826767	.00727	193	131.07	.00232	1064.30	.04018	(827)
259	43368.5	1110929480	.00727	186	124.72	.00240	1064.30	.04155	(835)
229	6595.0	166667464	.00727	186	124.42	.00241	1064.30	.04161	(836)
477	7639.6	195279705	.00727	186	124.32	.00241	1064.30	.04164	(836)
473	1205.0	30702948	.00727	185	123.72	.00241	1064.30	.04177	(837)
415	1100.1	27684377	.00727	183	121.44	.00244	1064.30	.04229	(839)
469	3266.1	80071787	.00727	178	116.72	.00251	1064.30	.04341	(845)
345	3574.5	78700961	.00727	170	108.04	.00264	1064.30	.04563	(858)
333	1354.4	31535351	.00727	169	107.76	.00264	1064.30	.04571	(858)
501	14181.7	325760905	.00727	167	105.49	.00268	1064.30	.04633	(862)
308	4697.3	111820437	.00727	166	104.49	.00269	1064.30	.04661	(864)
309	1472.5	33118199	.00727	164	102.00	.00273	1064.30	.04732	(868)
465	2275.1	50910359	.00727	163	101.32	.00275	1064.30	.04752	(869)
443	4120.1	91821236	.00727	162	100.51	.00276	1064.30	.04776	(870)
493	1231.5	27330226	.00727	161	99.83	.00277	1064.30	.04796	(872)
379	1561.6	33961009	.00727	158	96.59	.00283	1064.30	.04894	(878)
383	5848.6	123846961	.00727	154	92.44	.00290	1064.30	.05026	(885)
313	2145.5	45166262	.00727	153	91.54	.00292	1064.30	.05056	(887)
490	2017.0	41954725	.00727	151	89.71	.00296	1064.30	.05117	(892)
191	1104.5	22376356	.00727	147	85.77	.00304	1064.30	.05253	(900)
457	3319.6	66379379	.00727	145	83.86	.00308	1064.30	.05323	(906)
413	1943.0	38690813	.00727	145	83.26	.00309	1064.30	.05345	(908)
446	2348.8	46610250	.00727	145	80.07	.00309	1064.30	.05352	(907)
368	1442.6	28356915	.00727	143	81.40	.00313	1064.30	.05414	(909)
305	6675.8	130925743	.00727	142	80.09	.00316	1064.30	.05464	(910)
416	1024.0	19888813	.00727	141	79.69	.00317	1064.30	.05480	(911)

470	2967.4	57472165	.00727	141	79.29	.00318	1064.30	.05495	(891)
409	1677.1	32278259	.00727	140	78.41	.00320	1064.30	.05539	(893)
251	1656.2	31601966	.00727	139	77.21	.00322	1064.30	.05578	(897)
253	4460.5	82945104	.00727	135	73.68	.00331	1064.30	.05733	(898)
435	1386.5	25682961	.00727	135	73.16	.00332	1064.30	.05748	(899)
265	1854.7	34073587	.00727	134	72.05	.00335	1064.30	.05793	(901)
445	2765.6	50707784	.00727	133	71.79	.00335	1064.30	.05805	(900)
233	12139.6	216122462	.00727	129	67.92	.00346	1064.30	.05978	(905)
373	3035.7	52972852	.00727	127	65.35	.00352	1064.30	.06099	(908)
234	2046.5	35288463	.00727	125	63.85	.00357	1064.30	.06172	(910)
385	1564.0	26682168	.00727	124	62.52	.00361	1064.30	.06238	(912)
450	3226.5	54215264	.00727	122	60.65	.00366	1064.30	.06334	(914)
257	1746.0	29248558	.00727	122	60.28	.00367	1064.30	.06355	(915)
506	1605.1	26801962	.00727	121	59.83	.00368	1064.30	.06374	(915)
267	1383.5	22491265	.00727	118	56.68	.00378	1064.30	.06547	(919)
320	1176.1	19083197	.00727	118	56.45	.00379	1064.30	.06559	(919)
290	2135.5	34353026	.00727	117	55.44	.00382	1064.30	.06616	(920)
248	1039.0	16466831	.00727	115	53.71	.00388	1064.30	.06715	(923)
250	2909.0	44687539	.00727	112	50.17	.00400	1064.30	.06928	(927)
353	1684.0	28665817	.00727	111	49.11	.00404	1064.30	.06995	(928)
204	2073.0	31441142	.00727	110	48.75	.00406	1064.30	.07017	(929)
503	1557.5	29621570	.00727	110	48.50	.00406	1064.30	.07033	(929)
500	22131.4	326875449	.00727	107	45.87	.00416	1064.30	.07206	(932)
453	4260.0	62118557	.00727	106	44.50	.00422	1064.30	.07299	(934)
402	1813.5	26096927	.00727	105	43.11	.00427	1064.30	.07396	(936)
367	1096.0	15712899	.00727	104	42.72	.00429	1064.30	.07424	(936)
464	1251.0	17660023	.00727	103	41.23	.00435	1064.30	.07531	(938)
202	3636.1	53148959	.00727	101	39.22	.00444	1064.30	.07682	(940)
266	1740.1	23585193	.00727	99	37.03	.00454	1064.30	.07852	(943)
261	3117.8	41372600	.00727	96	34.96	.00464	1064.30	.08020	(946)
262	1882.0	24968360	.00727	96	34.94	.00464	1064.30	.08022	(946)
456	1150.6	14656197	.00727	93	31.09	.00483	1064.30	.08355	(951)
232	1631.8	20937425	.00727	92	30.64	.00485	1064.30	.08392	(951)
434	1215.2	14450526	.00727	86	24.94	.00517	1064.30	.08950	(961)
394	1233.0	13343104	.00727	79	17.16	.00566	1064.30	.09535	(971)
230	1212.5	12795266	.00727	77	15.21	.00583	1064.30	.10085	(971)
469	1401.5	15202944	.00727	76	14.11	.00591	1064.30	.10231	(971)
475	6557.7	61725817	.00727	68	6.92	.00653	1064.30	.11306	(983)
263	1803.0	16225664	.00727	65	3.91	.00664	1064.30	.11527	(984)

RURAL DISTRICTS ARRAYED BY NEED MODEL AFTER ADJUSTING FOR DEBT HIGH TO LOW

244	765.6	493247327	.00727	4684	4622.28	.00010	611.30	.00095	3,718
209	145.3	61573700	.00727	3061	3019.29	.00015	611.30	.00144	2,236
217	216.0	57832171	.00727	1946	1884.97	.00023	611.30	.00226	1,...8
215	285.0	138878950	.00727	1474	1412.43	.00030	611.30	.00302	78.
507	382.0	73310681	.00727	1395	1333.70	.00032	611.30	.00319	678
210	897.5	172138611	.00727	1394	1332.66	.00032	611.30	.00319	678
368	605.5	110847335	.00727	1331	1269.39	.00034	611.30	.00334	814
216	254.5	44148764	.00727	1261	1199.64	.00035	611.30	.00352	554
226	401.5	58155719	.00727	1053	991.52	.00042	611.30	.00422	368
452	493.6	65907958	.00727	971	909.22	.00046	611.30	.00455	288

362	780.3	101714100	.00727	948	886.15	.00047	611.30	.00467	265
220	237.7	28655649	.00727	876	814.92	.00049	611.30	.00507	199
301	91.0	10940550	.00727	874	812.53	.00051	611.30	.00506	197
424	118.0	13804876	.00727	851	789.01	.00053	611.30	.00525	175
332	307.0	34561228	.00727	818	756.93	.00055	611.30	.00543	142
399	170.5	16988252	.00727	810	748.14	.00055	611.30	.00549	137
275	108.5	10255602	.00727	687	625.66	.00065	611.30	.00647	24
328	475.5	44582540	.00727	681	619.36	.00066	611.30	.00653	18
351	282.0	26168374	.00727	675	613.11	.00066	611.30	.00659	12
200	336.7	30626428	.00727	661	599.77	.00068	611.30	.00672	(0)
401	173.0	15502771	.00727	651	589.96	.00069	611.30	.00682	(9)
474	146.0	12794336	.00727	637	575.58	.00070	611.30	.00696	(22)
468	119.0	10398531	.00727	635	573.76	.00070	611.30	.00700	(24)
476	122.0	10639601	.00727	634	572.51	.00071	611.30	.00701	(25)
494	419.0	36458565	.00727	633	571.08	.00071	611.30	.00703	(27)
299	208.5	18069184	.00727	630	568.53	.00071	611.30	.00705	(29)
374	490.0	41981130	.00727	623	561.35	.00072	611.30	.00714	(36)
269	168.0	15884456	.00727	614	552.74	.00073	611.30	.00724	(44)
304	123.5	9767700	.00727	575	513.48	.00078	611.30	.00773	(80)
228	139.0	10641709	.00727	557	495.07	.00080	611.30	.00798	(97)
218	596.0	45462536	.00727	555	493.04	.00081	611.30	.00801	(99)
242	108.5	8207005	.00727	550	488.40	.00081	611.30	.00808	(103)
300	420.5	31364357	.00727	542	480.75	.00082	611.30	.00820	(113)
395	364.0	26653509	.00727	532	470.83	.00084	611.30	.00835	(119)
219	203.5	14774257	.00727	520	466.30	.00085	611.30	.00842	(123)
103	225.5	16082626	.00727	518	456.99	.00086	611.30	.00857	(132)
496	152.0	10699755	.00727	512	450.25	.00087	611.30	.00868	(138)
227	243.5	17112382	.00727	511	449.40	.00088	611.30	.00870	(139)
354	222.5	15509823	.00727	507	445.26	.00088	611.30	.00877	(145)
255	314.0	21866431	.00727	506	444.76	.00088	611.30	.00878	(146)
502	189.0	13071900	.00727	503	441.31	.00089	611.30	.00884	(147)
280	124.0	8466891	.00727	496	434.90	.00090	611.30	.00895	(152)
308	322.5	21912017	.00727	494	432.44	.00091	611.30	.00900	(155)
314	149.5	10055999	.00727	489	427.50	.00091	611.30	.00910	(159)
444	386.0	25282715	.00727	476	414.10	.00094	611.30	.00934	(179)
225	169.0	10778754	.00727	468	401.95	.00096	611.30	.00959	(198)
317	75.5	4578820	.00727	453	391.39	.00099	611.30	.00981	(213)
483	560.0	34398913	.00727	447	385.06	.00100	611.30	.00995	(224)
302	204.5	12492110	.00727	444	382.59	.00101	611.30	.01001	(230)
326	227.5	13756829	.00727	440	378.10	.00102	611.30	.01011	(238)
458	353.8	20919817	.00727	430	368.36	.00104	611.30	.01034	(254)
482	367.0	20346568	.00727	403	341.54	.00111	611.30	.01103	(289)
511	234.0	12919652	.00727	401	339.88	.00111	611.30	.01107	(294)
477	220.0	11985562	.00727	396	334.69	.00113	611.30	.01122	(245)
270	469.0	26603844	.00727	396	334.01	.00113	611.30	.01124	(246)
291	147.5	7945040	.00727	392	330.09	.00114	611.30	.01135	(249)
271	406.0	21274100	.00727	381	319.43	.00117	611.30	.01167	(259)
274	475.5	24746036	.00727	378	316.85	.00118	611.30	.01175	(262)
104	295.0	15645149	.00727	378	316.00	.00119	611.30	.01177	(262)
221	172.5	8866507	.00727	374	312.17	.00120	611.30	.01189	(266)
467	563.0	28907353	.00727	373	311.77	.00120	611.30	.01191	(268)
292	210.5	10759041	.00727	372	310.07	.00120	611.30	.01194	(268)
316	142.5	7269366	.00727	370	308.90	.00121	611.30	.01200	(269)
492	234.0	11873430	.00727	369	307.38	.00121	611.30	.01205	(270)

371	210.5	10680676	.00727	369	307.37	.00121	611.30	.01205	(270)
422	430.0	21407373	.00727	362	300.42	.00124	611.30	.01228	(277)
403	352.0	17145671	.00727	354	292.61	.00126	611.30	.01255	(284)
295	119.3	5762656	.00727	351	289.52	.00127	611.30	.01266	(287)
213	128.0	6173979	.00727	351	289.15	.00128	611.30	.01267	(287)
390	141.5	6818399	.00727	350	288.81	.00128	611.30	.01269	(287)
388	352.5	16940246	.00727	349	287.87	.00128	611.30	.01272	(288)
254	802.0	38090956	.00727	345	283.78	.00130	611.30	.01287	(292)
455	152.5	7198536	.00727	343	281.66	.00130	611.30	.01295	(294)
223	384.5	18078945	.00727	342	280.32	.00131	611.30	.01300	(295)
261	504.6	23635372	.00727	341	279.02	.00131	611.30	.01305	(297)
284	540.5	25133780	.00727	338	276.55	.00132	611.30	.01315	(299)
350	429.0	19710461	.00727	334	272.51	.00134	611.30	.01331	(303)
334	265.0	11967894	.00727	328	266.82	.00136	611.30	.01354	(308)
298	401.0	18080733	.00727	328	266.29	.00136	611.30	.01356	(308)
241	322.0	14164066	.00727	320	258.28	.00140	611.30	.01390	(316)
397	294.5	12842128	.00727	317	255.51	.00141	611.30	.01402	(318)
459	284.0	12266609	.00727	314	252.50	.00142	611.30	.01415	(321)
293	320.5	13817096	.00727	313	251.91	.00143	611.30	.01418	(322)
471	159.5	6868303	.00727	313	251.55	.00143	611.30	.01420	(322)
349	263.5	11989551	.00727	307	245.95	.00145	611.30	.01445	(327)
359	212.5	8841247	.00727	302	240.96	.00148	611.30	.01469	(332)
224	403.4	16741572	.00727	302	240.20	.00148	611.30	.01473	(332)
306	657.1	27173399	.00727	301	239.13	.00149	611.30	.01478	(333)
347	376.7	15186857	.00727	292	230.04	.00153	611.30	.01524	(342)
431	691.0	27659661	.00727	291	229.50	.00154	611.30	.01527	(342)
208	607.5	24312310	.00727	291	229.44	.00154	611.30	.01527	(342)
361	965.5	38643157	.00727	287	225.03	.00156	611.30	.01551	(346)
294	582.5	22948867	.00727	286	224.91	.00156	611.30	.01552	(347)
279	198.5	7587161	.00727	278	216.37	.00161	611.30	.01599	(354)
282	446.9	17021619	.00727	277	215.39	.00161	611.30	.01605	(355)
355	552.1	20938582	.00727	276	214.21	.00162	611.30	.01612	(356)
423	426.0	15939512	.00727	272	210.31	.00164	611.30	.01634	(360)
310	516.0	19147276	.00727	270	208.26	.00166	611.30	.01647	(362)
426	259.0	9465551	.00727	266	204.18	.00168	611.30	.01673	(366)
245	319.5	11637231	.00727	265	203.29	.00169	611.30	.01678	(367)
324	168.0	6117627	.00727	265	203.22	.00169	611.30	.01679	(367)
381	251.5	9115444	.00727	263	201.99	.00170	611.30	.01687	(368)
265	202.0	7198490	.00727	259	197.56	.00173	611.30	.01715	(372)
366	288.0	10261054	.00727	259	197.51	.00173	611.30	.01716	(372)
419	384.5	13469387	.00727	255	193.16	.00176	611.30	.01745	(376)
297	419.0	14668970	.00727	255	193.01	.00176	611.30	.01746	(376)
366	560.0	19598346	.00727	254	192.92	.00176	611.30	.01747	(376)
206	506.0	17447915	.00727	251	189.17	.00178	611.30	.01773	(380)
212	203.5	6991725	.00727	250	188.27	.00179	611.30	.01779	(380)
102	578.0	19834212	.00727	249	187.96	.00179	611.30	.01781	(381)
432	403.5	13792788	.00727	249	187.00	.00180	611.30	.01788	(382)
392	475.5	16147636	.00727	247	185.37	.00181	611.30	.01800	(383)
318	472.5	15939619	.00727	245	183.74	.00182	611.30	.01812	(385)
239	642.5	21345287	.00727	242	180.02	.00185	611.30	.01840	(388)
311	263.5	8673539	.00727	239	177.79	.00187	611.30	.01857	(390)
256	333.0	10912236	.00727	238	176.72	.00188	611.30	.01863	(391)
427	605.5	19818703	.00727	238	176.45	.00188	611.30	.01868	(391)
273	780.0	25426604	.00727	237	175.48	.00189	611.30	.01875	(392)

360	301.0	9793442	.00727	237	175.03	.00189	611.30	.01879	(393)
448	386.5	12565908	.00727	236	174.85	.00189	611.30	.01881	(393)
405	750.1	24012707	.00727	233	171.22	.00192	611.30	.01910	(396)
488	326.5	10422576	.00727	232	170.56	.00193	611.30	.01915	(397)
325	711.5	22685326	.00727	232	170.29	.00193	611.30	.01917	(397)
442	378.1	12033020	.00727	231	169.86	.00193	611.30	.01921	(397)
293	303.0	9611881	.00727	231	169.11	.00194	611.30	.01927	(398)
237	643.0	20389821	.00727	231	169.02	.00194	611.30	.01928	(398)
238	208.5	6589196	.00727	230	168.24	.00195	611.30	.01934	(399)
389	691.5	21804853	.00727	229	167.73	.00195	611.30	.01939	(399)
384	248.5	7832754	.00727	229	167.64	.00195	611.30	.01939	(399)
412	529.0	16625938	.00727	228	166.98	.00196	611.30	.01945	(400)
365	967.6	30396330	.00727	228	166.87	.00196	611.30	.01946	(400)
327	522.4	16406838	.00727	228	166.82	.00196	611.30	.01946	(400)
367	268.0	8402979	.00727	228	166.44	.00196	611.30	.01950	(401)
479	257.5	8011564	.00727	226	164.68	.00198	611.30	.01965	(402)
509	215.5	6639020	.00727	224	162.46	.00200	611.30	.01984	(404)
252	482.0	14828157	.00727	224	162.14	.00200	611.30	.01987	(405
481	375.8	11536558	.00727	223	161.71	.00200	611.30	.01991	(405)
460	742.0	22721326	.00727	223	161.11	.00201	611.30	.01996	(406)
490	794.5	24118570	.00727	221	159.18	.00203	611.30	.02014	(407)
272	547.0	16303704	.00727	217	155.18	.00206	611.30	.02051	(411)
433	199.5	5904453	.00727	215	153.65	.00208	611.30	.02065	(412)
486	251.0	7410261	.00727	215	153.12	.00208	611.30	.02071	(413)
364	900.0	26287915	.00727	212	150.84	.00211	611.30	.02093	(415)
462	409.5	11708442	.00727	208	146.35	.00215	611.30	.02138	(419)
264	942.5	26858120	.00727	207	145.66	.00216	611.30	.02145	(420)
417	972.5	27121605	.00727	203	141.24	.00221	611.30	.02192	(424)
240	481.7	13391946	.00727	202	140.61	.00221	611.30	.02199	(424)
376	541.1	15009149	.00727	202	140.15	.00222	611.30	.02204	(425)
410	596.7	16547315	.00727	202	140.10	.00222	611.30	.02204	(425)
398	412.5	11411769	.00727	201	139.61	.00222	611.30	.02210	(425)
251	680.2	18322952	.00727	196	134.33	.00228	611.30	.02267	(430)
258	620.0	16609438	.00727	195	133.25	.00230	611.30	.02282	(431)
380	599.0	15865127	.00727	193	131.04	.00232	611.30	.02308	(433)
408	539.5	14102673	.00727	190	128.53	.00235	611.30	.02339	(436)
283	177.5	4678851	.00727	190	128.06	.00236	611.30	.02344	(436)
498	391.2	10095058	.00727	188	126.06	.00238	611.30	.02369	(438)
327	710.8	18246068	.00727	187	125.11	.00240	611.30	.02381	(439)
322	413.5	10607277	.00727	186	124.98	.00240	611.30	.02383	(439)
484	891.0	22403318	.00727	183	121.29	.00245	611.30	.02431	(442)
387	388.0	9717134	.00727	182	120.56	.00246	611.30	.02441	(443)
346	544.0	13271393	.00727	177	115.85	.00252	611.30	.02506	(447)
307	334.0	8127226	.00727	177	115.39	.00253	611.30	.02512	(448)
356	399.5	9711868	.00727	177	115.22	.00253	611.30	.02515	(448)
205	682.0	16342019	.00727	174	112.69	.00257	611.30	.02551	(450)
411	248.3	5930241	.00727	174	112.12	.00258	611.30	.02560	(451)
278	310.0	7377076	.00727	173	111.49	.00258	611.30	.02567	(451)
268	537.5	12703674	.00727	172	110.31	.00260	611.30	.02584	(452)
222	430.0	10130318	.00727	171	109.76	.00261	611.30	.02595	(453)
286	501.0	11701541	.00727	170	108.29	.00263	611.30	.02617	(454)
451	220.0	5137652	.00727	170	108.27	.00263	611.30	.02618	(454)
441	941.0	21871724	.00727	169	107.47	.00265	611.30	.02630	(455)
330	558.0	12531644	.00727	163	101.76	.00274	611.30	.02722	(460)

504	458.0	10224768	.00727	162	100.79	.00276	611.30	.02738	(461)
358	402.5	8809426	.00727	159	97.61	.00281	611.30	.02793	(464)
235	478.5	10184310	.00727	155	93.22	.00289	611.30	.02872	(468)
440	718.0	15156397	.00727	153	91.95	.00291	611.30	.02896	(469)
377	778.0	16125474	.00727	151	89.17	.00297	611.30	.02949	(472)
211	706.5	14405468	.00727	148	86.72	.00302	611.30	.02998	(474)
243	486.5	9627717	.00727	144	82.36	.00311	611.30	.03089	(478)
420	629.0	12260552	.00727	142	80.20	.00316	611.30	.03136	(480)
378	514.5	10000887	.00727	141	79.80	.00316	611.30	.03145	(481)
421	378.5	7262025	.00727	139	77.97	.00321	611.30	.03186	(482)
436	804.7	14945119	.00727	135	73.51	.00331	611.30	.03291	(486)
456	329.5	6018134	.00727	133	71.27	.00337	611.30	.03347	(489)
463	360.0	6517166	.00727	132	70.10	.00340	611.30	.03377	(490)
430	643.7	11642302	.00727	131	69.98	.00340	611.30	.03380	(490)
287	726.5	13130877	.00727	131	69.89	.00340	611.30	.03382	(490)
401	781.0	13812753	.00727	129	67.07	.00348	611.30	.03455	(492)
288	498.0	8713964	.00727	127	65.70	.00352	611.30	.03494	(494)
425	295.5	5133198	.00727	126	64.78	.00354	611.30	.03519	(495)
247	779.5	13523666.	.00727	126	64.62	.00355	611.30	.03524	(495)
342	481.5	8330351	.00727	126	64.27	.00356	611.30	.03533	(495)
341	529.0	9067162	.00727	125	63.10	.00359	611.30	.03566	(497)
339	379.9	6351642	.00727	122	60.04	.00368	611.30	.03656	(497)
487	560.6	9331237	.00727	121	59.50	.00370	611.30	.03675	(497)
323	577.5	9570873	.00727	120	58.98	.00371	611.30	.03689	(500)
404	745.9	12327327	.00727	120	58.64	.00372	611.30	.03699	(500)
343	855.5	14095903	.00727	120	58.28	.00373	611.30	.03710	(501)
449	638.0	10438211	.00727	119	57.43	.00376	611.30	.03736	(501)
289	667.7	10660544	.00727	116	54.56	.00385	611.30	.03829	(504)
336	887.5	13778108	.00727	113	51.35	.00396	611.30	.03938	(507)
505	312.0	4687727	.00727	109	47.72	.00409	611.30	.04069	(510)
372	601.0	8936539	.00727	108	46.59	.00414	611.30	.04111	(511)
335	465.5	6795238	.00727	106	44.62	.00421	611.30	.04188	(513)
247	420.5	6072170	.00727	105	43.47	.00426	611.30	.04233	(514)
348	918.2	12669100	.00727	100	38.80	.00446	611.30	.04430	(519)
454	342.0	4709609	.00727	100	38.60	.00447	611.30	.04439	(519)
447	640.5	8766787	.00727	100	38.00	.00449	611.30	.04466	(519)
439	599.0	5411534	.00727	99	37.09	.00454	611.30	.04507	(520)
396	685.2	9134452	.00727	97	35.41	.00461	611.30	.04586	(522)
344	412.0	5458977	.00727	96	34.82	.00464	611.30	.04614	(522)
340	715.5	9143616	.00727	93	31.40	.00481	611.30	.04784	(525)
246	587.5	7245186	.00727	90	28.15	.00499	611.30	.04957	(528)
508	859.0	10519006	.00727	89	27.52	.00502	611.30	.04992	(529)
429	382.5	4662137	.00727	89	27.10	.00505	611.30	.05015	(529)
338	460.9	5609540	.00727	88	26.97	.00505	611.30	.05023	(530)
357	674.0	8068652	.00727	87	25.52	.00514	611.30	.05106	(531)
406	430.9	5260115	.00727	80	18.01	.00562	611.30	.05589	(539)
337	768.1	8203445	.00727	78	16.15	.00576	611.30	.05724	(540)
203	964.0	9785527	.00727	74	12.29	.00606	611.30	.06022	(543)
491	763.2	7467929	.00727	69	7.81	.00645	611.30	.06411	(547)
499	704.5	4835130	.00727	50	-11.61	.00896	611.30	.08907	(565)

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APPENDIX 3 A

FULL STATE FUNDING MODEL
WITH RECAPTURE

BY DISTRICT NUMBER

APPENDIX 3A: FULL STATE FUNDING DATA WITH RECAPTURE PROVISIONS FOR EXCESS WEALTH BY DISTRICT NUMBER

USD	FTE	AV 1987	AFM Mean Levy	Revenue Per FTE @ AFM	Required Revenue to Fund AFM	EPP Aid to USDs w/ AFM	Aid or Cost/ Capture	Rec. Revenue to Fund R/L Est. Need	EPP Aid to District	Percent Aid at Est Need
101	1104.5	22376356	.00727	147.28	67937.79	-85.77	-139%	1175519.35	917.02	86.16%
102	576.0	19834212	.00727	249.47	35552.78	-187.96	-306%	353331.40	361.83	59.15%
103	225.5	16082626	.00727	518.50	13870.50	-456.99	-743%	137848.15	92.80	15.18%
104	205.0	10645149	.00727	377.51	12609.55	-316.00	-514%	125316.50	233.79	38.24%
200	336.7	30626428	.00727	661.28	20710.42	-599.77	-975%	205824.71	-49.98	-8.18%
202	3836.1	53148939	.00727	100.73	235958.51	-39.22	-64%	4082761.23	963.57	90.54%
203	964.0	9785527	.00727	73.80	59295.64	-12.29	-20%	589293.20	537.50	87.73%
204	2073.0	31441142	.00727	110.26	127510.23	-48.75	-79%	2206293.90	954.04	89.64%
205	682.0	16342019	.00727	174.20	41949.82	-112.69	-183%	416906.60	487.10	71.50%
206	506.0	17447915	.00727	250.68	31124.06	-189.17	-308%	309317.80	360.62	58.99%
208	607.5	24312310	.00727	290.95	37367.32	-229.44	-373%	371364.75	320.35	52.41%
209	145.3	61573700	.00727	3080.80	8937.40	-3019.29	-4909%	88821.89	-2469.50	-403.98%
210	897.5	172138611	.00727	1394.37	55205.22	-1332.86	-2167%	548641.75	-783.07	-128.10%
211	706.5	14405468	.00727	148.23	43456.81	-86.72	-141%	431883.45	463.07	75.75%
212	203.5	6991725	.00727	249.78	12517.28	-188.27	-306%	124399.55	361.52	59.14%
213	128.0	6173979	.00727	350.66	7873.28	-289.15	-470%	78246.40	260.64	42.64%
214	1500.1	149167192	.00727	722.92	92271.15	-661.41	-1075%	1596556.43	341.38	32.08%
215	685.0	138878750	.00727	1473.94	42134.35	-1412.43	-2296%	418740.50	-862.64	-141.12%
216	254.5	44148764	.00727	1261.15	15654.30	-1199.64	-1950%	155575.85	-649.85	-106.31%
217	216.0	57832171	.00727	1946.48	13286.16	-1884.97	-3064%	132040.80	-1335.18	-218.42%
218	596.0	45462536	.00727	554.55	36659.96	-493.04	-802%	364334.80	56.75	9.28%
219	203.5	14774257	.00727	527.81	12517.28	-466.30	-758%	124399.55	83.49	13.66%
220	237.7	28655649	.00727	876.43	14620.93	-814.92	-1325%	145306.01	-265.13	-43.37%
221	172.5	8866507	.00727	373.68	10610.48	-312.17	-508%	105449.25	237.62	38.87%
222	430.0	10130318	.00727	171.27	26449.30	-107.76	-175%	262859.00	440.03	71.98%
223	384.5	18078945	.00727	341.83	23650.59	-280.32	-456%	235044.65	269.47	44.08%
224	403.4	16741572	.00727	301.71	24813.13	-240.20	-391%	246598.42	309.59	50.64%
225	169.0	10773754	.00727	463.46	10395.19	-401.95	-653%	103309.70	147.54	24.13%
226	401.5	58155719	.00727	1053.03	24696.26	-991.52	-1612%	245456.95	-441.73	-72.26%
227	243.5	17112582	.00727	510.91	14977.68	-449.40	-731%	148851.55	100.39	16.42%
228	139.0	10641709	.00727	556.58	8549.89	-495.07	-805%	84970.70	54.72	8.95%
229	6595.0	168667464	.00727	185.93	405658.45	-124.42	-202%	7019058.50	878.37	82.53%
230	1212.5	12795266	.00727	76.72	74580.88	-15.21	-25%	1290463.75	987.58	92.75%
231	1656.2	31601966	.00727	138.72	101872.86	-77.21	-126%	1762693.66	925.58	86.97%
232	1651.8	20937425	.00727	92.15	101602.22	-30.64	-50%	1758010.74	972.15	91.34%
233	12139.6	216122462	.00727	129.43	746706.80	-67.92	-110%	12920176.28	934.87	87.84%
234	2046.5	35288463	.00727	125.36	125880.21	-63.85	-104%	2178039.95	938.94	88.22%
235	478.5	10184319	.00727	154.73	29432.53	-93.22	-152%	292507.05	456.57	74.65%
237	643.0	20389821	.00727	230.53	39550.93	-169.02	-275%	393065.50	360.77	62.25%
238	208.5	6589196	.00727	229.75	12824.83	-168.24	-274%	127456.05	361.55	62.42%
239	642.5	21345287	.00727	241.53	39520.17	-180.02	-293%	392760.25	367.77	63.49%
240	461.7	13391946	.00727	202.12	29629.37	-140.61	-229%	294463.21	409.18	66.94%
241	322.0	14164066	.00727	319.79	19806.22	-258.28	-420%	196838.60	291.51	47.69%
242	108.5	8207005	.00727	549.91	6673.84	-488.40	-794%	66326.05	61.57	10.04%
243	486.5	9627717	.00727	143.87	29924.61	-82.36	-134%	297397.45	467.43	76.46%
244	765.6	493247327	.00727	4683.79	47092.06	-4622.28	-7515%	468011.28	-4072.47	-666.23%

245	319.5	11637231	.00727	264.80	19652.44	-203.29	-330%	155510.35	346.50	56.63%
246	587.5	7245186	.00727	89.66	36137.12	-28.15	-46%	359138.75	521.64	85.33%
247	779.5	13523666	.00727	126.13	47947.04	-64.62	-105%	476508.35	485.17	79.37%
248	1039.0	16466831	.00727	115.22	63908.69	-53.71	-87%	1105807.70	549.08	89.17%
249	420.5	6072170	.00727	104.98	25864.95	-43.47	-71%	257051.65	506.32	82.33%
250	2909.0	44687539	.00727	111.68	178932.59	-50.17	-82%	3096048.70	952.62	89.51%
251	680.2	18322952	.00727	195.84	41839.10	-134.33	-218%	415806.26	415.46	67.70%
252	482.0	14828157	.00727	223.65	29647.82	-162.14	-264%	294646.60	387.65	63.41%
253	4460.5	82945104	.00727	135.19	274365.35	-73.68	-120%	4747310.15	929.11	87.30%
254	802.0	38090956	.00727	345.29	49331.02	-283.78	-461%	490262.60	266.01	43.52%
255	314.0	21866431	.00727	506.27	19314.14	-444.76	-723%	191948.20	105.03	17.18%
256	333.0	10912236	.00727	238.23	20482.83	-176.72	-287%	203562.90	373.07	61.03%
257	1746.0	29248558	.00727	121.79	107396.46	-60.28	-98%	1858267.80	542.51	88.56%
258	620.0	16609438	.00727	194.76	38136.20	-133.25	-217%	379006.00	416.54	68.14%
259	43306.5	1110929480	.00727	186.23	2667596.44	-124.72	-203%	46157094.55	878.07	82.50%
260	5296.8	144884706	.00727	202.30	320270.27	-140.79	-229%	5541597.24	862.00	80.97%
261	3117.8	41372600	.00727	96.47	191775.88	-34.96	-57%	3318274.54	967.83	90.94%
262	1882.0	24968380	.00727	96.45	115761.82	-34.94	-57%	2003012.60	967.85	90.94%
263	1803.0	16225664	.00727	65.42	110902.53	-3.91	-6%	1918932.90	998.88	93.85%
264	942.5	26858120	.00727	207.17	57973.17	-145.66	-237%	576150.25	404.13	66.11%
265	1854.7	34073587	.00727	133.56	114082.60	-72.05	-117%	1973957.21	930.74	87.45%
266	1740.1	23585193	.00727	98.54	107033.55	-37.03	-60%	1851988.43	965.76	90.74%
267	1383.5	22491285	.00727	118.19	85099.08	-56.68	-92%	1472459.05	946.11	88.90%
268	537.5	12703674	.00727	171.82	33061.62	-110.31	-179%	328573.75	459.48	71.69%
269	188.0	15884436	.00727	614.25	11563.88	-552.74	-899%	114924.40	-2.95	-.46%
270	489.0	26603844	.00727	395.52	30078.39	-334.01	-543%	298925.70	215.78	33.80%
271	406.0	21274100	.00727	380.94	24973.06	-319.43	-519%	248187.80	230.36	37.65%
272	547.0	16303704	.00727	216.69	33645.97	-155.18	-252%	334381.10	394.61	64.55%
273	780.0	25426604	.00727	236.99	47977.80	-175.48	-285%	476814.00	374.31	61.23%
274	475.5	24746636	.00727	378.36	29248.00	-316.85	-515%	290673.15	232.94	38.11%
275	108.5	10255602	.00727	687.17	6673.84	-625.66	-1017%	66326.05	-75.67	-12.41%
278	310.0	7377076	.00727	173.00	19068.10	-111.49	-181%	189503.00	438.30	71.79%
279	198.5	7587161	.00727	277.88	12209.73	-216.37	-352%	121343.05	333.42	54.54%
280	124.0	5466891	.00727	496.41	7627.24	-434.90	-707%	75801.20	114.89	18.80%
281	504.6	23633372	.00727	340.53	31037.95	-279.02	-454%	308461.98	270.77	44.27%
282	446.9	17021619	.00727	276.90	27488.82	-215.39	-350%	273189.97	334.40	54.70%
283	177.5	4628351	.00727	189.57	10918.02	-128.06	-208%	108505.75	421.73	68.99%
284	540.5	25133780	.00727	338.06	33246.15	-276.55	-450%	330407.65	273.24	44.70%
285	202.0	7198490	.00727	259.07	12425.02	-197.56	-321%	123482.60	352.23	57.62%
286	501.0	11701541	.00727	169.80	30816.51	-108.29	-176%	306261.30	441.50	72.22%
287	726.5	13130877	.00727	131.40	44687.01	-69.89	-114%	444109.45	479.90	78.50%
288	498.0	8713964	.00727	127.21	30631.98	-65.70	-107%	304427.40	484.09	79.19%
289	667.7	10660544	.00727	116.07	41070.23	-54.56	-89%	408165.01	495.23	81.01%
290	2135.5	34355026	.00727	116.95	131354.60	-55.44	-90%	2272812.65	947.35	89.01%
291	147.5	7945040	.00727	391.60	9072.73	-330.09	-537%	90166.75	219.70	35.94%
292	210.5	10759041	.00727	371.58	12947.85	-310.07	-504%	128678.65	259.72	39.21%
293	320.5	13817096	.00727	313.42	19713.95	-251.91	-410%	195921.65	297.88	48.73%
294	582.5	22948867	.00727	286.42	35829.57	-224.91	-366%	356082.25	324.33	53.15%
295	119.3	5762856	.00727	351.03	7341.22	-289.52	-471%	72958.65	260.27	42.56%
297	419.0	14668970	.00727	254.52	25772.69	-193.01	-314%	256134.70	356.78	58.36%
298	401.0	16080733	.00727	327.80	24665.51	-266.29	-433%	245131.30	283.50	46.38%
299	208.5	18069184	.00727	630.04	12824.83	-568.53	-924%	127456.05	-18.74	-3.07%
300	420.5	31364357	.00727	542.26	25864.95	-480.75	-782%	257051.65	69.04	11.29%
301	91.0	10940580	.00727	874.04	5597.41	-812.53	-1321%	55628.30	-262.74	-42.98%

302	204.5	12492110	.00727	444.10	12578.80	-382.59	-622%	125010.85	167.20	27.35%	
303	322.5	21912017	.00727	493.95	19836.97	-432.44	-703%	197144.25	117.35	19.25%	
304	123.5	9767700	.00727	574.99	7596.48	-513.48	-835%	75495.55	80.31	5.94%	
305	6675.8	130025743	.00727	141.60	410628.46	-60.09	-130%	7105053.94	922.73	86.70%	
306	657.1	27173399	.00727	300.64	40413.22	-239.13	-389%	401685.23	316.66	50.82%	
307	334.0	8127226	.00727	176.90	20544.34	-115.39	-188%	204174.20	434.40	71.36%	
308	4897.3	111820437	.00727	166.00	301232.92	-104.49	-170%	5212196.39	898.50	84.40%	
309	1472.5	33118199	.00727	163.51	90573.47	-102.00	-166%	1567181.75	900.79	84.64%	
310	516.0	19147276	.00727	269.77	31739.16	-208.26	-339%	315430.80	341.53	55.87%	
311	263.5	8673539	.00727	239.30	16207.89	-177.79	-285%	161077.55	372.00	60.85%	
312	1123.5	31188521	.00727	201.82	69106.49	-140.31	-228%	1195741.05	862.48	81.04%	
313	2145.5	45166262	.00727	153.05	131969.70	-91.54	-149%	2283455.65	911.25	85.62%	
314	149.5	10055999	.00727	489.01	9195.74	-427.50	-695%	91389.35	122.29	20.03%	
315	1210.5	33323302	.00727	200.13	74457.85	-138.62	-225%	1288335.15	864.17	81.20%	
316	142.5	7260366	.00727	370.41	8765.17	-308.90	-502%	87110.25	240.69	39.41%	
317	73.5	4578880	.00727	452.90	4520.98	-391.39	-636%	44930.55	156.40	25.91%	
318	472.5	15939619	.00727	245.25	29063.47	-183.74	-299%	288839.25	366.05	59.86%	
320	1176.1	19083197	.00727	117.96	72341.91	-56.45	-92%	1251723.23	946.34	88.92%	
321	1009.1	224298706	.00727	1615.95	62069.74	-1554.44	-2527%	1073985.13	-551.65	-51.83%	
322	413.5	10607277	.00727	186.49	25434.38	-124.98	-203%	252772.55	424.81	69.45%	
323	577.5	9570873	.00727	120.49	35522.03	-58.98	-96%	353025.75	490.81	80.29%	
324	168.0	6117627	.00727	264.73	10333.68	-203.22	-330%	102698.40	346.57	56.69%	
325	711.5	22685326	.00727	231.80	43764.36	-170.29	-277%	434939.95	379.50	62.05%	
326	227.5	13756829	.00727	439.61	13993.52	-378.10	-615%	139070.75	171.69	28.09%	
327	710.8	18246068	.00727	186.62	43721.31	-125.11	-203%	434512.04	424.68	69.47%	
328	475.5	44532540	.00727	680.87	29248.00	-619.36	-1007%	290673.15	-69.57	-11.38%	
329	522.4	16406838	.00727	228.33	32132.82	-166.82	-271%	319343.12	382.97	62.65%	
330	558.0	12531644	.00727	163.27	34322.58	-101.76	-165%	341105.40	448.03	73.29%	
331	1098.7	51413011	.00727	340.20	67581.04	-278.69	-453%	1169346.41	724.10	68.04%	
332	307.0	34561228	.00727	818.44	18883.57	-756.93	-1231%	187669.10	-207.14	-33.88%	
333	1354.4	31535351	.00727	169.27	83309.14	-107.76	-175%	1441487.92	595.03	84.10%	
334	265.0	11967894	.00727	328.33	16300.15	-266.82	-434%	161994.50	382.97	46.29%	
335	465.5	6795238	.00727	106.13	28632.90	-44.62	-73%	284560.15	505.17	82.64%	
336	887.5	13778108	.00727	112.86	54590.12	-51.35	-83%	542528.75	498.44	81.54%	
337	768.1	8203445	.00727	77.64	47245.83	-16.13	-26%	469539.53	533.00	87.30%	
338	460.9	5609540	.00727	88.48	28349.96	-26.97	-44%	281748.17	522.82	85.53%	
339	379.9	6351642	.00727	121.55	23367.65	-60.04	-98%	232232.87	489.75	80.12%	
340	715.5	9143616	.00727	92.91	44010.40	-31.40	-51%	437385.15	518.39	84.86%	
341	529.0	9067162	.00727	124.61	32538.79	-63.10	-103%	323377.70	486.69	79.62%	
342	481.5	8330351	.00727	125.78	29617.06	-64.27	-104%	294340.95	485.52	79.42%	
343	855.5	14095903	.00727	119.79	52621.81	-58.28	-95%	522967.15	491.51	80.40%	
344	412.0	5458977	.00727	96.33	25342.12	-34.82	-57%	251855.60	514.97	84.24%	
345	3374.5	78700961	.00727	169.55	207565.49	-108.04	-176%	3591480.35	894.75	84.07%	
346	544.0	13271393	.00727	177.36	33461.44	-115.85	-188%	332547.20	433.94	70.99%	
347	378.7	15186857	.00727	291.55	23293.84	-230.04	-374%	231499.31	319.75	52.31%	
348	918.2	12669100	.00727	100.31	56478.48	-38.80	-63%	561295.60	510.99	83.59%	
349	283.5	11989551	.00727	307.46	17438.08	-245.95	-400%	173303.55	303.54	49.70%	
350	429.0	19710461	.00727	334.02	26387.79	-272.51	-445%	262247.70	277.28	45.36%	
351	282.0	26168374	.00727	674.62	17345.82	-613.11	-997%	172386.60	-65.32	-10.36%	
352	1232.0	36033877	.00727	212.63	75780.32	-151.12	-246%	1311217.60	851.67	80.02%	
353	1884.0	28665817	.00727	110.62	115884.84	-49.11	-80%	2005141.20	953.68	89.61%	
354	222.5	15509823	.00727	506.77	13685.98	-445.26	-724%	136014.25	104.53	17.10%	
355	552.1	20938582	.00727	275.72	33959.67	-214.21	-348%	337498.73	335.58	54.90%	
356	399.5	9711868	.00727	176.73	24573.24	-115.22	-187%	244214.35	434.57	71.09%	

357	674.0	8068652	.00727	87.03	41457.74	-25.52	-4%	412016.20	524.27	55.76%
358	402.5	8809426	.00727	159.12	24757.77	-97.61	-15%	246048.25	452.18	73.97%
359	212.5	8841247	.00727	302.47	13070.88	-240.96	-39%	129961.25	398.83	59.52%
360	301.0	9793442	.00727	236.54	18514.51	-175.03	-28%	184001.30	374.76	61.31%
361	985.5	38543157	.00727	286.54	60618.10	-225.03	-36%	602436.15	324.76	53.13%
362	780.3	101714100	.00727	947.66	47996.25	-886.15	-144%	476997.39	-336.36	-55.02%
363	605.5	110847385	.00727	1330.90	37244.31	-1269.39	-206%	370142.15	-719.60	-117.72%
364	900.0	26287915	.00727	212.35	55359.00	-150.84	-24%	550170.00	398.95	65.26%
365	967.6	30396330	.00727	228.38	59517.08	-166.87	-27%	591493.88	382.92	62.64%
366	560.0	19598346	.00727	254.43	34445.60	-192.92	-31%	342328.00	356.87	58.38%
367	1096.0	15712899	.00727	104.23	67414.96	-42.72	-6%	1166472.80	960.07	90.21%
368	1442.6	28356915	.00727	142.91	88734.33	-81.40	-13%	1535359.18	921.39	86.57%
369	268.0	8402979	.00727	227.95	16484.68	-166.44	-27%	163828.40	383.35	62.71%
371	210.5	10680676	.00727	368.88	12947.85	-307.37	-50%	128678.65	242.42	39.66%
372	601.0	8936539	.00727	108.10	36967.51	-46.59	-7%	367391.30	503.20	82.32%
373	3035.7	52972852	.00727	126.86	186725.91	-65.35	-10%	3230895.51	937.44	88.08%
374	496.0	41981130	.00727	622.86	30139.90	-561.35	-91%	299537.00	-11.56	-1.89%
375	1163.0	43334984	.00727	270.89	71536.13	-209.38	-34%	1237780.90	795.41	74.55%
376	541.1	15009149	.00727	201.66	33283.06	-140.15	-22%	330774.43	409.64	67.01%
377	778.0	16125474	.00727	150.68	47854.78	-89.17	-14%	475591.40	460.62	75.35%
378	514.5	13000887	.00727	141.31	31646.90	-79.80	-13%	314513.85	469.99	76.88%
379	1561.6	33961009	.00727	158.10	96054.02	-96.59	-15%	1662010.88	906.20	85.14%
380	559.0	15865127	.00727	192.55	36844.49	-131.04	-21%	366168.70	418.75	68.51%
381	251.5	9115444	.00727	263.50	15469.76	-201.99	-32%	153741.95	347.80	56.90%
382	1324.0	40663939	.00727	223.28	81439.24	-161.77	-26%	1409133.20	841.02	79.02%
383	5848.6	123846961	.00727	153.95	359747.39	-92.44	-15%	6224664.58	910.35	85.54%
384	248.5	7832754	.00727	229.15	15285.23	-167.64	-27%	151908.05	382.15	62.51%
385	1564.0	26682188	.00727	124.03	96201.64	-62.52	-10%	1664565.20	940.27	88.35%
386	288.0	10261054	.00727	259.02	17714.88	-197.51	-32%	176054.40	352.28	57.63%
387	386.0	9717134	.00727	182.07	23865.88	-120.56	-19%	237184.40	429.23	70.22%
388	352.5	16940246	.00727	349.38	21682.27	-287.87	-46%	215483.25	261.92	42.85%
389	691.5	21804853	.00727	229.24	42534.17	-167.73	-27%	422713.95	382.06	62.50%
390	141.5	6816599	.00727	350.32	8703.66	-288.81	-47%	86498.95	260.98	42.69%
392	475.5	16147636	.00727	246.88	29248.00	-185.37	-30%	290673.15	364.42	59.61%
393	303.0	9611881	.00727	230.62	18637.53	-169.11	-27%	185223.90	380.68	62.27%
394	1233.0	13343104	.00727	78.67	75841.83	-17.16	-2%	1312281.90	985.63	92.51%
395	364.0	26653509	.00727	532.34	22389.64	-470.83	-76%	222513.20	78.96	12.92%
396	685.2	9134452	.00727	96.92	42146.65	-35.41	-5%	418862.76	514.58	84.15%
397	294.5	12842128	.00727	317.02	18114.69	-255.51	-41%	180027.85	294.28	48.14%
398	412.5	11411769	.00727	201.12	25372.88	-139.61	-22%	252161.25	410.18	67.10%
399	170.5	18988252	.00727	809.65	10487.45	-748.14	-121%	104226.65	-198.35	-32.45%
400	794.5	24118570	.00727	220.69	48869.69	-159.18	-25%	485677.85	390.61	63.90%
401	173.0	15502771	.00727	651.47	10641.23	-589.96	-95%	105754.90	-40.17	-6.57%
402	1813.5	26096927	.00727	104.62	111548.38	-43.11	-7%	1930108.05	959.68	90.17%
403	352.0	17145671	.00727	354.12	21651.52	-292.61	-47%	215177.60	257.18	42.07%
404	745.9	12327327	.00727	120.15	45880.31	-58.64	-9%	455968.67	491.15	80.35%
405	750.1	24012707	.00727	232.73	46138.65	-171.22	-27%	458536.15	378.57	61.93%
406	480.9	5260115	.00727	79.52	29580.16	-18.01	-2%	293974.17	531.73	86.99%
407	1232.7	56570307	.00727	333.63	75823.38	-272.12	-44%	1311962.61	730.67	63.63%
408	539.5	14102673	.00727	190.04	33184.64	-128.53	-20%	329796.35	421.26	68.91%
409	1677.1	32278259	.00727	139.92	103158.42	-78.41	-12%	1784937.53	934.38	86.85%
410	596.7	16547315	.00727	201.61	36703.02	-140.10	-22%	364762.71	409.69	67.02%
411	248.3	5930241	.00727	173.63	15272.93	-112.12	-18%	151785.79	437.67	71.60%
412	529.0	16625938	.00727	228.49	32538.79	-166.98	-27%	323377.70	382.81	62.62%

413	1943.0	38690813	.00727	144.77	119513.93	-83.26	-135%	2067934.90	919.53	86.40%
415	1100.1	27684377	.00727	182.95	67667.15	-121.44	-197%	1170836.45	851.35	82.81%
416	1024.0	19888813	.00727	141.20	62986.24	-79.69	-130%	1089942.20	925.10	86.73%
417	972.5	27121605	.00727	202.75	59818.47	-141.24	-230%	994489.25	408.55	66.85%
418	2288.3	77023974	.00727	244.71	140753.33	-183.20	-298%	2433457.69	819.59	77.01%
419	384.5	13469387	.00727	254.67	23650.59	-193.16	-314%	235044.85	356.65	58.34%
420	629.0	12260552	.00727	141.71	38689.79	-80.20	-130%	384507.70	469.59	76.82%
421	378.5	7262025	.00727	139.48	23281.53	-77.97	-127%	231377.05	471.82	77.18%
422	430.0	21407373	.00727	361.93	26449.30	-300.42	-488%	262859.00	249.37	40.79%
423	426.0	15939512	.00727	272.02	26203.26	-210.51	-342%	260413.80	339.28	55.50%
424	118.0	13804876	.00727	850.52	7258.18	-789.01	-1283%	72133.40	-239.22	-39.13%
425	295.5	5133198	.00727	126.29	18176.20	-64.78	-105%	180639.15	485.01	79.34%
426	259.0	9465551	.00727	265.69	15931.09	-204.18	-332%	158326.70	345.61	56.54%
427	605.5	19818703	.00727	237.96	37244.31	-176.45	-287%	370142.15	373.34	61.07%
428	3328.9	89728376	.00727	195.96	204760.64	-134.45	-219%	3342948.27	868.34	81.35%
429	382.5	4662137	.00727	88.61	23527.58	-27.10	-44%	233822.25	522.69	85.50%
430	643.7	11642302	.00727	131.49	39593.99	-69.98	-114%	393493.81	479.61	78.49%
431	691.0	27659661	.00727	291.01	42503.41	-229.50	-373%	422408.30	320.29	52.40%
432	403.5	13792788	.00727	248.51	24819.28	-187.00	-304%	246659.55	362.79	59.35%
433	199.5	5904453	.00727	215.16	12271.24	-153.65	-250%	121954.35	396.14	64.80%
434	1215.2	14450326	.00727	86.45	74746.95	-24.94	-41%	1293337.36	977.85	91.58%
435	1386.5	25682961	.00727	134.67	85283.61	-73.16	-119%	1475651.95	929.63	87.35%
436	804.7	14945119	.00727	135.02	49497.10	-73.51	-120%	491913.11	476.28	77.91%
437	3319.6	66379379	.00727	145.37	204188.60	-83.86	-136%	3533650.28	918.93	86.34%
438	353.8	20919817	.00727	429.87	21762.24	-368.36	-599%	216277.94	181.43	29.68%
439	399.0	5411534	.00727	98.60	24542.49	-37.09	-60%	243908.70	512.70	83.87%
440	718.0	15156397	.00727	153.46	44164.18	-91.95	-149%	438913.40	457.84	74.90%
441	941.0	21871724	.00727	168.98	57880.91	-107.47	-175%	575233.30	442.32	72.36%
442	378.1	12033020	.00727	231.37	23256.93	-169.86	-276%	231132.53	379.95	62.15%
443	4120.1	91821236	.00727	162.02	253427.35	-100.51	-163%	4385022.43	902.28	84.78%
444	386.0	25252713	.00727	475.61	23742.86	-414.10	-673%	235961.80	135.69	22.20%
445	2765.6	50707784	.00727	133.30	170112.06	-71.79	-117%	2943428.08	951.00	87.48%
446	2348.8	46610250	.00727	144.58	144467.14	-83.07	-135%	2494506.34	919.72	86.42%
447	640.5	8766787	.00727	99.51	39397.15	-38.00	-62%	391537.65	511.79	83.72%
448	386.5	12565908	.00727	236.36	23773.61	-174.85	-284%	236267.45	374.74	61.33%
449	638.0	10438211	.00727	118.94	39243.38	-57.43	-93%	390009.40	492.36	80.54%
450	3226.5	54215264	.00727	122.16	198462.01	-60.65	-99%	3433963.95	942.14	88.32%
451	220.0	5137652	.00727	169.78	13532.20	-108.27	-176%	134486.00	441.52	72.23%
452	493.6	65907958	.00727	970.73	30361.34	-909.22	-1478%	301737.68	-357.43	-58.80%
453	4260.0	62118557	.00727	106.01	262032.60	-44.50	-72%	4533918.00	958.29	90.04%
454	342.0	4709609	.00727	100.11	21036.42	-38.60	-63%	209064.60	511.19	83.62%
455	152.5	7198536	.00727	343.17	9380.27	-281.66	-458%	93223.25	268.13	43.86%
456	329.5	6018134	.00727	132.78	20267.54	-71.27	-116%	201423.35	478.52	76.28%
457	5629.1	153976395	.00727	198.86	346245.94	-137.35	-223%	5991051.13	865.44	81.32%
458	1150.6	14656197	.00727	92.60	70773.41	-31.09	-51%	1224583.58	971.70	91.30%
459	284.0	12266609	.00727	314.01	17468.84	-252.50	-410%	173609.20	297.29	48.63%
460	742.3	22721326	.00727	222.62	45640.42	-161.11	-262%	453584.60	388.68	63.55%
461	781.0	13812733	.00727	128.58	48039.31	-67.07	-109%	477425.30	482.72	78.97%
462	409.5	11708442	.00727	207.86	25188.34	-146.35	-238%	250327.35	403.44	66.00%
463	360.0	6517166	.00727	131.61	22145.60	-70.10	-114%	220068.00	479.69	78.47%
464	1251.0	17680023	.00727	102.74	76949.01	-41.23	-67%	1331459.30	961.56	90.35%
465	2273.1	50910359	.00727	162.83	139818.38	-101.32	-165%	2419260.33	901.47	84.70%
466	1102.0	35583300	.00727	234.75	67784.02	-173.24	-282%	1172858.60	829.55	77.94%
467	563.0	28907353	.00727	373.28	34630.13	-311.77	-507%	344161.90	238.02	38.94%

468	119.0	10398531	.00727	635.27	7319.69	-573.76	-933%	72744.70	-23.77	-3.92%
469	1461.5	15202944	.00727	75.62	89896.86	-14.11	-23%	1555474.45	966.63	92.59%
470	2967.4	57472165	.00727	140.80	182524.77	-79.29	-129%	3158203.82	923.50	88.77%
471	159.5	6866303	.00727	313.06	9810.84	-251.55	-409%	97502.55	298.24	48.79%
473	1285.0	30702048	.00727	185.23	79119.55	-123.72	-201%	1282481.50	879.07	82.00%
474	146.0	12[illegible]4336	.00727	637.09	8980.46	-575.58	-936%	89249.80	-25.79	-4.22%
475	6557.7	61729817	.00727	68.43	403364.13	-6.92	-11%	6979360.11	995.87	93.57%
476	122.0	10639601	.00727	634.02	7504.22	-572.51	-931%	74578.60	-22.72	-3.72%
477	220.0	11989562	.00727	396.20	13532.20	-334.69	-544%	134486.00	215.10	35.19%
479	257.5	8011564	.00727	226.19	15838.82	-164.68	-268%	157409.75	385.11	63.00%
480	3391.0	89826767	.00727	192.58	208580.41	-131.07	-213%	3609041.30	871.72	81.91%
481	375.8	11538558	.00727	223.22	23115.46	-161.71	-263%	229726.54	588.08	63.48%
482	367.0	20346568	.00727	403.05	22574.17	-341.54	-555%	224347.10	208.25	34.07%
483	560.0	34398913	.00727	446.57	34445.60	-385.06	-626%	342328.00	164.73	26.75%
484	891.0	22403318	.00727	182.80	54805.41	-121.29	-197%	544663.30	428.50	70.10%
486	251.0	7410261	.00727	214.63	15439.01	-153.12	-249%	153436.30	396.67	64.85%
487	560.6	9331237	.00727	121.01	34482.51	-59.50	-97%	342694.78	450.29	80.20%
488	326.5	10422576	.00727	232.07	20083.01	-170.56	-277%	199589.45	379.23	62.04%
489	3266.1	80071787	.00727	178.23	200897.81	-116.72	-190%	3476110.23	886.07	83.25%
490	2017.0	41954725	.00727	151.22	124065.67	-89.71	-146%	2146693.10	913.08	85.79%
491	783.2	7467929	.00727	69.32	48174.63	-7.81	-13%	478770.16	541.98	88.66%
492	234.0	11873430	.00727	368.89	14393.34	-307.38	-500%	143044.20	242.41	39.66%
493	1231.5	27330226	.00727	161.34	75749.57	-99.83	-162%	1310685.45	902.96	84.64%
494	419.0	36458565	.00727	632.59	25772.69	-571.08	-928%	256134.70	-21.29	-3.48%
495	1092.6	35473062	.00727	236.03	67205.83	-174.52	-284%	1162854.18	828.27	77.82%
496	152.0	10699735	.[illegible]7	511.76	9349.52	-450.25	-732%	92917.60	99.54	16.23%
497	7639.6	195279705	.00727	185.83	469911.80	-124.32	-202%	8130826.28	878.47	82.54%
498	391.2	10093058	.00727	187.57	24062.71	-126.06	-205%	239140.56	423.73	69.32%
499	704.5	4835130	.00727	49.90	43333.79	11.61	19%	430660.85	561.40	91.84%
500	22131.4	326875449	.00727	107.36	1361302.41	-45.87	-75%	23554449.02	956.92	89.91%
501	14181.7	325760905	.00727	167.00	872316.37	-105.49	-171%	15093583.31	897.30	84.31%
502	189.0	13071900	.00727	502.82	11625.39	-441.31	-717%	115535.70	108.46	17.75%
503	1957.5	29621570	.00727	110.01	120405.32	-48.50	-79%	2083367.25	954.29	89.66%
504	458.0	10224768	.00727	162.30	28171.56	-100.79	-164%	279975.40	449.00	73.45%
505	312.0	4687727	.00727	109.23	19191.12	-47.72	-77%	190725.60	502.07	82.13%
506	1605.1	26801962	.00727	121.39	98729.70	-59.88	-97%	1708307.53	942.91	88.59%
507	382.0	73310681	.00727	1395.21	23496.82	-1353.70	-2165%	233516.60	-783.91	-128.24%
508	859.0	10519006	.00727	89.03	52837.09	-27.52	-45%	525106.70	522.27	85.44%
509	215.5	6639020	.00727	223.97	13255.40	-162.46	-264%	131735..	387.33	63.36%
511	234.0	12919652	.00727	401.39	14393.34	-339.88	-553%	143044.20	209.51	34.34%
512	29068.1	796559111	.00727	199.22	1787978.83	-137.71	-224%	30937178.83	865.08	81.28%
	399755.2	11255101979	.00727	313.00 Mn	24598939.28	-251.49 M	-409% Mn	380998747.19	419.40 Mn	52.05%

APPENDIX 3 B

FULL STATE FUNDING MODEL
WITH RECAPTURE

BY

AID RATIO
TO FUND THE
AVERAGE PRACTICE MODEL

APPENDIX 3B: FULL STATE FUNDING DATA WITH RECAPTURE PROVISIONS FOR EXCESS WEALTH

Arrayed by percent aid based on funding the AFM high to low.

USD	FTE	AV 1987	AFM Mean Levy	Revenue Per FTE @ AFM	Required Revenue to Fund AFM	EPP Aid To USDs w/ AFM	Aid or Cost/ Capture	Required Revenue to Fund R/U Est. Need	EPP aid to District	Percent Aid at Est Need
499	704.5	4835130	.00727	49.90	43333.79	11.61	1%	450660.85	561.40	91.84%
263	1803.0	16225664	.00727	65.42	110902.53	-3.91	-6%	1918932.90	998.88	93.85%
475	6337.7	61729817	.00727	68.43	403364.13	-6.92	-11%	6979360.11	995.87	93.57%
491	783.2	7467929	.00727	69.32	48174.63	-7.81	-13%	478770.16	541.96	88.66%
205	964.0	9785527	.00727	73.80	59295.64	-12.29	-20%	569293.20	537.50	87.93%
467	1461.5	15202944	.00727	75.62	89876.86	-14.11	-23%	1555474.45	988.65	92.39%
230	1212.3	12795266	.00727	76.72	74580.88	-15.21	-25%	1290463.75	987.58	92.79%
337	768.1	8203445	.00727	77.64	47245.83	-16.13	-26%	469539.53	533.66	87.36%
394	1233.0	13343104	.00727	78.67	75841.83	-17.16	-28%	1312281.90	985.63	92.61%
406	480.9	5260115	.00727	79.52	29530.16	-18.01	-29%	293974.17	531.78	86.99%
454	1215.2	14450326	.00727	86.45	74746.95	-24.94	-41%	1293337.36	977.85	91.88%
357	674.0	8068652	.00727	87.03	41457.74	-25.52	-41%	412016.20	524.27	85.76%
338	460.9	5609540	.00727	88.48	28349.96	-26.97	-44%	281748.17	522.82	85.52%
429	382.5	4662137	.00727	88.61	23527.58	-27.10	-44%	233822.25	522.69	85.50%
508	859.0	10519006	.00727	89.03	52837.09	-27.52	-45%	525106.70	522.27	85.44%
246	587.5	7245186	.00727	89.66	36137.12	-28.15	-46%	359138.75	521.64	85.33%
252	1651.8	20937425	.00727	92.15	101602.22	-30.64	-50%	1758010.74	972.15	91.34%
438	1150.6	14656197	.00727	92.60	70773.41	-31.09	-51%	1224583.58	971.70	91.30%
340	715.5	9143616	.00727	92.91	44010.48	-31.40	-51%	437385.15	518.39	84.80%
344	412.0	5458977	.00727	96.33	25342.12	-34.82	-57%	251855.60	514.97	84.24%
262	1882.0	24968380	.00727	96.45	115761.82	-34.94	-57%	2003012.60	967.85	90.94%
261	3117.8	41372600	.00727	96.47	191775.88	-34.96	-57%	3318274.54	967.83	90.94%
396	685.2	9134452	.00727	96.92	42146.65	-35.41	-58%	418862.76	514.38	84.15%
266	1740.1	23585193	.00727	98.54	107033.55	-37.03	-60%	1851988.43	965.76	90.74%
439	399.0	5411534	.00727	98.60	24542.49	-37.09	-60%	243908.70	512.70	83.87%
447	640.5	8766787	.00727	99.51	39397.15	-38.00	-62%	391537.65	511.79	83.72%
454	342.0	4709609	.00727	100.11	21036.42	-38.60	-63%	209064.60	511.19	83.62%
348	918.2	12669100	.00727	100.31	56478.48	-38.80	-63%	561295.66	510.99	83.59%
202	3836.1	53148939	.00727	100.73	235958.51	-39.22	-64%	4082761.23	968.57	90.34%
464	1251.0	17680023	.00727	102.74	76949.01	-41.23	-67%	1331469.30	961.56	90.35%
367	1096.0	15712899	.00727	104.23	67414.96	-42.72	-69%	1166472.80	960.07	90.21%
402	1813.5	26096927	.00727	104.62	111548.38	-43.11	-70%	1930108.05	959.68	90.17%
249	420.5	6072170	.00727	104.98	25864.95	-43.47	-71%	257051.65	506.32	82.83%
453	4260.0	62118557	.00727	106.01	262032.60	-44.50	-72%	4533918.00	958.29	90.04%
335	465.5	6795238	.00727	106.13	28632.90	-44.62	-73%	284560.15	505.17	82.64%
500	22131.4	326875449	.00727	107.33	1361302.41	-45.87	-75%	23554449.02	956.92	89.91%
372	601.0	8936539	.00727	108.10	36967.51	-46.59	-76%	367391.30	503.20	82.32%
505	312.0	4687727	.00727	109.23	19191.12	-47.72	-78%	190725.60	502.07	82.13%
503	1957.5	29621570	.00727	110.01	120405.82	-48.50	-79%	2083867.25	954.29	89.56%
204	2073.0	31441142	.00727	110.26	127510.23	-48.75	-79%	2206293.90	954.04	89.54%
333	1884.0	28665817	.00727	110.62	115884.84	-49.11	-80%	2005141.20	953.68	89.51%
250	2909.0	44687539	.00727	111.63	178932.59	-50.17	-82%	3096048.70	952.62	89.41%
336	887.5	13776108	.00727	112.86	54590.12	-51.35	-83%	542528.75	498.44	81.54%
248	1039.0	16466831	.00727	115.22	63908.89	-53.71	-87%	1105807.70	949.06	89.17%

289	667.7	10660544	.00727	116.07	41070.23	-54.56	-89%	408165.01	495.23	81.01%
290	2135.5	34553026	.00727	116.95	131354.60	-55.44	-90%	2272812.65	947.35	89.01%
320	1170.1	19063197	.00727	117.96	72341.91	-56.45	-92%	1251723.23	946.34	88.92%
267	1383.5	22491285	.00727	118.19	85099.08	-56.68	-92%	1472459.05	946.11	88.90%
449	638.0	10436211	.00727	118.94	39243.38	-57.43	-93%	390009.40	492.66	89.84%
343	855.5	14095903	.00727	119.79	52671.81	-58.28	-95%	522967.15	491.51	88.48%
404	745.9	12327327	.00727	120.15	45880.31	-58.64	-95%	455968.67	491.15	88.35%
323	577.5	9570873	.00727	120.49	35522.03	-58.98	-96%	353025.75	490.81	88.29%
487	560.6	9331237	.00727	121.01	34482.51	-59.50	-97%	342694.78	490.29	88.20%
506	1605.1	26801962	.00727	121.39	98729.70	-59.88	-97%	1708307.93	942.91	88.59%
339	379.9	6351642	.00727	121.55	23367.65	-60.04	-98%	232232.87	489.75	88.12%
257	1746.0	29248558	.00727	121.79	107396.46	-60.28	-98%	1858267.80	942.51	88.56%
450	3226..	54215264	.00727	122.16	198462.01	-60.65	-99%	3433963.95	942.14	88.52%
385	1564.0	26682188	.00727	124.03	96201.64	-62.52	-102%	1664565.20	940.27	88.35%
341	529.0	9067162	.00727	124.61	32538.79	-63.10	-103%	328377.70	466.69	79.02%
234	2046.5	35288463	.00727	125.36	125880.21	-63.85	-104%	2178089.95	938.54	88.22%
342	481.5	8330351	.00727	125.78	29617.06	-64.27	-104%	294340.95	465.52	79.42%
247	779.5	13523666	.00727	126.13	47947.04	-64.62	-105%	476508.35	465.17	79.37%
425	295.5	5133198	.00727	126.29	18176.20	-64.78	-105%	180639.15	465.01	79.34%
373	3035.7	52972852	.00727	126.86	186725.91	-65.35	-106%	3230895.51	937.44	88.08%
288	498.0	8713964	.00727	127.21	30631.98	-65.70	-107%	304427.40	464.09	79.19%
461	781.0	13812733	.00727	128.58	48039.31	-67.07	-109%	477425.30	462.72	78.97%
233	12139.6	216122462	.00727	129.43	746706.80	-67.92	-110%	12920176.25	934.87	87.84%
287	726.5	13139877	.00727	131.40	44687.01	-69.89	-114%	444109.45	479.90	75.50%
430	643.7	11642302	.00727	131.49	39593.99	-69.98	-114%	393495.81	479.81	76.49%
463	360.0	6517166	.00727	131.61	22143.60	-70.10	-114%	220068.00	479.69	76.47%
456	329.5	6018134	.00727	132.78	20267.54	-71.27	-116%	201423.35	476.52	76.22%
445	2765.6	50707784	.00727	133.30	170112.06	-71.79	-117%	2948428.08	931.00	87.48%
265	1854.7	34073587	.00727	133.56	114082.60	-72.05	-117%	1973957.21	930.74	87.45%
435	1386.5	25682961	.00727	134.67	85283.61	-73.16	-119%	1475651.95	929.63	87.35%
436	804.7	14945119	.00727	135.02	49497.10	-73.51	-120%	491915.11	476.28	77.91%
255	4460.5	82945104	.00727	135.19	274365.35	-73.68	-120%	4747310.15	929.11	87.33%
231	10536.2	196019660	.00727	138.72	101872.86	-77.21	-126%	17626935.00	925.58	86.99%
424	378.5	7262025	.00727	139.48	23281.53	-77.97	-127%	231377.05	471.82	77.13%
409	1677.1	32278259	.00727	139.92	103158.42	-78.41	-127%	1784987.53	924.38	86.85%
470	2967.4	57472165	.00727	140.80	182524.77	-79.29	-129%	3158203.82	923.50	86.77%
416	1024.0	19868813	.00727	141.20	62986.24	-79.69	-130%	1089843.20	923.10	86.73%
378	514.5	10000887	.00727	141.31	31646.90	-79.80	-130%	314513.85	469.99	76.82%
305	6675.8	130025743	.00727	141.60	410628.46	-80.09	-130%	7105053.94	922.70	86.70%
420	629.0	12260552	.00727	141.71	38689.79	-80.20	-130%	384507.70	469.59	76.82%
368	1442.6	28356915	.00727	142.91	88734.33	-81.40	-132%	1535359.18	921.37	86.57%
243	486.5	9627717	.00727	143.87	29924.61	-82.36	-134%	297397.45	467.43	76.46%
446	2343.8	46610250	.00727	144.58	144167.14	-83.07	-135%	2494506.34	919.72	86.42%
413	1943.0	38690813	.00727	144.77	119513.93	-83.26	-135%	2067934.90	919.53	86.40%
437	3319.6	66379379	.00727	145.37	204188.60	-83.86	-136%	3533050.25	918.93	86.34%
101	1104.5	22376356	.00727	147.28	67937.79	-85.77	-139%	1175519.35	917.02	86.16%
211	706.5	14405468	.00727	148.23	43456.81	-86.72	-141%	751883.45	468.07	75.75%
377	778.0	16125474	.00727	150.68	47854.78	-89.17	-145%	828591.40	466.62	75.51%
450	2917.0	61954725	.00727	151.32	179065.67	-89.71	-146%	3146695.10	916.08	86.07%
313	2145.5	45166262	.00727	153.05	131969.70	-91.54	-149%	2283455.65	911.25	85.62%
440	718.0	15156397	.00727	153.46	44164.18	-91.95	-149%	458913.40	457.84	74.90%
333	5648.6	123846961	.00727	153.95	359747.39	-92.44	-150%	6224664.35	910.35	85.54%
235	476.5	10184310	.00727	154.73	29432.53	-93.22	-152%	272507.35	456.57	74.69%
379	15e1.6	33961009	.00727	158.10	96054.02	-96.59	-157%	1662010.88	906.20	85.14%

358	402.5	8809426	.00727	159.12	24757.77	-97.61	-159%	246048.25	452.15	73.97%
493	1231.5	27330226	.00727	161.34	75749.57	-99.83	-162%	1310695.45	902.96	84.84%
443	4120.1	91821236	.00727	162.02	253427.35	-100.51	-163%	4385022.43	902.28	84.78%
504	458.0	10224768	.00727	162.30	28171.58	-100.79	-164%	279975.40	449.03	73.45%
465	2273.1	50910359	.00727	162.83	139818.38	-101.32	-165%	2419260.33	901.47	84.72%
330	558.0	12531644	.00727	163.27	34322.58	-101.76	-165%	241105.40	443.03	73.29%
309	1472.5	33118199	.00727	163.51	90573.47	-102.00	-166%	1567181.75	900.79	84.64%
308	4897.3	111820437	.00727	166.00	301232.92	-104.49	-170%	5212196.39	898.30	84.40%
501	14181.7	325760905	.00727	167.00	872316.37	-105.49	-171%	15093583.81	897.30	84.31%
441	941.0	21871724	.00727	168.98	57880.91	-107.47	-175%	575233.30	442.32	72.36%
333	1354.4	31535851	.00727	169.27	83309.14	-107.76	-175%	1441487.92	895.03	84.10%
345	3374.5	78700961	.00727	169.55	207565.49	-108.04	-176%	359' '80.35	894.75	84.07%
451	220.0	5137652	.00727	169.78	13532.20	-108.27	-176%	134486.00	441.52	72.23%
286	501.0	11701541	.00727	169.80	30816.51	-108.29	-176%	306261.30	441.50	72.22%
222	430.9	10130518	.00727	171.27	26449.30	-109.76	-178%	262859.00	440.03	71.98%
268	537.5	12703674	.00727	171.82	33061.62	-110.31	-179%	328573.75	439.48	71.89%
278	310.0	7377076	.00727	173.00	19068.10	-111.49	-181%	189503.00	438.30	71.70%
411	248.3	5930241	.00727	173.63	15272.93	-112.12	-182%	151785.79	437.67	71.60%
205	682.0	16342019	.00727	174.20	41949.82	-112.69	-183%	416906.60	437.10	71.50%
356	399.5	9711868	.00727	176.73	24573.24	-115.22	-187%	244214.35	434.57	71.09%
307	334.0	8127226	.00727	176.90	20544.34	-115.39	-188%	204174.20	434.40	71.06%
346	544.0	13271393	.00727	177.36	33461.44	-115.85	-188%	332547.20	433.94	70.99%
489	3266.1	80071787	.00727	178.23	200897.81	-116.72	-190%	3476110.23	886.07	83.35%
387	386.0	9717134	.00727	182.07	23865.88	-120.56	-196%	237184.40	429.23	70.22%
484	891.0	22403318	.00727	182.80	54805.41	-121.29	-197%	544668.30	428.50	70.10%
415	1100.1	27684377	.00727	182.95	67667.15	-121.44	-197%	1170836.43	881.35	82.83%
475	1205.0	30702048	.00727	185.23	74119.55	-123.72	-201%	1252481.50	879.07	82.61%
497	7659.6	195279705	.00727	185.83	469911.80	-124.32	-202%	8130826.28	878.47	82.54%
229	6595.0	1686674e4	.00727	185.93	405658.45	-124.42	-202%	7019058.50	878.37	82.53%
259	43368.5	1110929480	.00727	186.23	2667596.44	-124.72	-203%	46157094.55	878.07	82.50%
322	413.5	10697277	.00727	186.49	25434.38	-124.98	-203%	252772.55	424.81	69.49%
327	710.8	182460e8	.00727	186.62	43721.31	-125.11	-203%	434512.04	424.68	69.47%
498	391.2	10093055	.00727	187.57	24062.71	-126.06	-205%	239140.52	423.73	69.33%
283	177.5	4628351	.00727	189.57	13918.02	-128.06	-208%	138305.75	421.73	68.99%
408	539.5	14102673	.00727	190.04	33184.64	-128.53	-209%	329796.35	421.26	68.91%
380	559.0	15865127	.00727	192.55	36844.49	-131.04	-213%	366186.70	418.75	68.50%
480	3391.0	898267e7	.00727	192.58	208560.41	-131.07	-213%	3609041.30	871.72	8...%
256	620.0	16609438	.00727	194.76	38136.20	-133.25	-217%	379006.00	416.54	68.14%
251	680.2	18322952	.00727	195.84	41859.10	-134.33	-218%	415806.26	415.46	67.96%
428	3328.9	89728376	.00727	195.96	204760.64	-134.45	-219%	3542946.27	868.34	81.35%
457	5629.1	153976395	.00727	198.86	346245.94	137.35	-223%	5991051.13	865.44	81.02%
512	29068.1	796559111	.00727	199.22	1787978.85	-137.71	-224%	30937178.85	865.08	81.02%
315	1210.5	33323302	.00727	200.13	74457.85	-138.62	-225%	1288335.15	864.17	81.02%
398	412.5	11411769	.00727	201.12	25372.88	-139.61	-227%	252161.25	410.18	67.10%
410	596.7	16547315	.00727	201.61	36703.02	-140.10	-228%	364762.71	409.69	67.02%
376	541.1	15009149	.00727	201.66	33283.06	-140.15	-228%	330774.43	409.64	67.0.%
312	1125.5	31188521	.00727	201.82	69106.49	-140.31	-228%	1175741.05	862.48	81.04%
240	481.7	13391946	.00727	202.12	29629.57	-140.61	-229%	2944e3.21	409.18	66.94%
260	5206.8	144284706	.00727	202.30	320270.27	-140.79	-229%	5541597.24	862.00	8..99%
417	972.3	27121e05	.00727	202.75	59818.47	-141.24	-230%	594489.25	408.55	66.83%
264	942.5	2e858120	.00727	207.17	57973.17	-145.66	-237%	576150.25	404.13	66.1.%
462	409.5	11708442	.00727	207.86	25188.34	-146.35	-238%	250527.35	403.44	66.00%
364	900.0	2e287915	.00727	212.35	55359.00	-150.84	-245%	550170.00	398.95	65.26%
352	1232.0	3e033877	.00727	212.63	75780.32	-151.12	-246%	1311217.60	851.67	80.02%

486	251.0	7410261	.00727	214.63	15439.01	-153.12	-249%	153436.30	396.67	64.67%
433	199.5	5904453	.00727	215.16	12271.24	-153.65	-250%	121954.35	396.14	64.60%
372	547.0	16303704	.00727	216.69	33645.97	-155.18	-252%	334381.10	394.61	64.55%
400	794.5	24118570	.00727	220.69	48869.69	-159.18	-259%	485677.85	390.61	63.92%
460	742.0	22721326	.00727	222.62	45640.42	-161.11	-262%	453584.60	388.68	63.58%
481	375.8	11538558	.00727	223.22	23115.46	-161.71	-263%	229726.54	388.08	63.48%
382	1324.0	40663939	.00727	223.28	81439.24	-161.77	-263%	1409133.20	841.02	79.92%
252	482.0	14828157	.00727	223.65	29647.82	-162.14	-264%	294646.60	387.65	63.41%
509	215.5	6639020	.00727	223.97	13255.40	-162.46	-264%	131735.15	387.33	63.36%
479	257.5	8011564	.00727	226.19	15838.82	-164.68	-268%	157409.75	385.11	63.00%
367	268.0	8402979	.00727	227.95	16484.68	-166.44	-271%	163828.40	383.35	62.71%
529	522.4	16406838	.00727	228.33	32132.82	-166.82	-271%	319343.12	382.97	62.65%
365	967.6	30396330	.00727	228.38	59517.08	-166.87	-271%	591493.88	382.92	62.64%
412	529.0	16625938	.00727	228.49	32538.79	-166.98	-271%	323377.70	382.81	62.62%
384	248.5	7832754	.00727	229.15	15285.23	-167.64	-273%	151908.05	382.15	62.51%
389	691.5	21804853	.00727	229.24	42534.17	-167.73	-273%	422713.95	382.06	62.50%
238	206.5	6589196	.00727	229.75	12824.83	-168.24	-274%	127456.05	381.55	62.42%
237	643.0	20389821	.00727	230.53	39550.93	-169.02	-275%	393065.90	380.77	62.29%
393	303.0	9611881	.00727	230.62	18637.53	-169.11	-275%	185223.90	380.68	62.27%
442	378.1	12033020	.00727	231.37	23256.93	-169.86	-276%	231132.53	379.93	62.15%
325	711.5	22685326	.00727	231.80	43764.36	-170.29	-277%	434939.95	379.50	62.08%
488	326.5	10422576	.00727	232.07	20083.01	-170.56	-277%	199539.45	379.23	62.04%
405	750.1	24012707	.00727	232.73	46138.65	-171.22	-278%	458536.13	378.57	61.93%
466	1162.0	35583300	.00727	234.75	67784.02	-173.24	-282%	1172858.60	829.55	77.94%
495	1092.6	35473032	.00727	236.03	67205.83	-174.52	-284%	1162854.18	828.27	77.82%
448	386.5	12565908	.00727	236.36	23773.61	-174.85	-284%	236267.45	374.94	61.33%
360	301.0	9793442	.00727	236.54	18514.51	-175.03	-285%	184001.30	374.76	61.31%
273	780.0	25426604	.00727	236.99	47977.80	-175.48	-285%	476814.00	374.31	61.23%
427	605.5	19818703	.00727	237.96	37244.31	-176.45	-287%	370142.15	373.34	61.07%
256	333.0	10912236	.00727	238.23	20482.83	-176.72	-287%	203562.90	373.07	61.03%
311	263.5	8673539	.00727	239.30	16207.89	-177.79	-289%	161077.35	372.00	60.85%
235	642.5	21345287	.00727	241.53	39520.17	-180.02	-293%	392760.25	369.77	60.49%
418	2356.5	77023974	.00727	244.71	140753.33	-183.20	-298%	2435437.69	817.59	77....
518	472.5	15939619	.00727	245.25	29063.47	-183.74	-299%	288839.25	366.05	59.83%
392	475.5	16147636	.00727	246.88	29248.00	-185.37	-301%	290673.15	364.42	59.5..%
432	403.5	13792788	.00727	248.51	24819.28	-187.00	-304%	246659.55	362.79	59.30%
102	578.0	19834212	.00727	249.47	35552.78	-187.96	-306%	353331.40	361.83	59.19%
212	203.5	6991725	.00727	249.78	12517.28	-188.27	-306%	124399.55	361.52	59.14%
206	506.0	17447915	.00727	250.68	31124.06	-189.17	-308%	309317.80	360.62	58.99%
366	560.0	19598346	.00727	254.43	34445.60	-192.92	-314%	342328.00	356.87	58.38%
297	419.0	14668970	.00727	254.52	25772.69	-193.01	-314%	256134.70	356.78	58.36%
419	384.5	13469387	.00727	254.67	23650.59	-193.16	-314%	235044.85	356.63	58.34%
386	288.0	10261054	.00727	259.02	17714.88	-197.51	-321%	176054.40	352.28	57.63%
285	202.0	7198490	.00727	259.07	12425.02	-197.56	-321%	123482.60	352.23	57.62%
381	251.5	9115444	.00727	263.50	15469.76	-201.99	-328%	153741.95	347.80	56.90%
324	168.0	6117627	.00727	264.73	10333.68	-203.22	-330%	102698.40	346.57	56.69%
245	319.5	11637251	.00727	264.80	19652.44	-203.29	-330%	195319.35	346.50	56.68%
426	259.0	9465551	.00727	265.69	15931.09	-204.18	-332%	158326.70	345.61	56.54%
310	516.0	19147276	.00727	269.77	31739.16	-208.26	-339%	315450.90	341.53	55.87%
375	1163.0	43334984	.00727	270.89	71536.13	-209.38	-340%	1237780.90	793.41	74.55%
423	426.0	15939512	.00727	272.02	26203.26	-210.51	-342%	260413.80	389.28	55.50%
355	552.1	20938582	.00727	275.72	33959.67	-214.21	-348%	337498.73	385.58	54.90%
282	446.9	17021619	.00727	276.90	27488.82	-215.39	-350%	273189.97	384.40	54.70%
279	198.5	7587161	.00727	277.88	12209.73	-216.37	-352%	121343.05	383.42	54.54%

294	582.5	22948867	.00727	286.42	35829.57	-224.91	-366%	356082.25	324.68	53.15%
361	985.5	38843157	.00727	286.54	60618.10	-225.03	-366%	602436.15	324.76	53.13%
208	607.5	24312310	.00727	290.95	37367.32	-229.44	-373%	371364.75	320.35	52.41%
431	691.0	27659661	.00727	291.01	42503.41	-229.50	-373%	422498.30	320.27	52.40%
347	573.7	15186857	.00727	291.55	23293.84	-230.04	-374%	231497.31	319.75	52.31%
306	657.1	27173399	.00727	300.64	40418.22	-239.13	-389%	401685.23	311.66	50.82%
224	403.4	16741572	.00727	301.71	24813.13	-240.20	-391%	246598.42	309.59	50.64%
359	212.5	8841247	.00727	302.47	13070.88	-240.96	-392%	129901.25	308.83	50.52%
349	283.5	11989551	.00727	307.46	17438.08	-245.95	-400%	173303.55	303.84	49.71%
471	159.5	6868303	.00727	313.06	9810.84	-251.55	-409%	97502.35	298.24	48.79%
293	320.5	13817096	.00727	313.42	19713.95	-251.91	-410%	195921.65	297.88	48.73%
459	284.0	12266609	.00727	314.01	17468.84	-252.50	-410%	173609.20	297.29	48.63%
397	294.5	12842128	.00727	317.02	18114.69	-255.51	-415%	180027.65	294.28	48.14%
241	322.0	14164066	.00727	319.79	19806.22	-258.28	-420%	196838.60	291.51	47.69%
298	401.0	18080733	.00727	327.80	24665.51	-266.29	-433%	245131.30	283.50	46.38%
334	265.0	11967894	.00727	328.33	16300.15	-266.82	-434%	161994.50	282.97	46.29%
407	1232.7	56570307	.00727	333.63	75823.38	-272.12	-442%	1311962.61	736.67	68.65%
350	429.0	19710461	.00727	334.02	26387.79	-272.51	-443%	262247.70	277.28	45.36%
264	540.5	25133780	.00727	338.06	33246.15	-276.55	-450%	330407.65	273.24	44.70%
331	1098.7	51413011	.00727	340.20	67581.04	-278.69	-453%	1169346.41	724.10	68.04%
281	504.6	23635372	.00727	340.53	31037.95	-279.02	-454%	308461.98	270.77	44.29%
223	384.5	18078945	.00727	341.83	23659.59	-280.32	-456%	235044.85	269.47	44.08%
455	152.5	7196536	.00727	343.17	9380.27	-281.66	-458%	93223.25	265.13	43.36%
254	802.0	38090956	.00727	345.29	49331.82	-283.78	-461%	490262.60	260.01	43.52%
388	352.5	16940246	.00727	349.38	21682.27	-287.87	-468%	215483.25	261.92	42.83%
390	141.5	6818399	.00727	350.32	8703.66	-288.81	-470%	86498.95	260.98	42.69%
213	128.0	6173979	.00727	350.66	7873.28	-289.15	-470%	78246.40	260.64	42.64%
295	119.3	5762856	.00727	351.03	7341.22	-289.52	-471%	72958.65	260.27	42.58%
403	352.0	17145671	.00727	354.12	21651.52	-292.61	-476%	215177.60	257.18	42.07%
422	430.0	21407373	.00727	361.93	26449.30	-300.42	-488%	262859.00	249.37	40.77%
371	210.5	10680676	.00727	368.88	12947.85	-307.37	-500%	128678.65	242.42	39.64%
492	234.0	11873430	.00727	368.89	14393.34	-307.38	-500%	143044.20	242.41	39.64%
316	142.5	7260366	.00727	370.41	8765.17	-308.90	-502%	87110.25	240.89	39.41%
292	210.5	10759041	.00727	371.58	12947.85	-310.07	-504%	128678.65	239.72	39.21%
467	563.0	28907353	.00727	373.28	34630.13	-311.77	-507%	344161.90	238.02	38.94%
221	172.5	8866507	.00727	373.62	10610.48	-312.17	-508%	105449.25	237.62	38.87%
104	205.0	10645149	.00727	377.51	12609.55	-316.00	-514%	125316.50	233.79	38.24%
274	473.5	24746636	.00727	378.36	29248.00	-316.85	-515%	290673.15	232.94	38.11%
271	406.0	21274100	.00727	380.94	24973.06	-319.43	-519%	248187.80	230.36	37.68%
291	147.5	7945040	.00727	391.60	9072.73	-330.09	-537%	90160.75	219.70	35.94%
270	489.0	26603844	.00727	395.52	30078.39	-334.01	-543%	298925.70	215.78	35.30%
477	220.0	11989562	.00727	396.20	13532.20	-334.69	-544%	134486.00	215.10	35.19%
511	234.0	12919652	.00727	401.39	14393.34	-339.88	-553%	143044.20	209.91	34.34%
482	367.0	20346568	.00727	403.05	22574.17	-341.54	-555%	224347.10	208.25	34.07%
438	353.8	20919817	.00727	429.87	21762.24	-368.36	-599%	216277.94	181.43	29.68%
326	227.5	13756829	.00727	439.61	13993.52	-378.10	-615%	139070.75	171.69	28.09%
302	204.5	12492110	.00727	444.10	12578.80	-382.59	-622%	125010.85	167.20	27.35%
485	560.0	34398913	.00727	446.57	34445.60	-385.06	-626%	342328.00	164.73	26.95%
317	73.5	4578880	.00727	452.90	4520.93	-391.39	-636%	44930.55	158.40	25.91%
225	167.0	10773754	.00727	463.46	10395.19	-401.95	-653%	103309.70	147.84	24.18%
444	386.0	25252713	.00727	475.61	23742.86	-414.10	-673%	235961.80	135.69	22.20%
314	149.5	10055999	.00727	489.01	9195.74	-427.50	-695%	91389.55	122.29	20.00%
303	322.5	21912017	.00727	493.95	19836.97	-432.44	-703%	197144.25	117.35	19.20%
280	124.0	8466891	.00727	496.41	7627.24	-434.90	-707%	75801.20	114.89	18.80%

502	189.0	13071900	.00727	502.82	11625.39	-441.31	-717%	115335.70	108.48	17.75%
255	314.0	21866431	.00727	506.27	19314.14	-444.76	-723%	191948.20	105.03	17.18%
354	222.5	15509823	.00727	506.77	13685.98	-445.26	-724%	136014.25	104.53	17.10%
227	243.5	17112382	.00727	510.91	14977.68	-449.40	-731%	148851.55	100.39	16.42%
496	152.0	10699755	.00727	511.76	9349.52	-450.25	-732%	92917.60	99.54	16.28%
105	225.5	1608262e	.00727	518.50	13870.50	-456.99	-743%	137848.15	92.80	15.18%
219	203.5	14774257	.00727	527.81	12517.28	-466.30	-758%	124399.55	83.49	13.66%
395	364.0	26653509	.00727	532.34	22389.64	-470.83	-765%	222513.20	78.96	12.92%
300	420.5	31564357	.00727	542.26	25864.95	-480.75	-782%	257051.65	69.04	11.29%
242	108.5	8207005	.00727	549.91	6673.84	-488.40	-794%	66326.05	61.39	10.04%
218	596.0	45462536	.00727	554.55	36659.96	-493.04	-802%	364334.80	56.75	9.28%
228	139.0	10641709	.00727	556.58	8549.89	-495.07	-805%	84970.70	54.72	8.95%
304	123.5	9767700	.00727	574.99	7596.48	-513.48	-835%	75495.35	36.31	5.94%
269	188.0	15884436	.00727	614.25	11563.88	-552.74	-899%	114924.40	-2.95	-.48%
374	490.0	41981130	.00727	622.86	30139.90	-561.35	-913%	299537.00	-11.56	-1.89%
299	208.5	18069184	.00727	630.04	12824.83	-568.53	-924%	127456.05	-18.74	-3.07%
494	419.0	3e456565	.00727	632.59	25772.69	-571.08	-928%	256134.70	-21.29	-3.46%
476	122.0	10639601	.00727	634.02	7504.22	-572.51	-931%	74578.60	-22.72	-3.72%
468	119.0	10396531	.00727	635.27	7319.69	-573.76	-933%	72744.70	-23.97	-3.92%
474	146.0	12794336	.00727	637.09	8980.46	-575.58	-936%	89249.80	-25.79	-4.22%
401	173.0	15502771	.00727	651.47	10641.23	-589.96	-959%	105754.90	-40.17	-6.57%
200	336.7	30626428	.00727	661.28	20710.42	-599.77	-975%	205824.71	-49.98	-8.18%
351	282.0	2e1e8374	.00727	674.62	17345.82	-613.11	-997%	172386.60	-63.32	-10.36%
328	475.5	44532540	.00727	680.87	29248.00	-619.36	-1007%	290673.15	-69.57	-11.38%
275	108.5	10255e02	.00727	687.17	6673.84	-625.66	-1017%	66326.05	-75.87	-12.41%
214	1500.1	14916719?	.00727	722.92	92271.15	-661.41	-1075%	1596556.43	341.38	32.36.
399	170.5	18988252	.00727	809.65	10487.45	-748.14	-1216%	104226.e5	-198.35	-32.-5.
332	307.0	34561228	.00727	818.44	18883.57	-756.93	-1231%	187669.10	-207.14	-33.89.
424	118.0	13204876	.00727	850.52	7258.16	-789.01	-1283%	72133.40	-239.22	-39.13%
301	91.0	10940583	.00727	874.04	5597.41	-812.53	-1321%	55628.30	-262.74	-42.96%
220	237.7	28635649	.00727	876.43	14620.93	-814.92	-1325%	145306.01	-265.13	-43.37.
362	780.3	101714.00	.00727	947.66	47996.25	-886.15	-1441%	47e997.39	-336.36	-55.02%
452	493.6	65907558	.00727	970.73	30361.34	-909.22	-1478%	301737.e8	-359.43	-58.8%.
226	401.5	56155719	.00727	1053.03	24676.26	-991.52	-1612.	245436.95	-441.73	-72.2d.
216	234.5	44148764	.00727	1261.15	15e54.30	-1197.64	-1950%	155575.85	-649.85	-10e.3.%
363	e05.5	110847385	.00727	1330.90	37244.31	-1269.39	-2064%	370142.15	-719.60	-117.7%.
210	897.5	172138611	.00727	1394.37	55205.22	-1332.36	-21e7%	548641.75	-783.07	-128.15%
507	382.0	73310e81	.00727	1395.21	23496.82	-1333.70	-2168%	233516.e0	-783.91	-128.24%
215	685.0	138878950	.00727	1473.94	42134.35	-1412.43	-2296%	418740.50	-862.64	-141.12%
321	1009.1	224298706	.00727	1615.95	62069.74	-1554.44	-2527%	1073985.13	-551.e5	-51.85%
217	216.0	57832171	.00727	1946.48	13286.16	-1884.97	-3064%	132040.80	-1335.18	-218.42.
209	145.3	61573700	.00727	3080.80	8937.40	-3019.29	-4909%	88821.89	-2469.50	-404.95%
244	765.6	493247327	.00727	4683.79	47092.06	-4622.28	-7515%	468011.25	-4072.49	-666.29%
	399755.2	11255101979	.00727 Mn	513.00 Mn	24588939.28	-251.49 Mn	-409% Mn	3809987a7.19	419.40 Mn	82.05%

APPENDIX 3 C

FULL STATE FUNDING MODEL
WITH RECAPTURE

BY

AID RATIO
TO FUND THE
NEED MODEL

APPENDIX 3C: FULL STATE FUNDING DATA WITH RECAPTURE PROVISIONS FOR EXCESS WEALTH

Arrayed by percent aid based on funding estimated need from high to low

USD	FTE	AV 1987	APM Mean Levy	Revenue Per FTE @ APM	Required Revenue to Fund APM	GPP Aid To USDs w/ APM	Aid or Cost/ e Capture	Required Revenue to Fund R/U Est. Need	GPP aid to District	Percent Aid at Est Need
263	1803.0	16225664	.00727	65.42	110902.53	-3.91	-6%	1916932.90	998.86	93.65%
475	6557.7	61729817	.00727	68.43	403364.13	-6.92	-11%	6979360.11	995.87	93.57%
469	1461.5	15202944	.00727	75.62	89896.86	-14.11	-23%	1555474.45	988.68	92.89%
230	1212.5	12795266	.00727	76.72	74580.88	-15.21	-25%	1290468.75	987.58	92.79%
394	1233.0	13343104	.00727	78.67	75841.83	-17.16	-28%	1312281.90	985.63	92.61%
434	1215.2	14450326	.00727	86.45	74746.55	-24.94	-41%	1293337.36	977.85	91.88%
499	704.5	4835130	.00727	49.90	43333.79	11.61	19%	430660.85	501.46	9 .84%
232	1651.8	20937425	.00727	92.15	101602.22	-30.64	-50%	1758010.74	972.15	91.34%
458	1130.6	14656197	.00727	92.60	70773.41	-31.09	-51%	1224583.58	971.70	91.30%
262	1882.0	24968380	.00727	96.45	115761.82	-34.94	-57%	2003012.60	967.85	90.94%
261	3117.8	41372600	.00727	96.47	191775.88	-34.96	-57%	3318274.54	967.85	90.94%
266	1740.1	23585193	.00727	98.54	107033.55	-37.03	-60%	1851988.43	965.76	90.74%
202	3836.1	53148939	.00727	100.73	235958.51	-39.22	-64%	4082761.23	963.57	90.54%
464	1251.0	17660023	.00727	102.74	76949.01	-41.23	-67%	1331439.30	961.56	90.35%
367	1096.0	15712899	.00727	104.23	67414.96	-42.72	-69%	1166472.80	960.07	90.21%
402	1813.5	26096927	.00727	104.62	111548.38	-43.11	-70%	1930108.05	959.68	90.17%
453	4260.0	62116557	.00727	106.01	262032.60	-44.50	-72%	4533918.00	958.27	90.04%
500	22131.4	326875449	.00727	107.38	1361302.41	-45.87	-75%	23554449.02	956.92	89.91%
503	1957.5	29621570	.00727	110.01	120405.82	-48.50	-79%	2083367.25	954.29	89.66%
204	2073.0	31441142	.00727	110.26	127510.23	-48.75	-79%	2206293.90	954.04	89.64%
353	1584.0	28665817	.00727	110.62	115884.84	-49.11	-80%	2005141.20	953.68	89.61%
250	2909.0	44687539	.00727	111.68	178932.59	-50.17	-82%	3096048.70	952.62	89.51%
248	1039.0	16466831	.00727	115.22	63908.69	-53.71	-87%	1105807.70	949.08	89.17%
290	2135.5	34353026	.00727	116.95	131354.60	-55.44	-90%	2272812.65	947.35	89.01%
320	1176.1	19083197	.00727	117.96	72341.91	-56.45	-92%	1251723.23	946.34	88.92%
207	1383.5	22491285	.00727	118.19	85099.08	-56.68	-92%	1472459.05	946.11	88.90%
491	783.2	7467929	.00727	69.32	48174.63	-7.81	-13%	478770.16	541.93	88.66%
506	1605.1	26801962	.00727	121.59	98729.70	-59.88	-97%	1708307.93	942.91	88.53%
257	1746.0	29248558	.00727	121.79	107396.46	-60.28	-98%	1856267.80	942.51	88.50%
450	3226.5	54215264	.00727	122.16	198462.01	-60.65	-99%	3433963.95	942.14	88.47%
385	1564.0	26682188	.00727	124.03	96201.64	-62.52	-102%	1664565.20	940.27	88.30%
234	2046.5	35288463	.00727	125.36	125880.21	-63.85	-104%	2178089.95	938.94	88.22%
373	3035.7	52972852	.00727	126.86	186725.91	-65.35	-106%	3230895.51	937.44	88.08%
203	964.0	9785527	.00727	73.80	59295.64	-12.29	-20%	589293.20	537.50	87.93%
233	12139.6	216122462	.00727	129.43	746706.80	-67.92	-110%	12920176.28	934.87	87.84%
445	2765.6	50707784	.00727	133.30	170112.06	-71.79	-117%	2943428.08	931.00	87.48%
265	1854.7	34073587	.00727	133.56	114082.60	-72.05	-117%	1973957.21	930.74	87.45%
435	1386.5	25682961	.00727	134.67	85283.61	-73.16	-119%	1475651.95	929.63	87.35%
337	708.1	8203445	.00727	77.64	47245.83	-16.13	-26%	467539.53	533.66	87.30%
253	4460.5	82745104	.00727	135.19	274365.35	-73.68	-120%	4747310.15	929.11	87.33%
406	480.9	5260115	.00727	79.52	29580.16	-18.01	-29%	293974.17	531.78	86.99%
231	1656.2	31001966	.00727	138.72	101872.86	-77.21	-126%	1762693.60	925.58	86.97%
409	1677.1	32278259	.00727	139.92	103158.42	-78.41	-127%	1784937.53	924.38	86.85%
470	2767.4	57472165	.00727	140.80	182524.77	-79.29	-129%	3158203.82	923.50	86.77%
416	1024.0	19888813	.00727	141.20	62986.24	-79.69	-130%	1089843.20	923.10	86.73%

305	6675.8	130025743	.00727	141.60	410628.46	-80.09	-130%	7105053.94	922.70	86.70%
366	1442.6	28356915	.00727	142.91	88734.33	-81.40	-132%	1535359.18	921.39	86.57%
446	2343.8	46610250	.00727	144.58	144167.14	-83.07	-135%	2494506.34	919.72	86.42%
413	1945.0	38690813	.00727	144.77	119513.93	-83.26	-135%	2067934.90	919.53	86.40%
437	3319.6	66379379	.00727	145.37	204188.60	-83.86	-136%	3533059.28	918.93	86.34%
101	1104.5	22376356	.00727	147.28	67937.79	-85.77	-139%	1175519.35	917.02	86.16%
490	2017.0	41954725	.00727	151.22	124065.67	-89.71	-146%	2146093.10	913.08	85.79%
357	674.0	8068652	.00727	87.03	41457.74	-25.52	-41%	412016.20	524.27	85.76%
313	2145.5	45166262	.00727	153.05	131969.70	-91.54	-149%	2283455.65	911.25	85.62%
383	5846.6	123846961	.00727	153.95	359747.39	-92.44	-150%	6224004.98	910.35	85.54%
338	460.9	5609540	.00727	88.48	28349.96	-26.97	-44%	281748.17	522.82	85.53%
429	382.5	4662137	.00727	88.61	23527.58	-27.10	-44%	233822.25	522.69	85.50%
508	859.0	10519006	.00727	89.03	52837.09	-27.52	-45%	525106.70	522.27	85.44%
246	587.5	7245186	.00727	89.66	36137.12	-28.15	-46%	359138.75	521.64	85.33%
379	1561.6	33961007	.00727	158.10	96054.02	-96.59	-157%	1662010.28	906.20	85.14%
495	1231.5	27330226	.00727	161.34	75749.57	-99.83	-162%	1310685.45	902.96	84.84%
340	715.5	9143616	.00727	92.91	44010.40	-31.40	-51%	437385.15	518.37	84.80%
443	4120.1	91821236	.00727	162.02	253427.35	-100.51	-163%	4385022.43	902.28	84.78%
465	2273.1	50910359	.00727	162.83	139818.38	-101.32	-165%	2419260.33	901.47	84.70%
309	1472.5	33118199	.00727	163.51	90573.47	-102.00	-166%	1567181.75	900.79	84.64%
308	4897.3	111820437	.00727	166.00	301232.92	-104.49	-170%	5212196.39	898.30	84.40%
501	14161.7	325760905	.00727	167.00	872316.37	-105.49	-171%	15093583.31	897.30	84.31%
344	412.0	5458977	.00727	96.33	25342.12	-34.82	-57%	251855.60	514.97	84.24%
396	665.2	9134452	.00727	96.92	42146.65	-35.41	-58%	418862.76	514.38	84.15%
533	1354.4	31535351	.00727	169.27	83309.14	-107.76	-175%	1441487.92	895.03	84.10%
345	3374.5	78700761	.00727	169.55	207565.49	-108.04	-176%	3591480.35	894.75	84.07%
439	399.0	5411534	.00727	98.60	24542.49	-37.09	-60%	243908.70	512.70	83.87%
447	640.5	8766787	.00727	99.51	39397.15	-38.00	-62%	391537.65	511.79	83.72%
454	342.0	4709609	.00727	100.11	21036.42	-38.60	-63%	209064.60	511.19	83.62%
348	918.2	12669100	.00727	100.31	56478.48	-38.80	-63%	561295.66	510.99	83.59%
469	3266.1	80071787	.00727	178.23	200897.81	-116.72	-190%	3476110.23	886.07	83.25%
249	420.5	6072170	.00727	104.98	25864.95	-45.47	-71%	257051.65	506.32	82.53%
415	1100.1	27684377	.00727	182.95	67667.15	-121.44	-197%	1170836.43	881.55	82.8.%
355	465.5	6795238	.00727	106.13	28632.99	-44.62	-73%	284320.15	505.17	82.64%
473	1205.0	30702048	.00727	185.23	74119.55	-123.72	-201%	1282481.50	879.07	82.53%
497	7639.6	195279705	.00727	185.83	469911.80	-124.32	-202%	8130826.28	878.47	82.54%
229	6595.0	168667464	.00727	185.93	405658.45	-124.42	-202%	7019052.50	878.37	82.53%
259	43368.5	1110929480	.00727	186.23	2667596.44	-124.72	-203%	46157094.55	878.07	82.50%
372	601.0	8936539	.00727	108.10	36967.51	-46.59	-76%	367391.30	503.20	82.32%
505	312.0	4687727	.00727	109.23	19191.12	-47.72	-78%	199725.60	502.07	82.13%
480	3391.0	89826767	.00727	192.58	208580.41	-131.07	-213%	3609041.30	871.72	81.91%
428	3328.9	89728376	.00727	195.96	204760.64	-134.45	-219%	3542948.27	868.34	81.59%
336	887.5	13778108	.00727	112.86	54590.12	-51.35	-83%	542528.75	498.44	81.54%
457	5629.1	153976395	.00727	198.86	346245.94	-137.35	-225%	5991051.13	865.44	81.32%
512	29068.1	796559111	.00727	199.22	1787978.83	-137.71	-224%	30937178.83	865.08	81.28%
315	1210.5	33323302	.00727	200.13	74457.85	-138.62	-225%	1288335.15	864.17	81.20%
312	1128.5	31188521	.00727	201.82	69106.49	-140.31	-228%	1195741.05	862.48	81.04%
259	607.7	16660544	.00727	116.07	41070.23	-54.56	-88%	408163.01	495.23	81.31%
260	5206.8	144684706	.00727	202.30	320270.27	-140.79	-229%	5541597.24	862.00	81.77%
449	638.0	10438211	.00727	118.94	39243.38	-57.43	-93%	390009.40	492.36	80.54%
343	855.5	14075903	.00727	119.79	52621.81	-58.28	-95%	522967.15	491.51	80.40%
404	745.9	12327327	.00727	120.15	45880.31	-58.64	-95%	455968.67	491.15	80.35%
325	577.5	9570873	.00727	120.49	35522.03	-58.98	-96%	353025.75	490.81	80.29%
487	560.6	9331237	.00727	121.01	34482.51	-59.50	-97%	342694.78	490.29	80.20%

339	379.9	6351642	.00727	121.55	23367.65	-60.04	-98%	232232.87	489.75	80.12%
352	1232.0	36033877	.00727	212.63	75780.32	-151.12	-246%	1311217.60	651.67	80.02%
341	529.0	9867162	.00727	124.61	32538.79	-63.10	-103%	323377.70	486.69	79.62%
342	481.5	8330351	.00727	125.78	29617.06	-64.27	-104%	294340.75	485.52	79.42%
247	779.5	13523666	.00727	126.13	47947.04	-64.62	-105%	476598.35	485.17	79.37%
425	295.5	5133198	.00727	126.29	18176.20	-64.78	-105%	180639.15	485.01	79.34%
288	498.0	8713964	.00727	127.21	30631.98	-65.70	-107%	304427.40	484.09	79.19%
382	1324.0	40663959	.00727	223.28	81439.24	-161.77	-263%	1409133.20	841.02	79.02%
461	781.0	13812733	.00727	128.58	48039.31	-67.07	-109%	477425.30	482.72	78.97%
287	726.5	13130877	.00727	131.40	44687.01	-69.89	-114%	444109.45	479.90	78.50%
430	645.7	11642302	.00727	131.49	39593.99	-69.98	-114%	393493.81	479.81	78.49%
463	360.0	6517166	.00727	131.61	22143.60	-70.10	-114%	220068.00	479.69	78.47%
456	329.5	6018134	.00727	132.78	20267.54	-71.27	-116%	201423.35	478.52	78.28%
466	1102.0	35583300	.00727	234.75	67784.02	-173.24	-282%	1172858.60	829.55	77.94%
436	864.7	14945119	.00727	135.02	49497.10	-73.51	-120%	491913.11	476.25	77.91%
495	1092.6	35473062	.00727	236.03	67205.83	-174.52	-284%	1162854.18	828.27	77.82%
421	378.5	7262025	.00727	139.48	23281.53	-77.97	-127%	231377.05	471.82	77.18%
416	2288.3	77023974	.00727	244.71	140753.33	-183.20	-298%	2435437.69	819.59	77.31%
378	514.5	10000887	.00727	141.31	31646.90	-79.80	-130%	314513.85	469.99	76.88%
420	629.0	12260352	.00727	141.71	38689.79	-80.20	-130%	384507.70	469.59	76.82%
243	486.5	9627717	.00727	143.87	29924.61	-82.36	-134%	297397.45	467.43	76.46%
211	736.5	14405468	.00727	148.23	43456.81	-86.72	-141%	431883.45	463.07	75.75%
377	778.0	16125474	.00727	150.68	47854.78	-89.17	-145%	475591.40	460.62	75.35%
440	718.0	15156397	.00727	153.46	44164.18	-91.95	-149%	438913.40	457.84	74.90%
235	478.5	10184310	.00727	154.73	29432.53	-93.22	-152%	292507.05	456.57	74.69%
375	1163.0	43334984	.00727	270.89	71536.13	-209.38	-340%	1237780.90	793.41	74.35%
358	402.5	8809426	.00727	159.12	24757.77	-97.61	-159%	246048.25	452.18	73.97%
504	458.0	10224768	.00727	162.30	28171.58	-100.79	-164%	279975.40	449.00	73.45%
330	558.0	12531644	.00727	163.27	34322.58	-101.76	-165%	341105.40	448.03	73.29%
441	941.0	21871724	.00727	166.98	57880.91	-107.47	-175%	575233.30	442.32	72.36%
451	220.0	5137652	.00727	169.78	13532.20	-108.27	-176%	134486.00	441.52	72.23%
266	501.0	11701541	.00727	169.80	30816.51	-108.29	-176%	306261.30	441.50	72.22%
222	430.0	10130318	.00727	171.27	26449.30	-109.76	-178%	262859.00	440.03	71.98%
268	537.5	12703674	.00727	171.82	33061.62	-110.31	-179%	328573.75	439.48	71.89%
278	310.0	7377076	.00727	173.00	19068.10	-111.49	-181%	189503.00	438.30	71.70%
411	248.5	5930241	.00727	173.63	15272.93	-112.12	-182%	151785.79	437.67	71.60%
295	682.0	16342019	.00727	174.20	41949.82	-112.69	-183%	416906.60	437.10	71.50%
356	399.5	9711868	.00727	176.73	24573.24	-115.22	-187%	244214.35	434.57	71.13%
307	334.0	8127226	.00727	176.90	20544.34	-115.39	-188%	204174.20	434.40	71.10%
346	544.0	13271393	.00727	177.36	33461.44	-115.85	-188%	332547.20	433.94	70.99%
387	388.0	9717134	.00727	182.07	23865.88	-120.56	-196%	237164.40	429.23	70.22%
484	891.0	22403318	.00727	182.80	54805.41	-121.29	-197%	544668.30	428.50	70.13%
322	413.5	10607277	.00727	186.49	25434.38	-124.98	-203%	252772.55	424.81	69.49%
327	710.8	18246068	.00727	186.62	43721.31	-125.11	-203%	434512.04	424.68	69.47%
498	391.2	10093058	.00727	187.57	24062.71	-126.06	-205%	239140.56	423.73	69.32%
283	177.5	4628351	.00727	189.57	10918.02	-128.06	-208%	108535.75	421.73	68.99%
408	539.5	14102673	.00727	190.09	33184.64	-128.58	-209%	329796.35	421.20	68.91%
407	1252.7	56570307	.00727	333.63	75823.38	-272.12	-442%	1311962.61	730.67	68.65%
380	599.0	15865127	.00727	192.55	36844.49	-131.04	-213%	366168.70	418.75	68.50%
258	620.0	16609428	.00727	194.76	38136.20	-133.25	-217%	379006.00	416.54	68.14%
331	1098.7	51413011	.00727	340.20	67581.04	-278.69	-453%	1169340.41	724.10	66.04%
251	680.2	18322952	.00727	195.84	41839.10	-134.33	-218%	415806.26	415.46	67.96%
398	412.5	11411769	.00727	201.12	25372.88	-139.61	-227%	252161.25	410.18	67.10%
410	596.7	16547315	.00727	201.61	36703.02	-140.10	-228%	364762.71	409.69	67.02%

376	541.1	13009149	.00727	201.66	33283.06	-140.15	-228%	330774.43	409.64	67.01%
240	481.7	13391946	.00727	202.12	29629.37	-140.61	-225%	294463.21	409.18	66.94%
417	972.5	27121605	.00727	202.75	59818.47	-141.24	-230%	594459.25	408.55	66.83%
264	942.5	2e858120	.00727	207.17	57973.17	-145.66	-237%	576150.25	404.13	66.11%
462	469.5	11708442	.00727	207.86	25188.34	-146.35	-238%	250327.35	403.44	66.00%
364	900.0	26287915	.00727	212.35	55359.00	-150.84	-245%	550170.00	398.95	65.26%
486	251.0	7410261	.00727	214.63	15439.01	-153.12	-249%	153436.30	396.67	64.89%
433	199.5	5904453	.00727	215.16	12271.24	-153.65	-250%	121954.35	396.14	64.80%
272	547.0	16503704	.00727	216.69	33645.97	-155.18	-252%	334381.10	394.61	64.55%
400	794.5	24118570	.00727	220.69	48869.69	-159.18	-259%	485677.85	390.61	63.90%
460	742.0	22721326	.00727	222.62	45640.42	-161.11	-262%	453584.60	388.68	63.58%
481	375.8	11538558	.00727	223.22	23115.46	-161.71	-263%	229726.54	388.08	63.48%
252	482.0	14828157	.00727	223.65	29647.82	-162.14	-264%	294646.60	387.65	63.41%
309	215.5	6639020	.00727	223.97	13255.40	-162.46	-264%	131735.15	387.33	63.36%
479	257.5	6?.1564	.00727	226.19	15838.82	-164.68	-268%	157409.75	385.11	63.00%
369	268.0	8402979	.00727	227.95	16484.68	-166.44	-271%	163828.40	383.35	62.71%
329	522.4	16406838	.00727	228.33	32132.82	-166.82	-271%	319343.12	382.97	62.65%
365	967.6	30396330	.00727	228.38	59517.08	-166.87	-271%	591493.68	382.92	62.64%
412	529.0	16625938	.00727	228.49	32538.79	-166.98	-271%	323377.70	382.81	62.62%
384	248.5	7832754	.00727	229.15	15285.23	-167.64	-273%	151908.05	382.15	62.51%
389	691.5	21804853	.00727	229.24	42534.17	-167.73	-273%	422713.95	382.06	62.50%
238	208.5	6589196	.00727	229.75	.2824.83	-168.24	-274%	127456.05	381.55	62.42%
237	643.0	20389821	.00727	230.53	39550.93	-169.02	-275%	393065.90	380.77	62.29%
393	303.0	9611881	.00727	230.62	18637.53	-169.11	-275%	185223.90	380.68	62.27%
442	378.1	12033020	.00727	231.37	23256.93	-169.86	-276%	231132.53	379.93	62.15%
325	711.5	22685326	.00727	231.80	43764.36	-170.29	-277%	434989.95	379.50	62.08%
488	326.5	10422576	.00727	232.07	20083.01	-170.56	-277%	199589.45	379.23	62.04%
405	750.1	24012707	.00727	232.73	46138.65	-171.22	-278%	458536.13	378.57	61.93%
448	386.5	12565908	.00727	236.36	23773.61	-174.85	-284%	236267.45	374.94	61.33%
360	301.0	9793442	.00727	236.54	18514.51	-175.03	-285%	184001.30	374.76	61.31%
273	760.0	25426604	.00727	236.99	47977.80	-175.48	-285%	476814.00	374.31	61.23%
427	605.5	19816703	.00727	237.96	37244.31	-176.45	-287%	370142.15	373.34	61.07%
256	335.0	10912236	.00727	238.23	20482.83	-176.72	-287%	2035e2.90	373.07	61.03%
311	268.5	8673539	.00727	239.30	16207.89	-177.79	-289%	161077.35	372.00	60.85%
239	642.5	21345287	.00727	241.53	39520.17	-180.02	-293%	392760.25	369.77	60.49%
316	472.5	15989619	.00727	245.25	29063.47	-183.74	-299%	288839.25	366.05	59.88%
392	475.5	16147636	.00727	246.88	29248.00	-185.37	-301%	290673.15	364.42	59.61%
432	403.5	13792788	.00727	248.51	24819.28	-187.00	-304%	246659.55	362.79	59.35%
102	578.0	19834212	.00727	249.47	35552.78	-187.96	-306%	353331.40	361.83	59.19%
212	203.5	6991725	.00727	249.78	12517.28	-188.27	-306%	124399.55	361.52	57.14%
206	506.0	17447915	.00727	250.68	31124.06	-189.17	-308%	309317.60	360.62	58.99%
366	560.0	19598346	.00727	254.43	34445.60	-192.92	-314%	342328.00	356.87	58.38%
297	417.0	14668970	.00727	254.52	25772.69	-193.01	-314%	256134.70	356.78	58.36%
419	384.5	13469387	.00727	254.67	23650.59	-193.16	-314%	235044.85	356.63	58.34%
386	288.0	10261054	.00727	259.02	17714.88	-197.51	-321%	176054.40	352.28	57.63%
285	202.0	7198490	.00727	259.07	12425.02	-197.56	-321%	123482.60	352.23	57.62%
381	251.5	9115444	.00727	263.50	15469.76	-201.99	-328%	153741.95	347.80	56.90%
324	168.0	6117627	.00727	264.73	10333.68	-203.22	-330%	102698.40	346.57	56.69%
245	319.5	11637231	.00727	264.80	19652.44	-203.29	-330%	195310.35	346.50	56.68%
426	259.0	9465551	.00727	265.69	15931.09	-204.18	-332%	158326.70	345.61	56.54%
310	516.0	19147276	.00727	269.77	31739.16	-208.26	-339%	315430.80	341.53	55.87%
423	426.0	15939512	.00727	272.02	26203.26	-210.51	-342%	260413.80	339.28	55.50%
355	352.1	20938582	.00727	275.72	33959.67	-214.21	-348%	337498.73	335.58	54.90%
282	446.9	17021619	.00727	276.90	27488.82	-215.39	-350%	273169.97	334.40	54.70%

279	198.5	7587161	.00727	277.88	12209.73	-216.37	-352%	121343.05	333.42	54.54%
294	582.5	22948667	.00727	286.42	35829.57	-224.91	-366%	356082.25	324.68	53.13%
361	985.5	38843157	.00727	286.54	60618.10	-225.03	-366%	602436.15	324.76	53.13%
208	667.5	24312310	.00727	290.95	37367.32	-229.44	-373%	371364.75	329.35	52.41%
431	691.0	27659661	.00727	291.01	42593.41	-229.50	-373%	422408.30	329.29	52.40%
347	376.7	15186857	.00727	291.55	23293.64	-230.04	-374%	231499.31	319.75	52.31%
306	657.1	27173399	.00727	300.64	40418.22	-239.13	-389%	401585.25	310.66	50.82%
224	403.4	16741572	.00727	301.71	24813.13	-240.20	-391%	246598.42	309.59	50.64%
359	212.5	8841247	.00727	302.47	13070.88	-240.96	-392%	129901.25	308.83	50.52%
349	283.5	11989551	.00727	307.46	17438.08	-245.95	-400%	173303.55	303.84	49.70%
471	159.5	6868303	.00727	313.06	9810.84	-251.55	-409%	97502.35	298.24	48.79%
293	320.5	13817096	.00727	313.42	19713.95	-251.91	-410%	195921.65	297.88	48.73%
459	264.0	12266609	.00727	314.01	17468.84	-252.50	-410%	173609.20	297.29	48.63%
397	294.5	12642128	.00727	317.02	18114.69	-255.51	-415%	180027.65	294.28	48.14%
241	322.0	14164066	.00727	319.79	19806.22	-258.28	-420%	196838.60	291.51	47.69%
293	401.0	18080733	.00727	327.80	24665.51	-266.29	-433%	245131.30	283.50	46.38%
334	265.0	11967894	.00727	328.33	16300.15	-266.82	-434%	161994.50	282.97	46.29%
350	429.0	19710461	.00727	334.02	26387.79	-272.51	-443%	262247.70	277.28	45.36%
284	540.5	25133760	.00727	338.06	33246.15	-276.55	-450%	330407.65	273.24	44.70%
281	504.6	23635372	.00727	340.53	31037.95	-279.02	-454%	308461.98	270.77	44.29%
223	384.5	18078945	.00727	341.83	23650.59	-280.32	-456%	235044.85	269.47	44.08%
455	152.5	7198536	.00727	343.17	9380.27	-281.66	-458%	93223.25	268.15	43.86%
254	802.8	38090956	.00727	345.29	49331.02	-283.78	-461%	490262.60	266.01	43.52%
368	352.5	16940246	.00727	349.38	21682.27	-287.87	-468%	215483.25	261.92	42.85%
370	141.5	6818399	.00727	350.32	8703.66	-288.81	-470%	86498.95	260.98	42.69%
213	128.0	6173979	.00727	350.66	7873.28	-289.15	-470%	78246.40	260.64	42.64%
295	119.3	5762856	.00727	351.03	7341.22	-289.52	-471%	72956.65	260.27	42.58%
403	352.0	17145671	.00727	354.12	21651.52	-292.61	-476%	215177.60	257.18	42.07%
422	430.0	21407373	.00727	361.93	26449.30	-300.42	-488%	262859.00	249.37	40.79%
371	210.5	10680676	.00727	368.88	12947.85	-307.37	-500%	128678.65	242.42	39.66%
492	234.0	11873430	.00727	368.89	14393.34	-307.38	-500%	143044.20	242.41	39.66%
316	142.5	7260366	.00727	370.41	8765.17	-308.90	-502%	87110.25	240.89	39.41%
272	216.5	10759041	.00727	371.58	12947.85	-310.07	-504%	128678.65	239.72	39.2...
467	583.0	28907353	.00727	375.28	34630.13	-311.77	-507%	344161.90	238.02	38.94,
221	172.5	8866507	.00727	373.68	10610.48	-312.17	-508%	105449.25	237.62	38.87%
104	205.0	10645149	.00727	377.51	12609.55	-316.00	-514%	125316.50	233.79	38.24%
274	475.5	24746636	.00727	378.36	29248.00	-316.85	-515%	290673.15	232.94	38.1...
271	406.0	21274100	.00727	380.94	24973.06	-319.43	-519%	248187.80	230.36	37.68%
291	147.5	7945040	.00727	391.60	9072.73	-330.09	-537%	90166.75	219.70	35.94%
270	489.0	26603844	.00727	395.52	30078.39	-334.01	-543%	298925.70	215.78	35.30%
477	220.0	11989562	.00727	396.20	13532.20	-334.69	-544%	134486.00	215.10	35.19%
511	234.0	12919652	.00727	401.39	14393.34	-339.88	-553%	143044.20	209.91	34.34%
482	367.0	20346568	.00727	403.05	22574.17	-341.54	-555%	224347.10	208.25	34.07%
214	1500.1	149167192	.00727	722.92	92271.15	-661.41	-1075%	1596556.43	341.38	32.98%
438	353.8	20919817	.00727	429.87	21762.24	-368.36	-599%	216277.94	181.43	29.63%
326	227.5	13756829	.00727	439.61	13993.52	-378.10	-615%	139070.75	171.69	28.09%
302	204.5	12492110	.00727	444.10	12578.80	-382.59	-622%	125019.85	167.20	27.35%
483	560.0	34598913	.00727	446.57	34445.60	-385.06	-626%	342328.00	164.73	26.95%
317	73.5	4578880	.00727	452.90	4520.98	-391.39	-636%	44930.55	158.40	25.91%
225	169.0	10773754	.00727	463.46	10395.19	-401.95	-653%	103307.70	147.84	24.18%
444	366.9	25252713	.00727	475.61	25742.86	-414.10	-673%	255961.80	135.69	22.20%
314	149.5	10055999	.00727	489.01	9195.74	-427.50	-695%	91389.35	122.29	20.00%
503	322.5	21912017	.00727	493.95	19836.97	-432.44	-703%	197144.25	117.35	19.20%
260	124.0	8466891	.00727	496.41	7627.24	-434.90	-707%	75801.20	114.89	18.80%

502	189.0	13071900	.00727	502.82	11625.39	-441.31	-717%	115535.70	108.48	17.75%
255	314.0	21866431	.00727	506.27	19314.14	-444.76	-723%	191948.26	105.03	17.18%
354	222.5	15509823	.00727	506.77	13685.98	-445.26	-724%	136014.25	104.53	17.10%
227	243.5	17112382	.00727	510.91	14977.66	-449.40	-731%	148851.55	100.39	16.42%
496	152.0	10699755	.00727	511.76	9349.52	-450.25	-732%	92917.63	99.54	16.28%
103	225.5	16082626	.00727	518.50	13870.50	-456.99	-743%	137848.15	92.80	15.18%
219	203.5	14774257	.00727	527.81	12517.28	-466.30	-758%	124399.55	83.49	13.66%
375	364.0	26653509	.00727	532.34	22389.64	-470.83	-765%	222513.29	78.96	12.92%
306	420.5	31364357	.00727	542.26	25864.95	-480.75	-782%	257051.65	69.04	11.29%
242	108.5	8207005	.00727	549.91	6673.64	-488.40	-794%	66326.05	61.39	10.04%
218	596.0	45462536	.00727	554.55	36659.96	-493.04	-802%	364334.80	56.75	9.28%
228	139.0	10641709	.00727	556.58	8549.69	-495.07	-805%	84970.70	54.72	8.95%
504	123.5	9767700	.00727	574.99	7596.48	-513.48	-835%	75495.55	36.31	5.94%
269	188.0	15884436	.00727	614.25	11563.88	-552.74	-899%	114924.40	-2.95	-.48%
374	490.0	41981130	.00727	622.86	30139.90	-561.35	-913%	299537.00	-11.56	-1.89%
299	208.5	18069184	.00727	630.04	12824.83	-568.53	-924%	127456.05	-18.74	-3.07%
494	419.0	36458565	.00727	632.59	25772.69	-571.08	-928%	256154.70	-21.29	-3.48%
476	122.0	10639601	.00727	634.02	7504.22	-572.51	-931%	74578.60	-22.72	-3.72%
468	119.0	10398531	.00727	635.27	7319.69	-573.76	-933%	72744.70	-23.97	-3.92%
474	146.0	12794336	.00727	637.09	8980.46	-575.58	-936%	89249.80	-25.79	-4.22%
401	173.0	15502771	.00727	651.47	10641.23	-589.96	-959%	105754.90	-40.17	-6.57%
200	336.7	30626428	.00727	661.28	20710.42	-599.77	-975%	205824.71	-49.98	-8.18%
351	282.0	26168374	.00727	674.62	17345.82	-613.11	-997%	172386.60	-63.32	-10.36%
328	475.5	44532540	.00727	680.87	29248.00	-619.36	-1007%	290675.15	-69.57	-11.38%
275	108.5	10255602	.00727	687.17	6673.84	-625.66	-1017%	66326.05	-75.87	-12.41%
399	170.5	18988252	.00727	909.65	10487.45	-748.14	-1216%	104226.65	-198.35	-32.45%
332	307.0	34561228	.00727	818.44	18883.57	-756.93	-1231%	187669.10	-207.14	-33.88%
424	118.0	13804876	.00727	850.52	7258.18	-789.01	-1283%	72133.40	-239.22	-39.13%
301	91.0	10940580	.00727	874.04	5597.41	-812.53	-1321%	55628.30	-262.74	-42.98%
220	237.7	28655649	.00727	876.43	14620.93	-814.92	-1325%	145306.01	-265.13	-43.37%
321	1009.1	224298706	.00727	1615.95	62069.74	-1554.44	-2527%	1073985.13	-551.65	-51.63%
362	780.3	101714100	.00727	947.66	47996.25	-886.15	-1441%	476997.39	-836.36	-88.27%
452	493.6	65507958	.00727	970.73	30361.34	-909.22	-1478%	301737.62	-859.43	-88.53%
226	401.5	58155719	.00727	1053.03	24696.26	-991.52	-1612%	245436.95	-941.73	-97.26%
216	254.5	44148764	.00727	1261.15	15654.30	-1199.64	-1950%	155575.85	-849.85	-123.21%
303	605.5	110847385	.00727	1330.90	37244.31	-1269.39	-2064%	370142.15	-719.60	-117.72%
213	897.5	172138611	.00727	1394.57	55205.22	-1332.86	-2167%	548541.75	-783.07	-128.03%
507	382.0	73310681	.00727	1395.21	23496.82	-1333.70	-2168%	233516.60	-783.91	-128.24%
215	685.0	138878950	.00727	1473.94	42134.35	-1412.43	-2296%	418740.50	-862.64	-141.12%
217	216.0	57832171	.00727	1946.48	13286.16	-1884.97	-3064%	132040.80	-1335.18	-218.42%
209	145.3	61573700	.00727	3080.80	8937.40	-3019.29	-4909%	88821.89	-2469.50	-403.93%
244	765.6	493247327	.00727	4683.79	47092.06	-4622.28	-7515%	468011.28	-4072.49	-666.20%
	399755.2	11255101979	.00727 Mn	313.00 Mn	24588939.28	-251.49 Mn	-409% Mn	3809987.47.19	419.40 Mn	52.05%

APPENDIX 3 D

FULL STATE FUNDING MODEL
WITH RECAPTURE

BY

AID RATIO
TO FUND THE
URBAN AND RURAL
NEED MODEL

APPENDIX 3D: FULL STATE FUNDING DATA WITH RECAPTURE PROVISIONS FOR EXCESS WEALTH

Array by Urban percent aid based on funding the estimated need model from high to low.

USD	FTE	AV 1987	State Mean Levy	Revenue Per FTE @ Mean	Required Revenue to Fund AFM	BPP Aid to USDs w/ AFM	Aid or Cost Capture	Required Revenue to Fund R/U Est. Need	BPP aid to District @ Need	Percent Aid at Est Need
263	1803.0	16225664	.00727	65.42	110902.53	-3.91	-6%	1918932.90	998.88	93.85%
475	6557.7	61729817	.00727	68.43	403364.13	-6.92	-11%	6979360.11	995.87	93.57%
469	1461.5	15202944	.00727	75.62	89896.86	-14.11	-23%	1555474.45	988.68	92.89%
230	1212.5	12795266	.00727	76.72	74580.88	-15.21	-25%	1290463.75	987.58	92.79%
394	1265.0	13343104	.00727	78.67	75841.83	-17.16	-28%	1312251.90	985.63	92.61%
434	1215.2	14459326	.00727	86.45	74746.95	-24.94	-41%	1293337.36	977.85	91.88%
232	1651.8	20937425	.00727	92.15	101602.22	-30.64	-50%	1758019.74	972.15	91.34%
458	1150.6	14656197	.00727	92.60	70773.41	-31.09	-51%	1224583.58	971.70	91.30%
262	1882.0	24968380	.00727	96.45	115761.82	-34.94	-57%	2003012.60	967.85	90.94%
261	3117.8	41372600	.00727	96.47	191775.88	-34.96	-57%	3318274.54	967.83	90.94%
265	1740.1	23585193	.00727	98.54	107033.55	-37.03	-60%	1851988.43	965.76	90.74%
202	3836.1	53148939	.00727	100.73	235958.51	-39.22	-64%	4082761.23	963.57	90.54%
464	1251.0	17680023	.00727	102.74	76949.01	-41.23	-67%	1331439.30	961.56	90.35%
367	1096.0	15712899	.00727	104.23	67414.96	-42.72	-69%	1166472.80	960.07	90.21%
402	1813.5	26096927	.00727	104.62	111548.38	-43.11	-70%	1930108.05	959.68	90.17%
453	4260.0	62118557	.00727	106.01	262032.60	-44.50	-72%	4533918.00	958.29	90.04%
500	22131.4	326675449	.00727	107.38	1361302.41	-45.87	-75%	23554449.02	956.92	89.91%
503	1957.5	29621570	.00727	110.01	120405.82	-48.50	-79%	2083367.25	954.29	89.66%
204	2073.0	31441142	.00727	110.26	127510.23	-48.75	-79%	2206293.90	954.04	89.64%
353	1864.0	28665817	.00727	110.62	115884.84	-49.11	-80%	2005141.20	953.68	89.61%
250	2909.0	44687539	.00727	111.66	178932.59	-50.17	-82%	3096048.70	952.62	89.51%
248	1039.0	16466831	.00727	115.22	63908.89	-53.71	-87%	1105807.70	949.08	89.17%
290	2135.5	34353026	.00727	116.95	131354.60	-55.44	-90%	2272812.65	947.35	89.01%
320	1.7e.1	19088197	.00727	117.96	72341.91	-56.45	-92%	1251723.23	946.34	88.92%
267	1383.5	22491285	.00727	118.19	85099.08	-56.68	-92%	1472459.05	946.11	88.91%
506	1605.1	26801962	.00727	121.39	98729.79	-59.88	-97%	1708307.95	942.91	88.61%
257	1746.0	29248558	.00727	121.79	107396.46	-60.28	-98%	1858267.80	942.51	88.58%
450	3226.5	54215264	.00727	122.16	198462.01	-60.65	-99%	3433965.95	942.14	88.52%
385	1564.0	26682188	.00727	124.03	96201.64	-62.52	-102%	1664565.20	940.27	88.35%
234	2046.5	35288463	.00727	125.36	125880.21	-63.85	-104%	2178089.95	938.94	88.22%
373	3035.7	52972852	.00727	126.86	186725.91	-65.35	-106%	3230875.51	937.44	88.08%
233	12139.6	216122462	.00727	129.43	746706.80	-67.92	-110%	12920176.28	934.87	87.84%
445	2765.6	50707784	.00727	133.50	170112.06	-71.79	-117%	2943428.08	931.00	87.48%
265	1654.7	34073587	.00727	133.56	114082.60	-72.05	-117%	1973957.21	930.74	87.45%
435	1386.5	25682961	.00727	134.67	85283.61	-73.16	-119%	1475651.95	929.63	87.35%
253	4460.5	82945104	.00727	135.19	274365.35	-73.68	-120%	4747510.15	929.11	87.30%
231	1656.2	31601966	.00727	138.72	101872.86	-77.21	-126%	1762695.66	925.58	86.97%
409	1077.1	32272259	.00727	139.92	103158.42	-78.41	-127%	1784937.53	924.38	86.85%
470	2967.4	57472165	.00727	140.80	182524.77	-79.29	-129%	3158203.82	923.50	86.77%
416	1024.0	17868813	.00727	141.20	62986.24	-79.69	-130%	1089843.20	923.10	86.73%
305	6675.8	130025748	.00727	141.60	410628.46	-80.09	-130%	7105053.94	922.70	86.70%
365	1442.6	28356915	.00727	142.91	88724.33	-81.40	-132%	1535359.18	921.39	86.57%
446	2343.8	46010250	.00727	144.58	144167.14	-83.07	-135%	2494506.34	919.72	86.42%
413	1945.3	38690813	.00727	144.77	119513.93	-83.26	-135%	2067934.90	919.53	86.40%

437	3319.6	66379379	.00727	145.37	204188.60	-83.86	-136%	3533050.28	913.93	86.34%
401	1104.5	22376356	.00727	147.28	67937.75	-85.77	-139%	1175519.35	917.02	86.1[illegible]%
490	2017.0	41954725	.00727	151.22	124065.67	-89.71	-146%	2146693.10	913.08	85.79%
313	2145.5	45166262	.00727	153.05	131969.70	-91.54	-149%	2283455.65	9[illegible].25	85.62%
333	5848.6	123846961	.00727	153.95	359747.39	-92.44	-150%	6224664.99	910.25	85.5[illegible]%
379	1561.6	33961009	.00727	158.10	96054.92	-96.59	-157%	1662010.53	906.21	85.14%
493	1231.5	27530226	.00727	161.34	75749.57	-99.83	-162%	1310683.45	902.96	84.84%
443	4120.1	91821236	.00727	162.02	253427.35	-100.51	-163%	4385022.43	902.28	84.78%
465	2273.1	50910559	.00727	162.83	139818.38	-101.32	-165%	2419260.33	901.47	84.70%
309	1472.5	33118199	.00727	163.51	90573.47	-102.00	-166%	1567181.75	900.79	84.64%
308	4897.3	111820437	.00727	166.00	301232.92	-104.49	-170%	5212196.39	898.30	84.40%
501	14181.7	325760905	.00727	167.00	872316.37	-105.49	-171%	15095583.31	897.30	84.31%
333	1354.4	31535351	.00727	169.27	83309.14	-107.76	-175%	1441487.92	895.33	84.13%
345	3374.5	78700961	.00727	169.55	207565.49	-108.04	-176%	3591480.35	894.75	84.07%
469	32[illegible].1	80071787	.00727	178.23	200897.81	-116.72	-190%	3476110.23	886.07	83.25%
415	1100.1	27684377	.00727	182.95	67667.15	-121.44	-197%	1170836.43	881.35	82.81%
473	1205.0	30702048	.00727	185.23	74119.55	-123.72	-201%	1282481.50	879.07	82.60%
497	7639.6	195279705	.00727	185.83	469911.80	-124.32	-202%	8130826.25	878.47	82.54%
229	6595.0	168667464	.00727	185.93	405658.45	-124.42	-202%	7019058.50	878.37	82.53%
259	43368.5	1110929480	.00727	186.23	2667596.44	-124.72	-203%	46157094.55	878.07	82.50%
460	3391.0	89826767	.00727	192.58	208580.41	-131.07	-213%	3609041.30	871.72	81.9[illegible]%
428	3328.9	89728376	.00727	195.96	204760.64	-134.45	-217%	3542948.27	868.34	81.59%
457	5629.1	153976395	.00727	198.86	346245.94	-137.35	-223%	5991051.13	865.44	81.32%
512	29068.1	796559111	.00727	199.22	1787978.83	-137.71	-224%	30937178.83	865.08	81.2[illegible]%
315	1210.5	33323302	.00727	200.13	74457.85	-138.62	-225%	1288335.15	864.17	81.1[illegible]%
312	1123.5	31188521	.00727	201.82	69106.49	-140.31	-228%	1195741.05	862.48	8[illegible].0%
260	5206.8	144884706	.00727	202.30	320270.27	-140.79	-229%	5541597.24	862.01	80.97%
352	1232.0	36033877	.00727	212.63	75780.32	-151.12	-246%	1311217.60	851.67	80.02%
382	1324.0	40663939	.00727	223.28	81439.24	-161.77	-263%	1409133.20	841.02	79.02%
466	1102.0	35583300	.00727	234.75	67784.02	-173.24	-282%	1172858.60	829.55	77.94%
495	1092.6	35473062	.00727	236.03	67205.83	-174.52	-284%	1162854.18	828.27	77.82%
418	2285.3	77023974	.00727	244.71	140753.33	-183.20	-298%	2435437.69	819.59	77.01%
375	1165.0	43334984	.00727	270.89	71536.13	-209.38	-340%	1237780.90	793.41	74.55%
407	1232.7	5e570807	.00727	333.63	75823.38	-272.12	-442%	1311962.61	730.67	68.65%
331	1696.7	51413011	.00727	340.20	67581.04	-278.69	-453%	1169346.41	724.11	68.04%
214	1500.1	149167192	.00727	722.92	92271.15	-661.41	-1075%	1596556.43	341.38	32.08%
321	1009.1	224298706	.00727	1615.95	62069.74	-1554.44	-2527%	1073985.13	-551.65	-5.[illegible]%
	301606.0	6794442983	.00727 Mn	174.90 Mn	18551908.08	-113.39 Mn	-184% Mn	321001394.40	889.40 Mn	83.57%

Arrayed by Rural percent aid based on funding the estimated need model from high to low.

499	704.5	4835130	.00727	49.90	43383.79	11.61	19%	430660.85	961.42	91.84%
491	783.2	7467929	.00727	69.32	48174.63	-7.81	-13%	478779.16	941.98	89.[illegible]%
203	964.0	7765527	.00727	73.80	59295.64	-12.29	-20%	589293.20	937.50	87.93%
337	768..	6203445	.00727	77.64	47245.83	-16.13	-26%	469539.53	933.66	87.57%
406	480.9	5260115	.00727	79.52	29580.16	-18.01	-29%	293974.17	931.78	87.39%
357	674.0	80e8652	.00727	87.03	41457.74	-25.52	-41%	412016.20	924.27	86.7[illegible]%
358	460.9	5609540	.00727	88.48	28349.96	-26.97	-44%	281746.17	922.82	86.58%
429	382.5	4662137	.00727	88.61	23527.56	-27.10	-44%	233822.25	922.69	86.57%
508	859.0	10519006	.00727	89.93	52887.09	-27.52	-45%	525.3e.70	922.27	86.44%
240	567.5	7245186	.00727	89.66	3e137.12	-28.15	-46%	359138.75	921.64	86.38%

340	715.5	9143616	.00727	92.91	44010.40	-31.40	-51%	437385.15	518.39	84.80%
344	412.0	5458977	.00727	96.33	25342.12	-34.82	-57%	251855.60	514.97	84.24%
396	685.2	9134452	.00727	96.92	42146.65	-35.41	-58%	418862.75	514.38	84.15%
439	399.0	5411534	.00727	98.60	24542.49	-37.09	-60%	243968.70	512.70	83.87%
447	640.5	8766787	.00727	99.51	39397.15	-38.00	-62%	391557.65	511.79	83.72%
454	342.0	4709089	.00727	100.11	21036.42	-38.60	-63%	209064.60	511.19	83.62%
348	918.2	12669100	.00727	100.31	56478.48	-38.80	-63%	561295.60	510.99	83.59%
249	420.5	6072170	.00727	104.98	25864.95	-43.47	-71%	257051.65	506.32	82.83%
385	465.5	6795238	.00727	106.13	28632.90	-44.62	-73%	284560.15	505.17	82.64%
372	601.0	8936539	.00727	108.10	36967.51	-46.59	-76%	367391.30	503.20	82.32%
505	312.0	4667727	.00727	109.23	19191.12	-47.72	-78%	190725.60	502.07	82.13%
386	887.5	13778108	.00727	112.86	54590.12	-51.35	-83%	542528.75	498.44	81.54%
259	667.7	10660544	.00727	116.07	41070.23	-54.56	-89%	408165.01	495.23	81.01%
449	638.0	10438211	.00727	118.94	39243.38	-57.43	-93%	390009.40	492.36	80.54%
345	855.5	14055906	.00727	119.79	52621.81	-58.28	-95%	522967.15	491.51	80.40%
404	745.9	12527327	.00727	120.15	45880.31	-58.64	-95%	455968.67	491.15	80.35%
523	577.5	9570873	.00727	120.49	35522.03	-58.98	-96%	353025.75	490.81	80.29%
487	560.6	9331237	.00727	121.01	34482.51	-59.50	-97%	342654.78	490.29	80.21%
339	379.9	6331642	.00727	121.55	23367.65	-60.04	-98%	232232.87	489.75	80.12%
341	529.0	9067162	.00727	124.61	32538.79	-63.10	-103%	323377.70	486.69	79.62%
342	481.5	8330351	.00727	125.78	29617.06	-64.27	-104%	294340.95	485.52	79.42%
247	779.5	13523666	.00727	126.13	47947.04	-64.62	-105%	476508.35	485.17	79.37%
425	295.5	5133198	.00727	126.29	18176.20	-64.78	-105%	180639.15	485.01	79.34%
288	498.0	8713964	.00727	127.21	30631.98	-65.70	-107%	304427.40	484.09	79.19%
401	781.0	13812733	.00727	128.58	48039.31	-67.07	-109%	477425.30	482.72	78.97%
287	726.5	13130877	.00727	131.40	44687.01	-69.89	-114%	444109.45	479.90	78.53%
430	643.7	11642302	.00727	131.47	39593.99	-69.96	-114%	393493.81	479.81	78.49%
463	360.0	6517166	.00727	131.61	22143.60	-70.10	-114%	220068.00	479.69	78.47%
456	329.5	6018134	.00727	132.78	20267.54	-71.27	-116%	201423.85	478.52	78.28%
436	894.7	14945119	.00727	135.02	49497.10	-73.51	-120%	491913.11	476.28	77.91%
421	378.5	7262025	.00727	139.48	23281.53	-77.97	-127%	231377.05	471.82	77.18%
378	514.5	10030687	.00727	141.31	31646.90	-79.80	-130%	314513.85	469.99	76.88%
420	629.0	12260552	.00727	141.71	38689.79	-80.20	-130%	384507.70	469.59	76.82%
248	486.5	9627717	.00727	143.87	29924.61	-82.36	-134%	297397.45	467.43	76.46%
211	736.5	14495468	.00727	148.23	43456.61	-86.72	-141%	431883.45	463.07	75.75%
377	778.0	16125474	.00727	150.68	47854.78	-89.17	-145%	475571.40	460.62	75.35%
440	718.0	15156397	.00727	153.46	44164.18	-91.95	-149%	438913.40	457.84	74.87%
235	478.5	10184310	.00727	154.73	29432.53	-93.22	-152%	292507.05	456.57	74.69%
358	402.5	8809426	.00727	159.12	24757.77	-97.61	-159%	246048.25	452.18	73.97%
504	458.0	10224768	.00727	162.30	28171.58	-100.79	-164%	279975.40	449.00	73.45%
330	556.0	12531644	.00727	163.27	34322.58	-101.76	-165%	341105.40	448.03	73.29%
441	941.0	21871724	.00727	168.98	57880.91	-107.47	-175%	575233.30	442.32	72.36%
451	220.0	5137652	.00727	169.78	13532.20	-108.27	-176%	134486.00	441.52	72.23%
266	501.0	11701541	.00727	169.80	30816.51	-108.29	-176%	306261.30	441.51	72.22%
222	430.0	10130318	.00727	171.27	26449.30	-109.76	-178%	262859.00	440.03	71.98%
268	537.5	12703674	.00727	171.82	33061.62	-110.31	-179%	328573.75	439.48	71.89%
278	310.0	7377076	.00727	173.00	19068.10	-111.49	-181%	189513.00	438.30	71.70%
411	248.5	5930241	.00727	173.63	15272.93	-112.12	-182%	151785.79	437.67	71.60%
295	682.0	16342019	.00727	174.20	41949.82	-112.69	-183%	416906.60	437.10	71.51%
356	399.5	9711868	.00727	176.73	24573.24	-115.22	-187%	244214.35	434.57	71.09%
307	334.0	8127226	.00727	176.90	20544.24	-115.39	-188%	204174.20	434.40	71.06%
346	544.0	13271393	.00727	177.36	33461.44	-115.85	-188%	332547.20	433.94	70.99%
387	388.0	9717134	.00727	182.07	23865.88	-120.56	-196%	237184.40	429.23	70.22%
484	891.0	22403818	.00727	182.80	54805.41	-121.29	-197%	544668.30	428.50	70.10%

322	413.5	10607277	.00727	186.49	25434.38	-124.98	-203%	252772.55	424.51	69.45%
327	710.8	18246068	.00727	186.62	43721.31	-125.11	-203%	434512.04	424.38	69.47%
498	391.2	10093058	.00727	187.57	24062.71	-126.06	-205%	239140.56	423.43	69.32%
283	177.5	4628351	.00727	189.57	10918.02	-128.06	-208%	108505.75	421.43	69.99%
406	539.5	14102673	.00727	190.04	33184.64	-128.53	-209%	329796.35	421.26	68.91%
380	599.0	15865127	.00727	192.55	36844.49	-131.04	-213%	366162.70	418.75	68.53%
258	620.0	16609438	.00727	194.76	38136.20	-133.25	-217%	379006.00	416.54	68.14%
251	680.2	18322952	.00727	195.84	41839.10	-134.33	-218%	415805.26	415.46	67.96%
398	412.5	11411769	.00727	201.12	25372.88	-139.61	-227%	252161.25	410.18	67.10%
410	596.7	16547315	.00727	201.61	36703.02	-140.10	-228%	364762.71	409.69	67.02%
376	541.1	15009149	.00727	201.66	33283.06	-140.15	-228%	330774.43	409.64	67.01%
240	481.7	13391946	.00727	202.12	29629.37	-140.61	-229%	294463.21	409.18	66.94%
417	972.5	27121605	.00727	202.75	59818.47	-141.24	-230%	594487.25	408.55	66.83%
264	942.5	26858120	.00727	207.17	57973.17	-145.66	-237%	576150.25	404.13	66.11%
462	409.5	11708442	.00727	207.86	25188.34	-146.35	-238%	250327.35	403.44	66.00%
364	900.0	26287915	.00727	212.35	55359.00	-150.84	-245%	550170.00	398.95	65.26%
486	251.0	7410261	.00727	214.63	15439.01	-153.12	-249%	153426.30	396.67	64.89%
433	199.5	5904453	.00727	215.16	12271.24	-153.65	-250%	121954.35	396.14	64.80%
272	547.0	16503704	.00727	216.69	33645.97	-155.18	-252%	334381.10	394.61	64.55%
400	794.5	24116570	.00727	220.69	48869.69	-159.18	-259%	485677.85	390.61	63.90%
460	742.0	22721326	.00727	222.62	45640.42	-161.11	-262%	453584.60	388.68	63.58%
481	375.6	11538558	.00727	223.22	23115.46	-161.71	-263%	229726.54	388.08	63.48%
252	482.0	14828157	.00727	223.65	29647.52	-162.14	-264%	294646.60	387.65	63.41%
509	215.5	6639020	.00727	223.97	13255.40	-162.46	-264%	131735.15	387.33	63.36%
479	257.5	8011564	.00727	226.19	15838.82	-164.68	-268%	157409.75	385.11	63.01%
369	265.0	8402979	.00727	227.95	16484.68	-166.44	-271%	163828.40	383.35	62.71%
329	522.4	16406838	.00727	228.33	32132.82	-166.82	-271%	319343.12	382.97	62.65%
365	967.6	30396330	.00727	228.38	59517.08	-166.87	-271%	591493.88	382.92	62.64%
412	529.0	16625938	.00727	228.49	32538.79	-166.98	-271%	323377.70	382.81	62.62%
384	248.5	7832754	.00727	229.15	15285.23	-167.64	-273%	151908.05	382.15	62.51%
389	691.5	21804853	.00727	229.24	42534.17	-167.73	-273%	422713.95	382.06	62.50%
238	208.5	6589196	.00727	229.75	12824.83	-168.24	-274%	127456.85	381.55	62.42%
237	943.0	29589321	.00727	230.53	58550.95	-169.02	-275%	581965.90	380.77	62.29%
393	303.0	9611881	.00727	230.62	18637.53	-169.11	-275%	185223.93	380.68	62.27%
442	378.1	12338020	.00727	231.37	23256.93	-169.86	-276%	231132.53	379.93	62.15%
325	711.5	23635826	.00727	231.80	43764.36	-170.29	-277%	434939.55	379.50	62.08%
486	326.5	10422576	.00727	232.07	20083.01	-170.56	-277%	199589.45	379.23	62.04%
405	750.1	24012707	.00727	232.73	46138.65	-171.22	-278%	458536.13	378.57	61.93%
448	386.5	12565908	.00727	236.36	23773.61	-174.85	-284%	236267.45	374.94	61.33%
360	301.0	9793442	.00727	236.54	18514.51	-175.03	-285%	184001.30	374.76	61.31%
275	780.0	25426604	.00727	236.99	47977.80	-175.48	-285%	476814.00	374.31	61.23%
427	605.5	19818703	.00727	237.96	37244.31	-176.45	-287%	370142.15	373.34	61.07%
256	333.0	10912236	.00727	238.23	20462.83	-176.72	-287%	203362.90	373.07	61.03%
311	263.5	8673539	.00727	239.30	16207.69	-177.79	-289%	161077.55	372.00	60.85%
239	642.5	21345287	.00727	241.53	39520.17	-180.02	-293%	392760.25	369.77	60.47%
318	472.5	15939619	.00727	245.25	29068.47	-183.74	-299%	288839.25	366.05	59.85%
392	475.5	16147636	.00727	246.88	29248.00	-185.37	-301%	290673.75	364.42	59.58%
432	403.5	13792788	.00727	248.51	24819.28	-187.00	-304%	246659.55	362.79	59.32%
102	578.0	19834212	.00727	249.47	35552.78	-187.96	-306%	353351.40	361.83	59.17%
212	203.5	6991725	.00727	249.78	12517.28	-188.27	-306%	124399.55	361.52	59.12%
296	506.0	17447915	.00727	250.68	31124.06	-189.17	-308%	309317.80	360.62	58.97%
300	560.0	19598346	.00727	254.43	34445.60	-192.92	-314%	342328.00	356.87	58.36%
297	419.0	14668570	.00727	254.52	25772.69	-193.01	-314%	256134.70	356.78	58.34%
419	324.5	13469387	.00727	254.67	23650.59	-193.16	-314%	235044.55	356.63	58.34%

386	288.0	10261054	.00727	259.02	17714.68	-197.51	-321%	17e054.40	352.26	57.63%
285	202.0	7198490	.00727	259.07	12425.02	-197.56	-321%	123-52.e1	352.25	57.62%
381	251.5	9115444	.00727	263.50	15469.7e	-201.99	-328%	153741.75	347.80	56.95%
324	168.0	6117627	.00727	264.73	10333.68	-203.22	-330%	102698.40	346.57	56.75%
245	319.5	11637231	.00727	264.80	19652.44	-203.29	-330%	195310.35	346.50	56.74%
426	259.0	9465551	.00727	265.69	15931.09	-204.18	-332%	158326.70	345.61	56.59%
510	516.0	19147276	.00727	269.77	31739.16	-208.26	-339%	315430.80	341.53	55.92%
423	426.0	15939512	.00727	272.02	26203.26	-210.51	-342%	260413.80	339.28	55.55%
355	552.1	20938582	.00727	275.72	33959.67	-214.21	-348%	337498.73	335.58	54.95%
282	446.9	17021619	.00727	276.90	27488.82	-215.39	-350%	273189.97	334.40	54.75%
279	198.5	7587161	.00727	277.88	12209.73	-216.37	-352%	121343.05	333.42	54.59%
294	582.5	22948867	.00727	286.42	35829.57	-224.91	-366%	356082.25	324.88	53.18%
361	985.5	38843157	.00727	286.54	60618.10	-225.03	-366%	602436.15	324.76	53.16%
286	607.5	24312310	.00727	290.95	37367.32	-229.44	-373%	371364.75	320.35	52.43%
431	691.0	27659661	.00727	291.01	42503.41	-229.50	-373%	422408.20	320.29	52.42%
347	378.7	15186657	.00727	29..55	23293.84	-230.04	-374%	231499.3.	319.75	52.3.%
306	657.1	27173399	.00727	300.64	40418.22	-239.13	-389%	401683.23	310.66	50.82%
224	403.4	16741572	.00727	301.71	24813.13	-240.20	-391%	246578.42	309.59	50.64%
359	212.5	8841247	.00727	302.47	13070.88	-240.96	-392%	129901.25	308.83	50.52%
349	283.5	11989551	.00727	307.46	17438.08	-245.95	-400%	173303.55	303.84	49.70%
471	159.5	6868303	.00727	313.06	9810.84	-251.55	-409%	97502.35	298.24	48.79%
293	320.5	13817096	.00727	313.42	19713.95	-251.91	-410%	195921.65	297.88	48.73%
459	264.0	12266609	.00727	314.01	17468.84	-252.50	-410%	173609.20	297.29	48.63%
397	294.5	12842128	.00727	317.02	18114.69	-255.51	-415%	180027.85	294.28	48.14%
241	322.0	14164066	.00727	319.79	19806.22	-258.28	-420%	196838.60	291.51	47.68%
298	401.0	18080733	.00727	327.80	24665.51	-266.29	-433%	245131.30	283.50	46.38%
334	265.0	11967894	.00727	328.33	16300.15	-266.82	-434%	161994.50	282.97	46.29%
350	429.0	19710461	.00727	334.02	26357.79	-272.51	-443%	262247.70	277.28	45.36%
264	540.5	25133780	.00727	338.06	33246.15	-276.55	-450%	330407.65	273.24	44.70%
281	504.6	23635372	.00727	340.53	31037.95	-279.02	-454%	308461.98	270.77	44.29%
223	384.5	18078945	.00727	341.83	23650.39	-280.32	-456%	235044.85	269.47	44.08%
455	152.5	7198536	.00727	343.17	9380.27	-281.66	-458%	93223.25	268.13	43.86%
254	682.0	36090956	.00727	345.29	49331.02	-283.78	-462%	490252.60	266.01	43.52%
368	352.5	18640246	..3727	349.38	21682.27	-287.87	-468%	215483.25	261.92	42.85%
373	141.5	6818399	.00727	350.32	8703.ee	-288.81	-470%	86498.95	261.98	42.84%
218	128.0	6173979	.00727	350.66	7873.23	-289.15	-470%	78246.40	261.64	42.84%
295	119.5	5762256	.00727	351.03	7341.22	-289.52	-471%	72958.65	261.27	42.77%
403	352.5	17145671	.00727	354.12	21651.52	-292.61	-476%	215177.60	258.18	42.27%
422	430.0	21407373	.00727	361.93	26449.30	-300.42	-488%	262859.00	249.37	40.79%
37.	210.5	10680676	.00727	368.88	12947.85	-307.37	-500%	128678.65	242.42	39.66%
492	234.0	11873430	.00727	368.89	14393.34	-307.38	-500%	143044.20	242.41	39.66%
316	142.5	7260366	.00727	370.41	8765.17	-308.90	-502%	87110.25	240.89	39.41%
292	210.5	10759041	.00727	371.58	12947.85	-310.07	-504%	128678.65	239.72	39.21%
467	563.0	28907353	.00727	373.28	34630.13	-311.77	-507%	344161.90	238.02	38.94%
221	172.5	8865507	.00727	373.68	10610.48	-312.17	-508%	105449.25	237.62	38.87%
194	205.3	10645149	.00727	377.51	12e09.55	-316.00	-514%	125516.50	233.79	38.24%
274	475.5	24746e36	.00727	378.36	29248.00	-316.85	-515%	290673.15	232.94	38.1.%
271	40e.0	21274100	.00727	380.94	24773.06	-319.43	-519%	246187.80	230.36	37.69.
291	147.5	7945040	.00727	391.60	9072.73	-330.09	-537%	90166.75	219.70	35.94%
270	489.0	26603844	.00727	395.52	30078.39	-334.01	-543%	298925.70	215.78	35.30%
477	220.0	11782952	.00727	396.20	13532.20	-334.69	-544%	134486.00	215.10	35.19%
511	204.0	12919652	.00727	401.39	14393.34	-339.88	-553%	143044.20	209.91	34.34%
482	367.0	20346568	.00727	403.05	22574.17	-341.54	-555%	224347.10	208.25	34.07%
438	358.8	20919817	.00727	429.87	21762.24	-368.36	-599%	216277.94	181.43	29.68%

326	227.5	13756829	.00727	439.61	13993.52	-378.10	-615%	139070.75	171.69	28.69%
302	204.5	12492110	.00727	444.19	12579.80	-382.59	-622%	125010.85	167.20	27.35%
483	560.0	34398913	.00727	446.57	34445.60	-385.06	-626%	342328.00	164.73	26.95%
317	75.5	4578880	.00727	452.90	4520.98	-391.39	-636%	44930.55	158.40	25.91%
225	169.0	10773754	.00727	463.46	10395.19	-401.95	-653%	103309.79	147.84	24.18%
444	386.0	25252713	.00727	475.61	23742.86	-414.10	-673%	235961.60	135.69	22.20%
314	149.5	10055999	.00727	489.01	9195.74	-427.50	-695%	91389.35	122.29	20.00%
303	322.5	21912017	.00727	493.95	19836.97	-432.44	-703%	197144.25	117.35	19.20%
260	124.0	8466891	.00727	496.41	7627.24	-434.90	-707%	75801.20	114.89	18.80%
302	189.0	13071900	.00727	502.82	11625.39	-441.31	-717%	115585.70	108.46	17.75%
255	314.0	21866431	.00727	506.27	19314.14	-444.76	-723%	191948.20	105.03	17.18%
354	222.5	15509823	.00727	506.77	13685.98	-445.26	-724%	136014.25	104.53	17.10%
227	248.5	17112382	.00727	510.91	14977.66	-449.40	-731%	148851.55	100.39	16.42%
496	152.0	10699755	.00727	511.76	9349.52	-450.25	-732%	92917.60	99.54	16.28%
152	225.5	16082626	.00727	518.50	13879.50	-456.99	-743%	137848.15	92.80	15.18%
219	203.5	14774257	.00727	527.81	12517.28	-466.30	-758%	124389.55	83.49	13.66%
395	364.0	26053509	.00727	532.34	22389.64	-470.83	-765%	222513.20	78.96	12.92%
300	420.5	31364357	.00727	542.26	25864.95	-480.75	-782%	257051.65	69.04	11.29%
242	108.5	8207005	.00727	549.91	6673.84	-488.40	-794%	66326.05	61.39	10.04%
218	596.0	45462536	.00727	554.55	36659.96	-493.04	-802%	364334.80	56.75	9.28%
228	139.0	10641709	.00727	556.58	8549.69	-495.07	-805%	84970.70	54.72	8.95%
304	123.5	9767700	.00727	574.99	7596.48	-513.48	-835%	75495.55	36.31	5.94%
269	188.0	15884436	.00727	614.25	11563.88	-552.74	-899%	114924.40	-2.95	-.48%
374	490.0	41981130	.00727	622.86	30137.90	-561.35	-913%	299537.00	-11.56	-1.89%
299	208.5	18069184	.00727	630.04	12824.83	-568.53	-924%	127456.05	-18.74	-3.07%
494	419.0	36458565	.00727	632.59	25772.69	-571.08	-928%	256134.70	-21.29	-3.48%
475	122.0	10639601	.00727	634.92	7504.22	-572.51	-931%	74578.60	-22.72	-3.72%
468	119.0	10398531	.00727	635.27	7319.69	-573.76	-933%	72744.70	-23.97	-3.92%
474	146.0	12794336	.00727	637.09	8980.46	-575.58	-936%	89249.80	-25.79	-4.22%
401	173.0	15502771	.00727	651.47	10641.23	-589.96	-959%	105754.90	-40.17	-6.57%
239	336.7	30626428	.00727	661.28	20710.42	-599.77	-975%	205824.71	-49.98	-8.18%
351	282.5	26168374	.00727	674.62	17345.52	-613.11	-997%	172386.80	-63.32	-10.36%
323	475.5	44532540	.00727	680.87	29245.00	-619.36	-1007%	290673.15	-69.57	-11.38%
278	105.5	10255632	.00727	687.17	6673.84	-625.66	-1017%	66333.05	-75.87	-12.41%
379	170.5	18986252	.00727	809.65	10487.45	-748.14	-1216%	104226.65	-198.35	-32.45%
332	307.0	34561228	.00727	818.44	18883.57	-756.93	-1231%	187659.10	-207.14	-33.88%
424	118.0	13804876	.00727	850.52	7253.18	-789.01	-1283%	72133.40	-239.22	-39.13%
301	91.0	10940580	.00727	874.04	5597.41	-812.53	-1321%	55628.35	-262.74	-42.98%
226	237.7	28655649	.00727	876.43	14620.93	-814.92	-1325%	145306.01	-265.13	-43.37%
362	780.3	101714100	.00727	947.66	47996.25	-886.15	-1441%	476997.59	-336.36	-55.02%
452	493.6	65907958	.00727	970.73	30361.34	-909.22	-1478%	301737.68	-359.43	-58.80%
226	401.5	58155719	.00727	1053.03	24696.26	-991.52	-1612%	245436.95	-441.73	-72.24%
216	254.5	44148764	.00727	1261.15	15654.30	-1199.64	-1950%	155575.85	-649.85	-106.31%
363	605.5	117847385	.00727	1330.90	37244.31	-1269.39	-2064%	370142.15	-719.60	-117.72%
210	897.5	172138611	.00727	1394.37	55205.22	-1332.86	-2167%	548641.75	-783.07	-128.10%
507	382.0	73310681	.00727	1395.21	23496.82	-1333.70	-2168%	233516.60	-783.91	-128.24%
215	685.0	132878750	.00727	1473.94	42134.35	-1412.43	-2296%	418749.30	-862.64	-141.12%
217	216.0	57832171	.00727	1946.48	13286.16	-1884.97	-3064%	132048.80	-1335.18	-2.2.4%
269	145.3	61573700	.00727	3086.80	8937.40	-3019.29	-4909%	88821.29	-2467.50	-403.49%
244	765.3	493247327	.00727	4682.79	47092.06	-4622.28	-7515%	468011.26	-4072.49	-666.22%
	98147.1	44096558996	.00727 Mn	363.38 Mn	6037031.20	-301.87 Mn	-491% Mn	59997352.79	247.92 Mn	40.5%.

APPENDIX 4 A

PERCENTAGE EQUALIZED GRANT

BY

DISTRICT NUMBER

APPENDIX 4A

PERCENTAGE EQUALIZED GRANT DATA WITH NO RECAPTURE PROVISION BY DISTRICT NUMBER

USD	FTE	AV 1987	State Mean Levy	Revenue Under Mn Levy	Required Revenue to Fund AFM	Pct Aid @ AFM	Req. Revenue to Fund R/U Est. Need	Gpo aid to District @ Need	Percent Aid under Need Model
101	1104.5	22376356	.00727	147.28	67937.79	0.00	1175519.35	917.02	66.16%
102	578.0	19834212	.00727	249.47	35552.78	0.00	353331.40	361.83	59.19%
103	225.5	16082626	.00727	518.50	13870.50	0.00	137848.15	92.80	15.18%
104	205.0	10645147	.00727	377.51	12609.55	0.00	125316.50	283.77	38.24%
200	356.7	30626428	.00727	661.28	70710.42	0.00	205824.71	-49.98	0.00%
202	3836.1	53148939	.00727	100.73	235958.51	0.00	4082761.23	963.57	90.54%
203	964.0	9785527	.00727	73.80	59295.64	0.00	569293.20	537.50	87.33%
204	2073.0	31441142	.00727	110.26	127510.23	0.00	2206293.70	954.34	89.64%
205	682.0	16542019	.00727	174.20	41949.82	0.00	416906.60	457.16	71.58%
206	506.0	17447915	.00727	250.68	31124.06	0.00	307317.80	360.62	58.99%
208	607.5	24312310	.00727	290.95	37367.32	0.00	371364.75	320.35	52.41%
209	145.3	61573700	.00727	3060.80	8937.40	0.00	88821.89	-2469.50	0.00%
210	897.5	172138611	.00727	1394.37	55205.22	0.00	548641.75	-785.07	0.00%
211	706.5	14405468	.00727	148.23	43456.81	0.00	431883.45	463.07	75.75%
212	203.5	6991725	.00727	249.78	12517.28	0.00	124399.55	361.52	59.14%
213	128.0	6173979	.00727	350.66	7873.28	0.00	78246.40	263.64	42.64%
214	1500.1	149167192	.00727	722.92	92271.15	0.00	1596356.43	341.36	32.05%
215	685.0	138678950	.00727	1473.94	42134.35	0.00	418740.50	-862.64	0.00%
216	254.5	44148764	.00727	1261.15	15654.30	0.00	155575.85	-649.65	0.00%
217	216.0	57832171	.00727	1946.48	13286.16	0.00	132040.80	-1335.16	0.00%
218	596.0	45462536	.00727	554.55	36659.96	0.00	364334.60	56.75	9.28%
219	203.5	14774257	.00727	527.91	12517.28	0.00	124399.55	83.47	13.66%
220	237.7	28655649	.00727	876.43	14620.93	0.00	145306.91	-265.18	0.00%
221	172.5	8866597	.00727	373.68	10610.48	0.00	105447.25	237.62	38.87%
222	436.3	19130318	.00727	171.27	26849.39	0.00	266859.00	440.08	71.95%
223	984.5	18078945	.00727	341.83	23650.59	0.00	235044.85	269.47	44.08%
224	403.4	16741572	.00727	301.71	24818.13	0.00	246698.42	309.59	50.64%
225	169.0	10773754	.00727	463.46	10395.19	0.00	103309.70	147.84	24.18%
226	401.5	58155719	.00727	1053.03	24696.26	0.00	245436.95	-441.73	0.00%
227	243.5	17112382	.00727	510.91	14977.68	0.00	148851.55	100.39	16.42%
228	139.0	10641709	.00727	556.58	8549.89	0.00	84970.70	54.72	8.95%
229	6595.0	168667464	.00727	185.93	405658.45	0.00	7019058.50	878.37	82.58%
230	1212.5	12795266	.00727	76.72	74586.88	0.00	1290463.75	987.58	92.78%
231	1656.2	31601966	.00727	138.72	101872.86	0.00	1762693.66	925.58	86.97%
232	1651.8	20937425	.00727	92.15	101602.22	0.00	1758010.74	972.15	91.34%
233	12139.6	216122462	.00727	129.43	746706.80	0.00	12920176.28	934.87	87.84%
234	2046.5	35238463	.00727	125.86	125880.21	0.00	2178089.95	933.94	88.22%
235	478.5	10184310	.00727	154.73	29432.53	0.00	509207.05	456.67	74.19%
237	643.9	20389821	.00727	230.53	39550.93	0.00	684368.90	383.77	62.29%
238	208.5	6589196	.00727	229.75	12824.83	0.00	221856.05	581.55	62.42%
239	642.5	21345267	.00727	241.53	39523.17	0.00	683740.25	369.77	60.49%
240	481.7	13391946	.00727	202.12	29629.37	0.00	512663.21	469.16	76.74%
241	322.0	141640e6	.00727	319.77	19806.22	0.00	342738.63	291.51	47.69%
242	108.5	8207605	.00727	549.91	6673.84	0.00	115476.35	61.39	10.04%

243	486.5	9627717	.00727	143.87	29924.61	0.00	297397.45	467.43	7e.46%
244	765.6	493247327	.00727	4683.79	47092.06	0.00	468011.28	-4072.47	0.35%
245	319.5	11637231	.00727	264.80	19652.44	0.00	195310.35	346.59	5e.68%
246	587.5	7245186	.00727	89.66	36137.12	0.00	359138.75	521.64	85.33%
247	779.5	13523606	.00727	126.15	47947.04	0.00	476508.35	485.17	79.37%
248	1039.0	16466831	.00727	115.22	63908.89	0.00	1105807.70	949.13	89.17%
249	420.5	6072170	.00727	104.98	25864.95	0.00	257051.65	506.32	82.88%
250	2909.0	44667539	.00727	111.68	178932.59	0.00	3096048.70	952.62	89.51%
251	680.2	18322952	.00727	195.84	41839.10	0.00	415806.26	415.46	67.96%
252	462.0	14828157	.00727	223.65	29647.82	0.00	294640.60	367.65	63.41%
253	4460.5	82945104	.00727	135.19	274365.35	0.00	4747310.15	929.11	87.30%
254	802.0	38090956	.00727	345.29	49331.02	0.00	490262.60	206.01	43.52%
255	314.0	21866431	.00727	506.27	19314.14	0.00	191948.20	105.93	17.15%
256	333.0	10912236	.00727	238.23	20482.82	0.00	203562.90	378.67	61.38%
257	1746.0	29248558	.00727	121.79	107396.46	0.00	1858267.80	942.51	88.8e%
258	620.0	16609438	.00727	194.76	38136.20	0.00	379006.00	416.54	68.14%
259	43568.5	1110529480	.00727	186.23	2667596.44	0.00	46157094.55	678.07	52.58%
260	5206.8	144884706	.00727	202.30	320270.27	0.00	5541597.24	862.30	80.97%
261	3117.8	41372600	.00727	96.47	191775.88	0.00	3318274.54	967.83	90.94%
262	1862.0	24968380	.00727	96.45	115761.82	0.00	2003012.60	767.85	90.94%
263	1803.0	16225664	.00727	65.42	110902.53	0.00	1918932.90	998.85	93.85%
264	942.5	26858120	.00727	207.17	57973.17	0.00	576150.25	404.13	66.41%
265	1654.7	34073587	.00727	133.56	114082.60	0.00	1973957.21	930.74	87.45%
266	1740.1	23585193	.00727	98.54	107033.55	0.00	1851988.43	965.76	90.74%
267	1583.5	22491285	.00727	118.19	85099.08	0.00	1472459.05	946.11	88.91%
268	537.5	12703674	.00727	171.62	33061.62	0.00	328573.75	469.48	71.89%
269	188.0	15884436	.00727	614.25	11563.88	0.00	114924.40	-2.95	0.09%
270	437.0	2e603844	.00727	395.52	30078.39	0.00	298925.70	215.78	35.38%
271	40e.0	21274100	.00727	380.94	24973.06	0.00	248187.80	260.36	37.68%
272	547.0	16303704	.00727	216.69	33645.97	0.00	334381.10	394.61	e4.55%
273	780.0	2542e6e4	.00727	236.99	47977.80	0.00	476814.00	374.31	61.23%
274	475.5	24746636	.00727	378.36	29248.00	0.00	290673.15	232.94	38.11%
275	116.5	10255e02	.00727	687.17	6673.34	0.00	6632e.05	-75.57	0.1e%
276	310.5	7577676	.00727	173.00	19068.10	0.00	189503.00	438.38	71.72%
277	198.5	7587161	.00727	277.88	12209.75	0.00	121348.95	335.42	54.84%
278	124.0	94ee891	.00727	49e.41	7627.24	0.00	75801.20	114.39	18.71%
279	504.5	23635372	.00727	340.53	31037.95	0.00	308461.98	279.77	44.29%
280	446.9	17021e19	.00727	276.90	27488.82	0.00	273189.97	334.40	54.71%
281	177.5	4629331	.00727	189.57	10918.02	0.00	108585.75	421.73	68.97%
282	540.5	25133780	.00727	338.06	33246.15	0.00	330497.65	273.24	44.70%
283	202.0	7198490	.00727	259.07	12425.02	0.00	123482.60	352.25	57.62%
284	501.0	11701541	.00727	169.80	30816.51	0.00	306261.89	441.50	72.22%
285	726.5	13130877	.00727	131.40	44687.01	0.00	444109.45	479.90	78.50%
286	498.0	8713964	.00727	127.21	30631.98	0.00	304427.40	484.09	79.19%
287	667.7	10660544	.00727	116.07	41070.23	0.00	408165.01	495.23	81.01%
288	2135.5	54853026	.00727	116.95	131354.60	0.00	2272812.65	947.35	89.32%
289	147.5	7745040	.00727	391.e0	9072.73	0.00	90166.75	219.70	35.94%
290	210.5	10759941	.00727	371.58	12947.35	0 .0	128678.65	289.72	39.2e%
291	320.5	15817696	.00727	313.42	19713.95	0.00	195921.65	297.88	48.73%
292	562.5	22946667	.00727	286.42	35829.57	0.00	356082.25	324.88	53.e%
293	117.3	5762856	.00727	351.63	7341.22	0.00	72956.65	260.27	42.58%
294	419.0	14668970	.00727	254.52	25772.69	0.00	256134.70	356.78	58.3e%
295	401.0	18060733	.00727	327.80	24665.51	0.00	245131.30	225.50	46.33%
299	208.5	18069184	.00727	e30.94	12824.83	0.00	127456.05	-18.74	0.30%

300	420.5	31364357	.00727	542.26	25864.95	0.00	257051.65	65.04	11.29%
301	91.0	10940580	.00727	874.04	5597.41	0.00	55628.30	-262.74	0.00%
302	204.5	12492110	.00727	444.10	12578.80	0.00	125010.65	167.29	27.35%
303	322.5	21912017	.00727	493.95	19836.97	0.00	197144.25	117.35	15.22%
304	125.5	9767700	.00727	574.99	7596.48	0.00	75495.55	36.31	5.94%
305	6675.6	130025743	.00727	141.60	410628.46	0.00	7195053.94	522.70	36.76%
306	657.1	27178599	.00727	300.64	40418.22	0.00	401685.23	310.66	59.82%
307	334.0	8127226	.00727	176.90	20544.34	0.00	204174.20	434.40	71.06%
308	4697.3	111820437	.00727	166.00	301232.92	0.00	5212196.39	898.30	84.48%
309	1472.5	33118199	.00727	163.51	90573.47	0.00	1567181.75	706.79	84.64%
310	516.0	19147276	.00727	269.77	31739.16	0.00	315430.80	341.53	55.87%
311	263.5	8673539	.00727	239.30	16207.89	0.00	161077.55	372.00	69.85%
312	1123.5	31188521	.00727	201.82	69106.49	0.00	1195741.05	862.48	81.04%
313	2145.5	45166262	.00727	153.05	131969.70	0.00	2282455.65	911.25	85.62%
314	149.5	10055999	.00727	469.01	9195.74	0.00	91389.35	122.29	23.69%
315	1210.5	33323302	.00727	200.13	74457.85	0.00	1288335.15	664.17	81.25%
316	142.5	7260366	.00727	370.41	8765.17	0.00	87110.25	240.85	37.41%
317	73.5	4578680	.00727	452.90	4520.98	0.00	44930.55	158.40	25.91%
318	472.5	15939619	.00727	245.25	29063.47	0.00	288839.25	366.65	59.88%
320	1176.1	19083197	.00727	117.96	72341.91	0.00	1251723.23	946.54	82.93%
321	1009.1	224298706	.00727	1615.95	62069.74	0.00	1073985.13	-551.65	0.00%
322	413.5	10607277	.00727	186.49	25434.38	0.00	252772.55	424.81	69.49%
323	577.5	9570873	.00727	120.49	35522.03	0.00	353025.75	490.81	80.23%
324	108.0	6117627	.00727	264.73	10033.68	0.00	102696.40	346.57	56.65%
325	711.5	22665326	.00727	231.80	43764.36	0.00	434939.95	579.50	62.85%
326	227.5	13756825	.00727	439.61	13993.52	0.00	139070.75	171.69	22.67%
327	710.8	18246068	.00727	186.62	43721.31	0.00	434512.04	424.66	69.47%
328	475.5	44532540	.00727	680.87	29248.00	0.00	290673.15	-69.57	0.00%
329	522.4	16406838	.00727	228.33	32132.82	0.00	319343.12	382.97	62.65%
330	558.0	12531644	.00727	163.27	34322.58	0.00	341105.40	448.03	73.29%
331	1095.7	51413011	.00727	340.20	67581.04	0.00	1169346.41	724.19	66.04%
332	307.0	34561228	.00727	818.44	18883.57	0.00	187669.10	-207.14	0.00%
333	1854.4	31333351	.00727	169.27	63309.14	0.00	1441487.92	595.03	54.12%
334	265.0	11967854	.00727	328.33	16300.15	0.00	161994.50	282.97	46.24%
335	465.5	6795238	.00727	106.13	28632.90	0.00	284560.15	505.17	82.54%
336	687.5	13775105	.00727	112.86	54590.12	0.00	542528.75	496.44	81.54%
337	768.1	8203445	.00727	77.64	47245.83	0.00	469539.53	583.66	87.30%
338	460.9	5609540	.00727	88.48	28349.96	0.00	281748.17	522.82	85.53%
339	379.7	6351642	.00727	121.55	23367.65	0.00	232232.87	489.75	80.13%
340	715.5	9143616	.00727	92.91	44010.40	0.00	437385.15	518.59	84.83%
341	529.0	9067162	.00727	124.61	32538.79	0.00	323377.70	486.69	77.62%
342	481.5	8330351	.00727	125.78	29617.06	0.00	294340.95	485.52	79.42%
343	855.5	14095903	.00727	119.79	52621.81	0.00	522967.15	491.51	80.43%
344	412.0	5458977	.00727	96.33	25342.12	0.00	251855.60	514.97	84.24%
345	3374.5	78700961	.00727	169.55	7565.49	0.00	3591480.35	854.75	84.07%
346	544.0	13271393	.00727	177.36	33461.44	0.00	332547.20	433.94	70.34%
347	373.7	15186657	.00727	291.55	23293.84	0.00	231499.31	319.75	52.31%
348	918.2	12669100	.00727	100.31	56478.48	0.00	561295.66	511.99	83.59%
349	283.5	11989551	.00727	307.46	17438.08	0.00	173303.35	508.24	49.73%
350	429.0	19710461	.00727	334.02	26387.79	0.00	262247.70	277.25	45.36%
351	282.0	26166374	.00727	674.62	17345.82	0.00	172586.60	-69.82	0.00%
352	1252.0	30033877	.00727	212.63	75780.32	0.00	1511217.60	851.67	80.02%
353	1884.0	28665817	.00727	110.62	115884.84	0.00	2905141.20	953.68	87.51%
354	222.5	15509823	.00727	506.77	13685.98	0.00	136014.25	104.53	17.15%

355	552.1	20938582	.00727	275.72	33959.67	0.00	337498.73	835.58	54.90%
356	399.5	9711868	.00727	176.73	24573.24	0.00	244214.35	434.57	71.09%
357	574.0	6068652	.00727	87.03	41457.74	0.00	412016.20	524.27	85.76%
358	402.5	8807426	.00727	159.12	24757.77	0.00	246048.25	452.18	73.97%
359	212.5	8841247	.00727	302.47	13070.88	0.00	129901.25	308.83	50.52%
360	301.0	9795442	.00727	236.54	18514.51	0.00	184001.30	374.78	6..1%
361	925.5	38843157	.00727	286.54	60618.10	0.00	602456.15	324.76	53.13%
362	780.3	101714100	.00727	947.66	47996.25	0.00	476997.37	-336.36	0.00%
363	605.5	110847385	.00727	1330.90	37244.31	0.00	370142.15	-719.60	0.00%
364	900.0	26287915	.00727	212.35	55359.00	0.00	550170.00	398.95	65.26%
365	967.6	30396330	.00727	228.38	59517.08	0.00	591493.88	382.92	62.64%
366	560.0	19598346	.00727	254.43	34445.60	0.00	342328.00	356.87	58.36%
367	1096.0	15712899	.00727	104.23	67414.96	0.00	11e6472.80	960.07	90.21%
368	1442.6	28356915	.00727	142.91	88734.33	0.00	1535359.12	921.39	86.57%
369	268.0	8402979	.00727	227.95	16484.68	0.00	163826.40	328.35	62.71%
371	210.5	10680676	.00727	362.88	12947.85	0.00	128672.65	242.42	57.66%
372	601.0	8936539	.00727	108.10	36967.51	0.00	367391.30	503.20	82.32%
373	3035.7	52972852	.00727	126.86	186725.91	0.00	3230695.51	937.44	88.08%
374	490.0	41981130	.00727	622.82	30139.90	0.00	299537.00	-11.56	0.00%
375	1163.0	43334984	.00727	270.89	71536.13	0.00	1237760.90	793.41	74.55%
376	541.1	15009149	.00727	201.66	33283.06	0.00	330774.43	409.64	67.01%
377	778.0	16125474	.00727	150.68	47854.78	0.00	475591.40	468.62	75.38%
378	514.5	10000887	.00727	141.31	31646.90	0.00	314513.85	465.99	76.68%
379	1561.6	33961009	.00727	158.10	96054.02	0.00	1662010.68	966.20	85.14%
380	599.0	15865127	.00727	192.55	36844.49	0.00	366168.70	418.75	68.50%
381	251.5	9115444	.00727	263.50	15469.76	0.00	153741.95	347.80	56.95%
382	1524.0	40663759	.00727	223.26	81439.24	0.00	1407133.20	841.02	79.02%
383	5548.6	123846761	.00727	153.95	359747.39	0.00	6224664.98	918.35	85.54%
384	248.5	7832754	.00727	229.15	15285.23	0.00	151908.05	382.15	62.51%
385	1564.0	26682188	.00727	124.03	96201.64	0.00	1664365.20	940.27	86.35%
386	288.0	10261054	.00727	259.02	17714.88	0.00	176054.40	352.28	57.63%
387	386.0	9717134	.00727	182.07	23865.88	0.00	237184.40	429.23	70.22%
388	352.5	16940240	.00727	549.36	21682.27	0.00	215483.25	221.92	42.85%
389	691.5	21804853	.00727	229.24	42534.17	0.00	422713.95	322.06	53.83%
390	141.5	6318359	.00727	350.32	8703.66	0.00	86495.95	250.98	42.69%
392	475.5	16147636	.00727	246.88	29248.00	0.00	290673.15	364.42	59.5.%
393	303.0	9611881	.00727	230.62	18637.53	0.00	185223.90	380.68	62.27%
394	1233.0	13343104	.00727	76.67	75841.83	0.00	1212231.90	985.63	92.51%
395	364.0	26653509	.00727	532.34	22389.64	0.00	222513.20	78.96	12.92%
396	685.2	9154452	.00727	96.92	42146.65	0.00	418862.76	514.35	84.15%
397	294.5	12842128	.00727	317.02	18114.69	0.00	180027.85	294.28	48.14%
398	412.5	11411769	.00727	201.12	25372.88	0.00	252161.25	410.18	67..3%
399	170.5	18988252	.00727	809.65	10487.45	0.00	104226.65	-193.35	0.00%
400	794.5	24118570	.00727	220.69	48869.69	0.00	485677.85	590.61	65.93%
401	173.0	15502771	.00727	651.47	10641.23	0.00	105754.90	-40.17	0.00%
402	1813.5	26096927	.00727	104.62	111548.38	0.00	1950108.05	959.68	90.17%
403	352.0	17145671	.00727	354.12	21651.52	0.00	215177.60	257.18	42.67%
404	745.9	12527327	.00727	120.15	45880.31	0.00	455965.67	491.15	50.35%
405	755.1	24012707	.00727	232.73	46438.65	0.00	458536.15	378.57	51.1..%
406	485.9	5260115	.00727	79.52	29889.16	0.00	293974.17	531.78	65.5..%
407	1232.7	36570307	.00727	333.65	75823.38	0.00	1511962.61	730.67	68.65%
408	539.5	14102673	.00727	190.04	33184.64	0.00	329796.35	421.26	65.9..%
409	1677.1	32278259	.00727	139.92	103158.42	0.00	1764937.53	924.38	86.85%
410	596.7	16547315	.00727	201.61	36703.02	0.00	364762.71	409.69	67.32%

411	248.3	5930241	.00727	173.63	15272.93	0.00	151785.79	437.67	71.63%
412	529.6	16625938	.00727	226.49	32538.79	0.00	323377.70	382.81	52.62%
413	1943.0	38690813	.00727	144.77	119513.93	0.00	2067934.90	919.53	56.40%
415	1100.1	27684377	.00727	182.95	67667.15	0.00	1170836.43	581.35	52.81%
416	1024.0	19888813	.00727	141.20	62986.24	0.00	1089843.20	923.10	56.73%
417	972.5	27121605	.00727	202.75	59818.47	0.00	594489.25	488.55	44.83%
418	2268.3	77023974	.00727	244.71	140753.33	0.00	2435437.69	819.57	77.31%
419	364.5	13469387	.00727	254.67	23650.59	0.00	235044.85	356.63	55.34%
420	629.0	12260552	.00727	141.71	38689.79	0.00	384507.70	469.59	76.62%
421	378.5	7262025	.00727	139.48	23281.53	0.00	231377.05	471.82	77.16%
422	430.0	21407373	.00727	361.93	26449.30	0.00	262859.00	249.37	40.79%
423	426.0	15939512	.00727	272.02	26203.26	0.00	260413.80	339.28	55.50%
424	118.0	13804876	.00727	850.52	7258.18	0.00	72153.40	-239.22	0.00%
425	295.5	5133198	.00727	126.29	18176.20	0.00	180639.15	465.01	77.34%
426	259.0	9465551	.00727	265.69	15931.09	0.00	158326.75	345.61	56.54%
427	605.5	19818703	.00727	237.96	37244.31	0.00	370142.15	373.34	61.07%
428	3328.9	89728376	.00727	195.96	204760.64	0.00	3542948.27	668.34	81.39%
429	382.5	4662137	.00727	88.61	23527.58	0.00	233822.25	522.69	85.50%
430	643.7	11642302	.00727	131.49	39593.99	0.00	393493.81	479.81	78.49%
431	691.0	27659661	.00727	291.01	42503.41	0.00	422408.30	320.29	52.40%
432	405.5	13792788	.00727	248.51	24819.28	0.00	246659.55	362.79	59.35%
433	199.5	5904453	.00727	215.16	12271.24	0.00	121954.35	356.14	64.80%
434	1215.2	14450326	.00727	86.45	74746.95	0.00	1295337.36	977.65	91.85%
435	1386.5	25682961	.00727	134.67	85283.61	0.00	1475651.95	929.63	87.35%
436	804.7	14945119	.00727	135.02	49497.10	0.00	491913.11	476.25	77.91%
437	3319.6	66379379	.00727	145.37	204188.60	0.00	3533050.28	918.93	86.34%
438	353.8	20919817	.00727	429.87	21762.24	0.00	216277.94	181.43	29.63%
439	399.0	5411534	.00727	98.60	24542.49	0.00	243908.70	512.70	83.87%
440	718.0	15156397	.00727	153.46	44164.18	0.00	438913.40	457.84	74.90%
441	941.0	21871724	.00727	168.98	57880.91	0.00	575283.30	442.52	72.36%
442	378.1	12033020	.00727	231.37	23256.93	0.00	231132.53	379.93	62.15%
443	4129.1	91821236	.00727	162.02	253427.35	0.00	4385022.43	902.26	84.78%
444	386.0	25252713	.00727	475.61	23742.86	0.00	235961.50	135.69	22.22%
445	2765.6	50707764	.00727	133.50	170112.06	0.00	2748426.08	95.03	87.48%
446	2343.8	46610250	.00727	144.58	144167.14	0.00	2494506.34	919.72	86.42%
447	645.5	8766787	.00727	99.51	39697.15	0.00	391337.65	511.79	83.72%
448	386.5	12565908	.00727	236.36	23773.61	0.00	236267.45	374.94	61.35%
449	638.3	10456211	.00727	113.94	39243.38	0.00	390009.40	492.36	63.54%
450	5226.5	54215264	.00727	122.16	198462.01	0.00	3433963.95	942.14	86.52%
451	220.0	5137652	.00727	169.78	13532.20	0.00	134486.00	441.52	72.23%
452	493.6	65907958	.00727	970.73	30361.34	0.00	301757.68	-359.43	3.69%
453	4260.0	62118557	.00727	106.01	262032.60	0.00	4533918.00	958.29	90.04%
454	342.0	4709609	.00727	100.11	21036.42	0.00	209064.60	511.19	65.62%
455	152.5	7198536	.00727	348.17	9380.27	0.00	93223.25	268.15	43.96%
456	329.5	6018134	.00727	132.78	20267.54	0.00	201423.85	478.52	78.25%
457	5629.1	153976395	.00727	198.96	346245.94	0.00	5991051.13	865.44	81.32%
458	1150.6	14656197	.00727	92.60	70773.41	0.00	1224583.58	971.70	91.22%
459	284.9	12266609	.00727	314.01	17463.84	0.00	173609.29	297.25	48.69%
460	742.9	22721325	.00727	222.62	45640.42	0.00	453834.60	338.63	53.54%
461	781.0	38812733	.00727	139.55	48037.31	0.00	477425.30	462.72	75.97%
462	499.5	11708442	.00727	207.56	25188.34	0.00	250327.35	408.44	66.03%
463	360.0	6517166	.00727	131.61	22143.60	0.00	220068.00	479.69	73.47%
464	1251.0	17680023	.00727	102.74	76949.01	0.00	1331439.30	961.56	90.35%
465	2273.1	50910359	.00727	162.83	139818.38	0.00	2419260.33	901.47	84.76%

466	1102.0	35583300	.00727	234.75	67784.02	0.00	1172658.60	829.35	77.94%
467	563.0	26907353	.00727	373.28	34630.13	0.00	544161.90	238.02	58.94%
468	119.0	10398551	.00727	635.27	7319.69	0.00	72744.79	-23.97	0.00%
469	1461.5	15202944	.00727	75.62	89890.86	0.00	1555474.45	958.66	92.69%
470	2967.4	574721c3	.00727	140.80	182524.77	0.00	3158203.82	923.50	86.77%
471	159.5	6868803	.00727	313.06	9810.84	0.00	97502.35	278.24	43.79%
473	1205.0	30702048	.00727	185.23	74119.55	0.00	1282481.50	877.07	82.60%
474	146.0	12794336	.00727	637.09	8980.46	0.00	89249.80	-25.79	0.00%
475	6557.7	61729817	.00727	68.43	403364.13	0.00	6979360.11	995.87	93.57%
476	122.0	10639601	.00727	634.02	7504.22	0.00	74578.60	-22.72	0.00%
477	220.0	11989562	.00727	396.20	13532.20	0.00	134486.00	215.16	35.15%
479	257.5	8011564	.00727	226.19	15838.82	0.00	157409.75	385.11	63.00%
480	3391.0	89826767	.00727	192.58	208580.41	0.00	3609041.50	671.72	81.91%
481	375.8	11538558	.00727	223.22	23115.46	0.00	229726.54	388.08	63.48%
482	367.0	20346568	.00727	403.05	22574.17	0.00	224347.10	208.25	54.07%
483	560.0	34398913	.00727	446.57	34445.60	0.00	342328.00	164.75	26.95%
484	891.0	22403318	.00727	182.80	54805.41	0.00	544668.30	428.50	70.16%
486	251.0	7410261	.00727	214.63	15439.01	0.00	153436.30	396.67	64.69%
487	569.6	9331237	.00727	121.01	34482.51	0.00	342694.78	490.29	80.30%
488	326.5	10422576	.00727	232.07	20083.01	0.00	199589.45	379.23	62.04%
489	3266.1	80071787	.00727	178.23	200897.81	0.00	3476110.23	886.07	83.25%
490	2017.0	41954725	.00727	151.22	124065.67	0.00	2146693.10	913.06	85.75%
491	788.2	7467929	.00727	69.32	48174.63	0.00	478770.16	541.93	83.26%
492	234.0	11873430	.00727	368.89	14393.34	0.00	143044.20	242.41	39.60%
493	1231.5	27330226	.00727	161.34	75749.57	0.00	1310685.45	902.56	84.34%
494	419.0	36458565	.00727	632.59	25772.69	0.00	256134.70	-21.27	0.00%
495	1092.6	35473062	.00727	236.03	67205.83	0.00	1162854.18	828.27	77.32%
496	152.0	10699755	.00727	511.76	9349.52	0.00	92917.60	99.54	16.28%
497	7659.6	195279705	.00727	185.83	469911.80	0.00	8130826.28	876.47	82.54%
498	391.2	10093058	.00727	187.57	24062.71	0.00	239140.56	423.73	69.32%
499	704.5	4835130	.00727	49.90	43333.79	.00	430660.95	561.40	91.84%
500	22131.4	326875449	.00727	107.38	1361302.41	0.00	23554447.02	956.92	89.91%
501	14191.7	327760995	.00727	167.01	872316.37	0.00	15093883.31	847.30	84.31%
502	189.6	13071900	.00727	502.32	11625.39	0.00	115535.70	108.46	17.73%
503	1957.5	29621570	.00727	110.01	120405.82	0.00	2083867.25	954.29	89.66%
504	458.0	10224768	.00727	162.30	28171.58	0.00	279975.40	449.00	73.45%
505	312.0	4687727	.00727	109.23	19191.12	0.00	190725.50	502.07	82.13%
506	1605.1	26801962	.00727	121.39	98729.70	0.00	1708307.93	942.91	88.59%
507	382.0	73319681	.00727	1395.21	23496.82	0.00	233516.60	-783.91	0.00%
508	859.0	10519006	.00727	89.03	52837.09	0.00	525106.70	522.27	85.44%
509	215.5	6659020	.00727	223.97	13255.40	0.00	131735.15	387.33	63.36%
511	234.0	12919652	.00727	401.39	14393.34	0.00	143044.20	209.91	34.34%
512	29068.1	796359111	.00727	199.22	1787978.63	0.00	30937178.83	865.98	81.28%
	399755.2	11255101979	.00727 Mn	313.00 Mn	24588939.29	0 Mn	380998747.15	419.40 Mn	68.01% Mn

APPENDIX 4 B

PERCENTAGE EQUALIZED GRANT

BY

PERCENT AID REQUIRED

TO FUND

ESTIMATED NEED MODEL

APPENDIX 4B:

PERCENTAGE EQUALIZED GRANT DATA BY PERCENT AID REQUIRED TO FUND THE ESTIMATED NEED MODEL HIGH TO LO.

USD	FTE	AV 1987	State Mean Levy	Revenue Under Mn Levy	Required Revenue to Fund AFM	Pct Aid @ AFM	Req. Revenue to Fund R/U Est. Need	GPP aid to District @ Need	Percent Aid under Need Model
263	1803.0	16225664	.00727	65.42	110902.53	0.00	1918932.90	998.88	93.85%
475	6557.7	61729817	.00727	68.43	403364.13	0.00	6979360.11	995.87	93.57%
469	1461.5	15202944	.00727	75.62	89896.86	0.00	1555474.45	988.68	92.89%
239	1212.5	12795266	.00727	76.72	74580.88	0.00	1290463.75	987.58	92.79%
394	1233.0	13343104	.00727	78.67	75841.83	0.00	1312281.90	985.63	92.61%
484	1215.2	14450326	.00727	86.45	74746.95	0.00	1293537.36	977.85	91.85%
499	704.5	4835130	.00727	49.90	43333.79	.00	430660.85	961.40	91.84%
232	1651.8	20937425	.00727	92.15	101602.22	0.00	1756010.74	972.15	91.34%
458	1150.6	14656197	.00727	92.60	70773.41	0.00	1224583.58	971.70	91.30%
262	1882.0	24968380	.00727	96.45	115761.82	0.00	2003012.60	967.85	90.94%
261	3117.8	41372600	.00727	96.47	191775.88	0.00	3318274.54	967.83	90.94%
266	1740.1	23585193	.00727	98.54	107033.55	0.00	1851988.43	965.76	90.74%
292	3836.1	53146939	.00727	100.73	235958.51	0.00	4082761.23	963.57	90.54%
464	1251.0	17680023	.00727	102.74	76949.01	0.00	1331439.30	961.56	90.35%
367	1096.0	15712859	.00727	104.25	67414.96	0.00	1166472.80	960.07	90.21%
402	1813.5	26096927	.00727	104.62	111548.38	0.00	1930108.05	959.68	90.17%
453	4260.0	62118557	.00727	106.01	262032.60	0.00	4533918.00	958.29	90.04%
500	22181.4	326875449	.00727	107.38	1361302.41	0.00	23554449.02	956.92	89.91%
503	1957.5	29621570	.00727	110.01	120405.82	0.00	2083307.25	954.29	89.66%
204	2073.0	31441142	.00727	110.26	127510.23	0.00	2206293.90	954.04	89.64%
353	1864.0	28665817	.00727	110.62	115884.84	0.00	2005141.20	953.68	89.61%
250	2909.0	44687539	.00727	111.68	178932.59	0.00	3096046.70	952.62	89.51%
248	1039.0	16466681	.00727	115.22	63908.59	0.00	1105807.70	949.06	89.17%
291	2.38.5	34353026	.00727	116.95	131354.60	0.00	2272812.65	947.35	89.01%
323	1176.1	17063197	.00727	117.96	72341.91	0.00	1251725.23	946.34	88.92%
267	1333.5	22491265	.00727	118.19	85099.08	0.00	1472459.05	946.1.	88.90%
491	783.2	7467929	.00727	69.32	48174.63	0.00	478770.16	941.98	88.66%
306	1605.1	26801962	.00727	121.39	98729.70	0.20	1706307.93	942.91	88.59%
257	1746.0	29248558	.00727	121.79	107396.46	0.00	1858267.80	942.51	88.56%
450	3226.5	54215264	.00727	122.16	198462.01	0.00	3433963.95	942.14	88.52%
385	1564.0	26682168	.00727	124.03	96201.64	0.00	1664565.20	940.27	88.35%
234	2046.5	35288463	.00727	125.36	125880.21	0.00	2178089.95	938.94	88.22%
373	3035.7	52972652	.00727	126.86	186725.91	0.00	3230895.51	937.44	88.08%
203	964.0	9785527	.00727	73.80	59295.64	0.00	589293.20	937.80	87.98%
283	12139.6	216122462	.00727	129.43	746706.80	0.00	12920176.25	934.67	87.84%
445	2765.6	50707784	.00727	133.30	170112.06	0.00	2943428.98	931.00	87.48%
265	1654.7	34073587	.00727	133.56	114082.60	0.00	1973957.21	930.74	87.45%
435	1336.5	25082961	.00727	134.67	85253.61	0.00	1475651.95	929.63	87.35%
537	766.1	8203445	.00727	77.64	47245.83	0.00	469537.53	833.66	87.22%
253	4460.5	82945104	.00727	135.17	274365.35	0.00	4747810.15	929.11	87.31%
406	480.7	5260115	.00727	79.52	29590.16	0.00	298974.17	881.79	86.94%
231	1656.2	31601966	.00727	138.72	101872.86	0.00	1762693.66	925.53	86.87%
409	1677.1	32278259	.00727	139.92	103158.42	0.00	1784937.55	924.38	86.76%
470	2967.4	57472165	.00727	140.80	182524.77	0.00	3158203.32	923.50	86.77%

416	1024.0	19888813	.00727	141.29	62986.24	0.00	1069843.20	923.10	86.73%
305	6675.8	130025743	.00727	141.60	410628.46	0.00	7105053.94	922.70	86.70%
365	1442.6	28356915	.00727	142.91	88734.33	0.00	1535359.18	921.37	86.57%
446	2543.8	46610250	.00727	144.58	144167.14	0.00	2494506.34	919.72	86.42%
413	1943.0	38690813	.00727	144.77	119513.93	0.00	2067934.90	919.53	86.40%
457	3319.6	66379379	.00727	145.37	204188.60	0.00	3533850.28	918.93	86.34%
101	1104.5	22376356	.00727	147.28	67937.79	0.00	1175519.35	917.02	86.16%
490	2017.0	41954725	.00727	151.22	124065.67	0.00	2146693.10	913.08	85.79%
357	674.0	8068652	.00727	87.05	41457.74	0.00	412016.20	524.27	85.74%
313	2145.5	45166262	.00727	153.05	131969.70	0.00	2283455.65	911.25	85.62%
383	5848.6	123846961	.00727	153.95	359747.39	0.00	6224664.98	910.35	85.54%
338	460.9	5609540	.00727	88.48	28349.96	0.00	281748.17	522.82	85.53%
429	382.5	4662137	.00727	88.61	23527.58	0.00	233822.25	522.69	85.50%
508	859.0	10519006	.00727	89.03	52837.09	0.00	525106.70	522.27	85.44%
246	587.5	7245186	.00727	89.66	36137.12	0.00	359138.75	521.64	85.33%
379	1561.6	33961009	.00727	158.13	96054.02	0.00	1662010.85	936.20	85.14%
493	1231.5	27330226	.00727	161.34	75749.57	0.00	1310685.45	902.96	84.84%
340	715.5	9143616	.00727	92.91	44010.40	0.00	437385.15	518.39	84.82%
443	4120.1	91821236	.00727	162.02	253427.55	0.00	4385022.45	902.28	84.78%
465	2273.1	50910359	.00727	162.83	139818.38	0.00	2419260.33	901.47	84.70%
309	1472.5	33118199	.00727	163.51	90573.47	0.00	1567181.75	900.79	84.64%
308	4897.3	111820437	.00727	166.00	301232.92	0.00	5212196.39	898.30	84.40%
501	14181.7	325760905	.00727	167.00	872316.37	0.00	15093583.31	897.30	84.31%
344	412.0	5458977	.00727	96.33	25342.12	0.00	251855.60	514.97	84.24%
396	685.2	9134452	.00727	96.92	42146.65	0.00	418862.76	514.38	84.15%
333	1354.4	31535351	.00727	169.27	83309.14	0.00	1441487.92	895.03	84.13%
345	3374.5	78700961	.00727	169.55	207565.49	0.00	3591480.35	894.75	84.07%
459	399.0	5411534	.00727	98.60	24542.49	0.00	243908.70	512.70	83.87%
447	640.5	8766787	.00727	99.51	39397.15	0.00	391537.65	511.79	83.72%
454	342.0	4709609	.00727	100.11	21036.42	0.00	209064.60	511.19	83.62%
348	918.2	12669100	.00727	100.31	56478.48	0.00	561295.66	510.99	83.59%
489	3266.1	80071787	.00727	178.23	200897.81	0.00	3476110.23	886.07	83.25%
249	420.5	6072170	.00727	104.98	25864.95	0.00	257051.65	506.32	82.83%
465	1100.1	27684877	.00727	182.95	67667.15	0.00	1170536.43	882.35	82.81%
385	405.5	6795236	.00727	106.13	28682.90	0.00	284560.15	505.17	82.64%
473	1205.0	30702048	.00727	185.23	74119.55	0.00	1282481.50	879.77	82.60%
497	7639.6	195279705	.00727	185.83	469911.20	0.00	8130826.28	878.47	82.54%
229	6595.0	168667464	.00727	185.93	405658.45	0.00	7019058.50	878.37	82.53%
259	43368.5	1110929480	.00727	186.23	2667596.44	0.00	46157094.55	878.07	82.51%
372	601.0	8936539	.00727	108.10	36967.51	0.00	367591.30	508.20	82.32%
505	312.0	4657727	.00727	109.23	19191.12	0.00	190725.60	502.17	82.13%
450	3891.0	89826767	.00727	192.58	208580.41	0.00	3609041.30	871.72	81.97%
426	3328.9	89728376	.00727	195.96	204769.64	0.00	3542948.27	868.34	81.69%
336	887.5	13778108	.00727	112.86	54590.12	0.00	942528.75	496.44	81.54%
457	5629.1	153976395	.00727	198.86	346245.94	0.00	5991051.13	865.44	81.32%
512	29068.1	796559111	.00727	199.22	1787978.83	0.00	30937178.53	865.08	81.28%
315	1210.5	33326302	.00727	200.13	74457.65	0.00	1288535.15	864.17	81.20%
312	1123.5	31188521	.00727	201.82	69106.49	0.00	1195741.35	862.48	81.04%
289	667.7	18666544	.00727	116.07	41070.23	0.00	403165.91	495.23	81.01%
266	5206.8	144664706	.00727	202.30	320270.27	0.00	5541597.24	862.00	80.99%
444	638.0	10438211	.00727	118.94	39243.38	0.00	390009.40	492.36	80.84%
343	855.5	14095903	.00727	119.79	52621.81	0.00	522967.15	491.51	80.70%
464	745.9	12527327	.00727	120.15	45880.31	0.00	455968.67	491.15	80.65%
323	577.5	9570873	.00727	120.49	35522.03	0.00	353025.75	490.81	80.59%

487	5e0.6	9331237	.00727	121.01	34482.51	0.00	342694.78	490.25	80.22%
339	379.9	6551642	.00727	121.55	23367.65	0.00	232232.87	489.75	80.12%
352	1232.0	36033877	.00727	212.63	75780.32	0.00	1311217.60	851.67	80.22%
341	529.0	9067162	.00727	124.61	32538.79	0.00	323377.70	488.64	79.62%
342	481.5	8330851	.00727	125.78	29617.06	0.00	294340.95	488.53	79.42%
247	779.5	13525666	.00727	126.13	47947.04	0.00	476506.35	488.17	79.37%
425	295.5	5133196	.00727	126.29	18176.20	0.00	180639.15	488.01	79.34%
268	498.0	8713964	.00727	127.21	30631.98	0.00	304427.40	484.09	79.15%
362	1324.0	40663939	.00727	223.28	81439.24	0.00	1409133.20	841.02	77.02%
461	781.0	13812733	.00727	128.58	48039.31	0.00	477425.30	482.72	78.97%
287	726.5	13130877	.00727	131.40	44687.01	0.00	444109.45	479.90	78.50%
430	643.7	11642302	.00727	131.49	39593.99	0.00	393493.81	479.81	78.49%
463	3e0.0	651716e	.00727	131.61	22143.60	0.00	2200e5.00	479.69	78.47%
456	329.5	6018134	.00727	132.78	20267.54	0.00	201425.35	478.52	78.28%
4e6	1102.3	35583300	.00727	234.75	67784.02	0.00	1172855.60	829.55	77.74%
436	804.7	14945119	.00727	135.02	49497.10	0.00	491915.11	476.28	77.91%
495	1092.6	35475062	.00727	236.03	67205.83	0.00	11e2854.18	825.27	77.82%
421	378.5	7262025	.00727	139.46	23281.53	0.00	231377.05	471.82	77.14%
416	2288.3	77023974	.00727	244.71	140753.33	0.00	2435437.69	819.59	77.31%
378	514.5	10000887	.00727	141.31	31646.90	0.00	314513.55	469.99	76.92%
420	629.0	12260552	.00727	141.71	38689.79	0.00	384507.70	469.59	76.82%
243	486.5	9627717	.00727	143.87	29924.61	0.00	297397.45	467.43	76.46%
211	706.5	14405468	.00727	148.23	43456.81	0.00	431883.45	463.07	75.75%
377	778.3	1612547A	.00727	150.65	47854.78	0.00	475591.40	461.62	75.53%
440	718.0	1515e39	.00727	153.46	44164.18	0.00	438913.40	457.84	74.90%
235	478.5	10184310	.00727	154.73	29432.53	0.00	292507.85	456.57	74.69%
375	1163.0	43834984	.00727	270.89	71536.13	0.00	1237760.90	793.41	74.55%
352	402.5	8809426	.00727	159.12	24757.77	0.00	246048.25	452.18	73.97%
504	458.0	10224768	.00727	162.30	28171.58	0.00	279975.40	449.00	73.45%
330	556.0	12531644	.00727	163.27	34322.58	0.00	341105.40	448.03	73.29%
441	941.0	21871724	.00727	168.58	57880.91	0.00	575233.30	442.72	72.36%
481	223.0	5157652	.00727	169.78	13532.20	0.00	134456.00	441.52	72.18%
231	501.3	11701541	.00727	169.80	30816.51	0.00	306251.31	441.50	72.22%
222	481.0	19130318	.00727	171.27	26449.30	0.00	262859.20	440.03	71.98%
268	537.5	12703e74	.00727	171.82	33061.62	0.00	328573.75	439.48	71.89%
278	310.0	7377076	.00727	173.00	19068.10	0.00	189503.00	438.30	71.70%
411	246.3	5930241	.00727	173.63	15272.93	0.00	151785.79	437.67	71.60%
265	652.0	16342019	.00727	174.20	41949.82	0.00	416906.60	437.10	71.51%
356	399.5	9711868	.00727	176.73	24573.24	0.00	244214.35	434.57	71.09%
307	384.0	8127226	.00727	176.90	20544.34	0.00	204174.20	434.40	71.06%
340	544.0	13271393	.00727	177.36	33461.44	0.00	332547.20	433.94	70.99%
337	386.0	9717134	.00727	182.07	23865.88	0.00	237154.40	429.23	70.22%
484	891.0	22403818	.00727	182.80	54805.41	0.00	544668.30	428.50	70.10%
322	415.5	13e07277	.00727	186.49	25484.38	0.00	252772.55	424.81	69.49%
327	710.6	1824e0e8	.00727	186.62	43721.31	0.00	434512.84	424.68	69.47%
478	371.2	10093058	.00727	187.57	24062.71	0.00	239140.5e	423.73	69.32%
285	177.5	4e26851	.00727	189.57	10916.02	0.00	108505.75	421.73	68.99%
438	534.5	14132e73	.00727	190.04	33164.64	0.00	329796.35	421.26	68.91%
407	1212.7	5e579507	.00727	388.65	75823.38	0.00	1511942.61	733.67	68.45%
380	599.0	15865127	.00727	192.55	36844.49	0.00	366162.70	416.75	68.50%
258	621.3	1ee09488	.00727	194.76	38136.20	0.00	379006.00	416.54	68.14%
351	1098.7	51413611	.00727	340.23	67581.04	0.00	11e9846.41	724.13	68.34%
254	620.2	18322952	.00727	195.84	41837.10	0.00	415806.26	415.46	67.06%
398	412.5	11411769	.00727	201.12	25372.88	0.00	252161.25	410.18	67.02%

410	596.7	16547315	.00727	201.61	36703.02	0.00	364762.71	409.69	67.02%
370	541.1	15009149	.00727	201.66	33283.06	0.00	330774.43	409.64	67.01%
240	481.7	13391946	.00727	202.12	29629.37	0.00	294463.21	409.18	66.94%
417	972.5	27121605	.00727	202.75	59818.47	0.00	594489.25	408.55	66.83%
264	942.5	26855120	.00727	207.17	57973.17	0.00	576150.25	404.13	66.11%
462	407.5	11705442	.00727	207.80	25188.54	0.00	250327.35	403.44	66.00%
364	900.6	26287915	.00727	212.35	55359.00	0.00	550170.00	398.95	65.26%
486	251.0	7410261	.00727	214.63	15437.01	0.00	153436.30	396.67	64.89%
433	199.5	5904453	.00727	215.16	12271.24	0.00	121954.35	396.14	64.80%
272	547.0	16303704	.00727	216.69	33645.97	0.00	334381.10	394.61	64.55%
400	794.5	24116570	.00727	220.69	48869.69	0.00	485677.85	390.61	63.90%
468	742.0	22721326	.00727	222.62	45640.42	0.00	453584.60	388.68	63.58%
481	375.8	11538558	.00727	223.22	23115.46	0.00	229726.54	388.08	63.48%
252	483.0	14828157	.00727	223.65	29647.82	0.00	294646.60	387.65	63.41%
369	215.5	6639020	.00727	225.97	13255.40	0.00	131735.15	385.33	63.04%
479	257.5	8011564	.00727	226.19	15938.82	0.00	157409.75	385.11	63.00%
369	268.0	8402979	.00727	227.95	16484.68	0.00	163828.40	383.35	62.71%
329	522.4	16406838	.00727	228.33	32132.82	0.00	319343.12	382.97	62.65%
365	967.6	30396330	.00727	228.38	59517.08	0.00	591493.88	382.92	62.64%
412	529.0	16625938	.00727	228.49	32538.79	0.00	323377.70	382.81	62.62%
384	248.5	7832754	.00727	229.15	15285.23	0.00	151908.05	382.15	62.51%
389	691.5	21704853	.00727	229.24	42584.17	0.00	2713.95	382.06	62.52%
238	208.5	6587196	.00727	229.75	12824.53	0.00	127456.05	381.55	62.42%
237	643.0	20389821	.00727	230.53	39550.93	0.00	393065.90	380.77	62.29%
393	303.0	9611681	.00727	230.62	18637.53	0.00	185223.90	380.68	62.27%
442	378.1	12033020	.00727	231.37	23256.93	0.00	231132.53	379.93	62.15%
325	711.5	22685326	.00727	231.80	43764.36	0.00	434939.95	379.50	62.08%
468	326.5	10422576	.00727	232.07	20083.01	0.00	199589.45	379.23	62.04%
405	750.1	24012707	.00727	232.73	46128.65	0.00	458536.13	378.57	61.93%
448	386.5	12565908	.00727	236.36	23773.61	0.00	236267.45	374.94	61.33%
360	301.0	9793442	.00727	236.5	18514.51	0.00	184001.50	374.76	61.31%
273	780.0	25426604	.00727	236.99	47977.80	0.00	476814.00	374.31	61.23%
427	608.5	19816703	.00727	237.96	37244.31	0.00	370142.15	373.34	61.07%
256	333.0	10912236	.00727	238.23	20482.83	0.00	203562.90	373.07	61.03%
311	268.5	8673539	.00727	239.30	16207.89	0.00	161077.55	372.00	60.85%
239	642.5	21345287	.00727	241.53	39520.17	0.00	392760.25	369.77	60.49%
318	472.5	15939619	.00727	245.25	29063.47	0.00	288839.25	366.05	59.88%
392	475.5	16147636	.00727	246.88	29248.00	0.00	290673.15	364.42	59.61%
432	403.5	13792768	.00727	248.51	24819.28	0.00	246659.55	362.79	59.35%
102	576.0	19834212	.00727	249.47	35552.78	0.00	353331.40	361.83	59.19%
212	203.5	6991725	.00727	249.78	12517.28	0.00	124399.55	361.52	59.14%
206	506.0	17447915	.00727	250.68	31124.06	0.00	309317.80	360.62	58.99%
366	560.0	19598346	.00727	254.43	34445.60	0.00	342328.00	356.87	58.38%
297	419.0	14668970	.00727	254.52	25772.69	0.00	256134.70	356.78	58.36%
419	384.5	13469387	.00727	254.67	23650.59	0.00	235044.85	356.63	58.34%
386	288.5	10201054	.00727	259.02	17714.88	0.00	176054.40	352.28	57.63%
285	202.0	7198450	.00727	259.07	12425.02	0.00	123492.60	352.23	57.62%
331	251.5	9115444	.00727	263.50	15469.76	0.00	153741.75	347.80	56.90%
324	168.0	6117627	.00727	264.73	10333.68	0.00	102695.40	346.57	56.69%
245	319.5	11637231	.00727	264.80	19652.44	0.00	195310.35	346.50	56.68%
420	259.0	9465551	.00727	265.69	15931.09	0.00	158322.70	345.61	56.54%
310	516.0	19147276	.00727	269.77	31739.16	0.00	315430.80	341.53	55.87%
423	426.0	15939512	.00727	272.02	26203.26	0.00	260413.80	339.28	55.50%
355	552.1	20938582	.00727	275.72	33959.67	0.00	337498.73	335.58	54.90%

282	446.9	17021619	.00727	276.90	27488.82	0.00	273189.97	334.40	54.76%
279	198.5	7587161	.00727	277.33	12209.75	0.00	121343.05	333.42	54.54%
294	582.5	22948867	.00727	286.42	35829.57	0.00	356022.25	324.88	53.15%
361	935.5	36843157	.00727	286.54	60618.10	0.00	602456.15	324.76	53.13%
235	607.5	24312810	.00727	290.95	37367.32	0.00	371364.75	320.35	52.41%
481	691.0	27659651	.00727	291.01	42503.41	0.00	422488.80	320.29	52.40%
347	376.7	15156837	.00727	291.55	23253.84	0.00	231499.31	319.75	52.31%
386	657.1	27172799	.00727	300.64	40418.22	0.00	401685.23	310.66	50.82%
224	405.4	16741572	.00727	301.71	24813.13	0.00	246598.42	309.59	50.64%
359	212.5	8841247	.00727	302.47	13079.88	0.00	129901.25	308.83	50.52%
349	283.5	11789551	.00727	307.46	17438.08	0.00	173303.55	303.84	49.70%
471	159.5	6868303	.00727	313.06	9810.84	0.00	97502.35	298.24	48.79%
293	320.5	13317096	.00727	313.42	19713.95	0.00	195921.65	297.88	48.73%
459	284.0	12266609	.00727	314.01	17468.84	0.00	173609.20	297.29	48.63%
397	274.5	12842128	.00727	317.02	16114.69	0.00	160027.55	294.28	48.14%
241	322.0	14164066	.00727	319.79	19806.22	0.00	196838.60	291.51	47.69%
296	401.0	18060733	.00727	327.80	24665.51	0.00	245131.30	283.50	46.38%
334	265.0	11967894	.00727	328.33	16300.15	0.00	161994.50	282.97	46.29%
350	429.0	19710461	.00727	334.02	26387.79	0.00	262247.70	277.28	45.36%
264	540.5	25133780	.00727	338.06	33246.15	0.00	330467.65	273.24	44.70%
281	504.6	23635372	.00727	340.53	31037.95	0.00	308461.98	270.77	44.29%
223	384.5	18078945	.00727	341.83	23609.59	0.00	234644.85	269.47	44.08%
455	152.5	7196536	.00727	343.17	9380.27	0.00	93223.25	268.13	43.86%
254	802.0	38090956	.00727	345.29	49331.02	0.00	490262.60	266.01	43.52%
388	352.0	16940246	.00727	349.38	21682.27	0.00	215483.25	261.92	42.85%
390	141.5	6818399	.00727	350.32	8708.66	0.00	86498.95	260.98	42.69%
213	128.0	6173979	.00727	350.66	7873.28	0.00	78246.40	260.64	42.64%
275	117.3	5762856	.00727	351.03	7341.22	0.00	72958.65	260.27	42.58%
403	552.0	17145671	.00727	354.12	21651.52	0.00	215177.60	257.18	42.07%
422	450.0	21407373	.00727	361.93	26449.30	0.00	262859.00	249.37	40.79%
371	210.5	10680676	.00727	368.86	12947.85	0.00	128678.65	242.42	39.66%
492	234.0	11873430	.00727	368.89	14393.34	0.00	143044.20	242.41	39.65%
340	142.5	7260846	.00727	370.41	8765.17	0.00	87110.25	240.89	39.41%
292	210.5	10759041	.00727	371.58	12947.85	0.00	128678.65	239.72	39.21%
467	568.0	25907853	.00727	373.28	34630.13	0.00	344161.90	238.02	38.94%
221	172.5	8856597	.00727	373.69	10610.48	0.00	105449.75	237.62	38.87%
164	295.0	15045149	.00727	377.51	12609.55	0.00	125316.50	233.79	38.24%
274	475.5	24746656	.00727	378.36	29248.00	0.00	290673.15	232.94	38.11%
471	406.0	21274100	.00727	380.94	24973.06	0.00	248187.80	230.36	37.68%
-	147.5	7945040	.00727	391.69	9072.73	0.00	90166.75	219.70	35.94%
270	489.0	26608844	.00727	395.52	30078.39	0.00	298925.70	215.78	35.30%
477	220.0	11989562	.00727	396.20	13532.20	0.00	134486.00	215.10	35.19%
511	254.0	12919652	.00727	401.39	14393.34	0.00	143044.20	209.91	34.34%
482	367.0	20346508	.00727	403.85	22574.17	0.00	224347.10	208.25	34.07%
214	1520.1	149167192	.00727	722.92	92271.15	0.00	1596556.48	341.38	32.02%
488	353.6	20919317	.00727	429.87	21762.24	0.00	216277.94	181.43	29.68%
326	227.5	13756829	.00727	439.61	13993.52	0.00	139070.75	171.69	28.09%
302	204.5	12492110	.00727	444.10	12578.80	0.00	125010.85	167.20	27.35%
483	566.0	34839813	.00727	446.57	34445.60	0.00	342326.00	164.73	26.95%
77	73.5	4526813	.00727	452.90	4520.90	0.00	44930.55	158.40	25.91%
225	167.0	10773754	.00727	465.46	10395.19	0.00	103309.70	147.84	24.18%
444	386.0	25252713	.00727	475.61	23742.86	0.00	235961.80	135.69	22.20%
314	149.5	10055999	.00727	489.01	9195.74	0.00	91387.35	122.29	20.01%
303	322.5	21912017	.00727	493.95	19836.97	0.00	197144.25	117.35	19.23%

280	124.0	8466891	.00727	496.41	7627.24	0.00	75801.20	114.89	18.83%
502	189.0	13071900	.00727	502.82	11625.39	0.00	115535.70	108.48	17.75%
735	314.0	21866451	.00727	506.27	19314.14	0.00	191948.20	105.68	17.18%
354	222.5	15509823	.00727	506.77	13685.98	0.00	136014.25	104.53	17.10%
227	248.5	17112362	.00727	510.91	14977.68	0.00	148851.55	100.39	16.42%
496	152.0	10699[illegible]	.00727	511.76	9349.52	0.00	92917.60	99.54	16.28%
103	225.5	1[illegible]082626	.00727	518.50	13870.50	0.00	137848.15	92.80	15.18%
219	203.5	14774237	.00727	527.81	12517.28	0.00	124379.55	83.49	13.66%
395	364.0	26653509	.00727	532.34	22389.64	0.00	222513.20	75.96	12.42%
300	426.5	31[illegible]4357	.00727	542.26	25864.95	0.00	257051.65	69.04	11.29%
242	108.5	8207005	.00727	549.91	6673.84	0.00	66326.05	61.39	10.04%
218	596.0	45462536	.00727	554.55	36659.96	0.00	364334.80	56.75	9.28%
228	139.0	10641709	.00727	556.58	8549.89	0.00	84970.70	54.72	8.95%
534	123.5	9[illegible]7709	.00727	574.99	7596.48	0.00	75495.55	36.3[illegible]	5.94%
200	536.7	3[illegible]26428	.00727	661.28	20719.42	0.00	205824.71	-47.98	0.00%
209	145.3	61573700	.00727	5080.50	5937.40	0.00	58821.69	-2469.50	0.00%
210	897.5	172138611	.00727	1394.37	55205.22	0.00	548641.75	-788.07	0.00%
215	685.0	138378950	.00727	1473.94	42134.35	0.00	418740.50	-862.64	0.00%
21[illegible]	254.5	44148764	.00727	1261.15	15654.30	0.00	155575.85	-649.85	0.00%
217	216.0	57832171	.00727	1946.48	13286.16	0.00	132040.80	-1335.18	0.00%
220	237.7	28655649	.00727	876.43	14620.93	0.00	145306.01	-265.13	0.00%
22[illegible]	401.5	58155719	.00727	1053.03	24696.26	0.00	245436.95	-441.73	0.00%
244	765.6	493247327	.00727	4683.79	47092.06	0.00	4[illegible]11.25	-4072.[illegible]	0.00%
269	188.0	15884436	.00727	614.25	11563.88	0.00	114924.40	-2.95	0.00%
275	108.5	10255602	.00727	687.17	6673.84	0.00	66326.05	-75.87	0.00%
299	208.5	18069184	.00727	650.04	12824.83	0.00	127456.05	-[illegible].74	0.00%
301	91.0	10940580	.00727	874.04	5597.41	0.00	55628.30	-262.74	0.00%
321	1009.1	224298706	.00727	1615.95	62069.74	0.00	1073985.13	-551.65	0.00%
328	475.5	44532540	.00727	680.87	29248.00	0.00	290673.15	-69.57	0.00%
332	307.0	34561228	.00727	818.44	18883.57	0.00	187669.10	-207.14	0.00%
351	282.0	26168374	.00727	674.62	17345.82	0.00	172386.60	-63.32	0.00%
362	780.3	101714100	.00727	947.66	47996.25	0.00	476997.39	-336.36	0.00%
363	605.5	119847825	.00727	1330.90	37244.31	0.00	370142.15	-719.60	0.00%
374	450.0	41981130	.00727	622.36	30139.93	0.00	299537.00	-11.56	0.00%
399	170.5	18786252	.00727	809.65	10467.45	0.00	104026.95	-198.35	0.00%
401	173.0	15512771	.00727	651.47	10641.23	0.00	105754.90	-40.17	0.00%
424	118.0	12604676	.00727	850.52	7258.19	0.00	72133.40	-239.22	0.00%
452	493.6	65907956	.00727	970.73	30361.34	0.00	301737.68	-354.43	0.00%
468	119.0	16396531	.00727	635.27	7319.69	0.00	72744.70	-23.97	0.00%
474	146.0	12794336	.00727	637.09	8980.46	0.00	89249.[illegible]	-25.79	0.00%
476	122.0	10639601	.00727	634.02	7504.22	0.00	74578.60	-22.72	0.00%
494	419.0	36458565	.00727	632.59	25772.69	0.00	256164.70	-21.29	0.00%
507	382.6	73310681	.00727	1395.21	23476.82	0.00	233316.60	-788.[illegible]	0.00%
	599755.2	11255101979	.00727 Mn	313.00 Mn	24588959.28	0 Mn	3809987[illegible]47.19	419.40 Mn	60.01% Mn

APPENDIX 4 C

PERCENTAGE EQUALIZED GRANT

BY

PERCENT AID REQUIRED

TO FUND

ESTIMATED NEED MODEL

IN RURAL AND URBAN DISTRICTS

APPENDIX 4C

PERCENTAGE EQUALIZED GRANT DATA BY PERCENT AID REQUIRED TO FUND THE ESTIMATED NEED MODEL IN URBAN DISTRICTS

USD	FTE	AV 1987	State Mean Levy	Revenue Under Mn Levy	Required Revenue to Fund APM	Pct Aid @ APM	Req. Revenue to Fund R/U Est. Need	BPP aid to District @ Need	Percent Aid under Need Model
263	1803.0	16225664	.00727	65.42	110902.53	0.00	1918932.90	998.88	93.85%
475	6557.7	61729817	.00727	68.43	403364.13	0.00	6979360.11	995.87	93.57%
469	1461.5	15202944	.00727	75.62	89896.86	0.00	1555474.45	988.68	92.89%
230	1212.5	12795266	.00727	76.72	74580.88	0.00	1290463.75	987.58	92.79%
394	1233.0	13343104	.00727	78.57	75841.83	0.00	1312281.90	985.63	92.61%
434	1215.2	14450326	.00727	86.45	74746.95	0.00	1293337.36	977.85	91.88%
232	1651.8	20937425	.00727	92.15	101602.22	0.00	1758010.74	972.15	91.34%
458	1150.6	14656197	.00727	92.60	70773.41	0.00	1224583.58	971.70	91.30%
262	1882.0	24968380	.00727	96.45	115761.82	0.00	2003012.60	967.85	90.94%
261	3117.8	41372600	.00727	96.47	191775.88	0.00	3318274.54	967.83	90.94%
266	1740.1	23565193	.00727	98.54	107033.55	0.00	1851988.43	965.76	90.74%
202	3836.1	53148939	.00727	100.73	235958.51	0.00	4082761.23	963.57	90.54%
464	1251.0	17600023	.00727	102.74	76949.01	0.00	1331439.30	961.56	90.35%
367	1096.0	15712899	.00727	104.23	67414.96	0.00	1166472.80	960.07	90.21%
402	1813.5	26096927	.00727	104.62	111548.38	0.00	1930108.05	959.68	90.17%
453	4260.0	62118557	.00727	106.01	262032.60	0.00	4533918.00	958.29	90.04%
500	22131.4	326875449	.00727	107.38	1361302.41	0.00	23554449.02	956.92	89.91%
503	1957.5	29621570	.00727	110.01	120405.82	0.00	2083367.25	954.29	89.66%
204	2073.0	31441142	.00727	110.26	127510.23	0.00	2206293.90	954.04	89.64%
353	1884.0	28665817	.00727	110.62	115884.84	0.00	2005141.20	953.68	89.61%
250	2909.0	44687539	.00727	111.68	178932.59	0.00	3096048.70	952.62	89.51%
248	1039.0	16466831	.00727	115.22	63908.89	0.00	1105807.70	949.08	89.17%
290	2135.5	34353026	.00727	116.95	131354.60	0.00	2272812.65	947.35	89.01%
320	1176.1	19083197	.00727	117.96	72341.91	0.00	1251723.23	946.34	88.92%
267	1383.5	22491285	.00727	118.19	85099.08	0.00	1472459.05	946.11	88.90%
506	1605.1	26801962	.00727	121.39	98729.70	0.00	1708307.93	942.91	88.59%
257	1746.0	29248558	.00727	121.79	107396.46	0.00	1858267.80	942.51	88.56%
450	3226.5	54215264	.00727	122.16	198462.01	0.00	3433963.95	942.14	88.52%
385	1564.0	26682188	.00727	124.03	96201.64	0.00	1664565.20	940.27	88.35%
234	2046.5	35288463	.00727	125.36	125880.21	0.00	2178089.95	938.94	88.22%
373	3035.7	52972852	.00727	126.86	186725.91	0.00	3230895.51	937.44	88.08%
233	12139.6	216122462	.00727	129.43	746706.80	0.00	12920176.28	934.87	87.84%
445	2765.6	50707784	.00727	133.30	170112.06	0.00	2943428.08	931.00	87.48%
265	1854.7	34073587	.00727	133.56	114082.60	0.00	1973957.21	930.74	87.45%
435	1386.5	25682961	.00727	134.67	85283.61	0.00	1475651.95	929.63	87.35%
253	4460.5	82945104	.00727	135.19	274365.35	0.00	4747310.15	929.11	87.30%
231	1636.2	31601966	.00727	138.72	101872.86	0.00	1762693.66	925.58	86.97%
409	1677.1	32278259	.00727	139.92	103158.42	0.00	1784937.53	924.38	86.85%
470	2967.4	57472165	.00727	140.80	182524.77	0.00	3158203.82	923.50	86.77%
416	1024.0	19888813	.00727	141.20	62986.24	0.00	1089843.20	923.10	86.73%
305	6675.8	130025743	.00727	141.60	410628.46	0.00	7105053.94	922.70	86.70%
368	1442.6	28356915	.00727	142.91	88734.33	0.00	1535359.18	921.39	86.57%
446	2343.8	46610250	.00727	144.58	144167.14	0.00	2494506.34	919.72	86.42%
413	1943.0	38690813	.00727	144.77	119513.93	0.00	2067934.90	919.53	86.40%

487	3317.6	66379379	.00727	145.37	204186.60	0.00	3533059.28	918.93	86.34%
101	1104.5	22376356	.00727	147.26	67987.79	0.00	1175519.35	917.02	86.19%
490	2017.0	41754725	.00727	151.22	124065.67	0.00	2146693.10	913.05	85.77%
313	2145.5	45166262	.00727	153.05	131969.70	0.00	2283435.65	9..25	85.62%
383	5845.6	123646961	.00727	153.95	359747.37	0.00	6224604.98	910.85	85.54%
379	1561.6	33961009	.00727	158.10	96054.02	0.00	1662010.88	906.20	85.14%
493	1281.5	27356226	.00727	161.34	75749.57	0.00	1310625.45	902.96	84.84%
443	4120.1	91821236	.00727	162.02	253427.35	0.00	4385022.48	902.28	84.78%
465	2275.1	50910359	.00727	162.83	139818.38	0.00	2419260.38	901.47	84.70%
309	1472.5	33118199	.00727	163.51	90573.47	0.00	1567181.75	900.79	84.64%
308	4897.3	111820437	.00727	166.00	301232.92	0.00	5212196.39	898.30	84.40%
501	14181.7	325760905	.00727	167.00	872316.37	0.00	15098583.31	897.30	84.31%
333	1354.4	31535351	.00727	169.27	83309.14	0.00	1441487.92	895.03	84.13%
345	3374.5	78703761	.00727	169.55	207565.49	0.00	3591482.35	894.75	84.07%
459	3866.1	90071787	.00727	178.22	237897.81	0.00	3476110.23	886.07	83.25%
415	1163.1	27324377	.00727	182.95	67667.15	0.00	1170836.43	881.35	82.81%
473	1205.0	30702048	.00727	185.23	74119.55	0.00	1282481.50	879.07	82.60%
497	7639.6	195279705	.00727	185.83	469911.80	0.00	8130826.28	878.47	82.54%
229	6595.0	168667464	.00727	185.93	405658.45	0.00	7019058.50	878.37	82.53%
259	43368.5	1110929480	.00727	186.23	2667596.44	0.00	46157094.55	878.07	82.50%
480	3391.0	89826767	.00727	192.58	208580.41	0.00	3609041.30	871.72	81.91%
426	3328.9	89728376	.00727	195.96	204760.64	0.00	3542948.27	868.34	81.59%
457	5629.1	153976395	.00727	198.86	346245.94	0.00	5991051.13	865.44	81.32%
512	29066.1	796559111	.00727	199.22	1787978.83	0.00	30937176.83	865.08	81.29%
515	1210.5	33323302	.00727	200.13	74457.85	0.00	1288333.15	864.17	81.20%
312	1133.5	31183521	.00727	201.82	69705.49	0.00	1195741.05	862.48	81.04%
260	5206.2	144864706	.00727	202.30	320270.27	0.00	5541597.24	862.00	80.99%
352	1232.0	36033877	.00727	212.63	75780.32	0.00	1311217.60	851.67	80.02%
362	1524.0	40663939	.00727	223.28	81439.24	0.00	1409136.20	841.02	79.02%
466	1102.0	35583300	.00727	234.75	67784.02	0.00	1172658.60	829.55	77.94%
495	1092.6	35473062	.00727	236.03	67205.83	0.00	1162654.18	828.27	77.82%
418	2268.3	77023974	.00727	244.71	140753.33	0.00	2435437.69	819.59	77.01%
375	1163.9	43834984	.00727	276.89	71536.13	0.00	1237750.70	793.41	74.55%
467	1253.7	52570307	.00727	338.63	75823.38	0.00	1311962.61	738.67	69.41%
331	1698.7	51413011	.00727	349.20	67581.04	0.00	1169346.41	729.13	68.51%
214	1539.1	149167192	.00727	722.92	92271.15	0.00	1596555.43	34..33	32.03%
521	1009.1	224293706	.00727	1615.95	62069.74	0.00	1073965.13	-551.65	0.00%
	301606.0	6794442983	.00727 Mn	174.90 Mn	18551908.08	0 Mn	321001894.40	889.40 Mn	84.21% Mn

PERCENTAGE EQUALIZED GRANT DATA BY PERCENT AID REQUIRED TO FUND THE ESTIMATED NEED MODEL IN RURAL DISTRICTS

494	794.5	4635130	.00727	49.90	43333.79	.00	430660.85	561.40	91.84%
491	783.2	7467929	.00727	69.32	48174.63	0.00	478770.16	54..96	88.22%
203	964.0	9785527	.00727	73.80	59295.64	0.00	589293.22	537.50	87.93%
337	768.1	8203445	.00727	77.64	47245.83	0.00	469539.53	535.66	87.61%
466	480.9	5260115	.00727	79.52	29580.16	0.00	293974.17	531.73	86.99%
337	674.0	8068652	.00727	87.03	41457.74	0.00	412016.23	524.27	85.76%
355	460.9	5609540	.00727	88.48	28349.96	0.00	281748.17	522.82	85.53%
429	382.5	4662137	.00727	88.61	23527.58	0.00	233822.25	522.69	85.50%
506	859.0	10519006	.00727	89.03	52837.69	0.00	525106.70	522.27	85.44%

296	587.5	7245186	.00727	89.66	36137.12	0.00	339138.75	521.64	85.33%
349	715.5	9143616	.00727	92.91	44010.40	0.00	437385.15	513.39	84.53%
344	412.0	5458977	.00727	96.33	25342.12	0.00	251855.60	514.97	84.24%
396	665.2	9134452	.00727	96.72	42146.65	0.00	418812.75	514.33	84.13%
439	395.0	5411534	.00727	98.69	24542.49	0.00	243908.70	513.71	83.87%
447	640.5	8766787	.00727	99.51	39597.15	0.00	391537.65	511.79	83.72%
454	342.0	4709609	.00727	100.11	21036.42	0.00	209064.60	511.19	83.62%
345	918.2	12669100	.00727	100.31	56478.48	0.00	561295.66	510.99	83.55%
249	420.5	6972170	.00727	104.98	25864.95	0.00	257051.65	506.32	82.83%
335	465.5	6795238	.00727	106.13	28632.90	0.00	284560.15	505.17	82.64%
372	601.0	8936339	00727	108.10	36967.51	0.00	367391.30	503.20	82.32%
305	312.0	4687727	.00727	109.23	19191.12	0.00	190725.60	502.07	82.13%
336	887.5	13778108	.00727	112.86	54590.12	0.00	542528.75	498.44	81.54%
259	667.7	10660544	.00727	116.07	41070.23	0.00	408165.01	495.23	81.01%
449	638.0	10438211	.00727	118.94	39248.38	0.00	390019.40	492.36	80.54%
343	855.5	14095903	.00727	119.79	52621.81	0.00	522967.15	491.51	80.40%
404	745.9	12327327	.00727	120.15	45880.31	0.00	455968.67	491.15	80.35%
326	577.5	9570873	.00727	120.49	35522.03	0.00	353025.75	490.81	80.29%
487	560.6	9331237	.00727	121.01	34482.51	0.00	342694.78	490.29	80.20%
389	379.9	6351642	.00727	121.55	23367.65	0.00	232252.87	489.75	80.12%
341	527.0	9067162	.00727	124.61	32538.79	0.00	323377.70	486.69	79.62%
342	481.5	8330351	.00727	125.78	29617.06	0.00	294340.95	485.52	79.43%
247	779.5	13523666	.00727	126.13	47947.04	0.00	476508.35	485.17	79.37%
425	295.5	5133198	.00727	126.29	18176.20	0.00	180639.15	485.01	79.34%
286	498.3	8713964	.00727	127.21	30631.98	0.00	304427.40	484.09	79.19%
461	781.0	13812783	.00727	128.58	48089.31	0.00	477425.30	482.72	78.97%
237	726.5	13130877	.00727	131.40	44687.01	0.00	444109.45	479.90	78.52%
430	643.7	11642302	.00727	131.49	39593.99	0.00	393493.81	479.81	78.49%
463	360.5	6517166	.00727	131.61	22143.60	0.00	220068.00	479.69	78.47%
456	329.5	6018134	.00727	132.78	20267.54	0.00	201423.35	478.52	78.28%
436	804.7	14945119	.00727	135.02	49497.10	0.00	491913.11	476.28	77.91%
421	378.5	7262625	.00727	139.48	23291.58	0.00	231477.35	471.82	77.19%
373	514.5	10000687	.00727	141.31	31646.93	0.00	314513.35	469.99	76.89%
420	629.0	12269552	.00727	141.71	38689.79	0.00	384507.70	469.59	76.82%
248	486.5	9627717	.00727	143.87	29924.61	0.00	297397.45	467.43	76.46%
211	706.5	14465468	.00727	148.26	43456.81	0.00	431883.45	463.07	75.75%
377	778.0	16125474	.00727	150.68	47854.78	0.00	475591.40	460.62	75.35%
440	718.0	15156397	.00727	153.46	44164.18	0.00	438913.40	457.84	74.90%
235	478.5	10184310	.00727	154.73	29432.53	0.00	292507.05	456.57	74.69%
358	402.5	8609426	.00727	159.12	24757.77	0.00	246048.25	452.18	73.97%
304	458.0	10224768	.00727	162.30	28171.58	0.00	279975.40	449.00	73.45%
330	556.0	12331644	.00727	163.27	34522.58	0.00	341105.40	448.03	73.29%
441	941.0	21871724	.00727	168.98	57880.51	0.00	575233.30	442.32	72.36%
451	220.0	5137652	.00727	169.78	13532.20	0.00	134486.00	441.52	72.23%
286	501.0	11701541	.00727	169.80	30816.51	0.00	306261.30	441.50	72.22%
222	430.0	10130318	.00727	171.27	26449.30	0.00	262859.00	440.03	71.98%
268	537.5	12703674	.00727	171.82	33061.62	0.00	328573.75	439.48	71.89%
278	310.0	7377076	.00727	173.00	19068.10	0.00	189503.00	438.30	71.70%
411	248.5	5930241	.00727	173.63	15272.93	0.00	151785.79	437.67	71.60%
295	662.0	16342019	.00727	174.20	41949.82	0.00	416906.60	437.10	71.50%
356	399.5	9711868	.00727	176.73	24578.24	0.00	244214.35	434.57	71.09%
367	334.0	8127226	.00727	176.90	20544.34	0.00	204174.20	434.40	71.06%
346	544.0	13271393	.00727	177.36	33461.44	0.00	332547.20	433.94	70.99%
387	388.0	9717134	.00727	182.07	23865.68	0.00	237184.40	429.23	70.22%

484	691.0	22403318	.00727	182.80	54805.41	0.00	544668.30	428.52	70.18%
322	413.5	10637277	.00727	186.49	25434.38	0.00	252772.55	424.51	69.49%
527	710.8	18246068	.00727	186.62	43721.31	0.00	434512.04	424.63	69.47%
498	691.2	10095058	.00727	187.57	24062.71	0.00	239140.56	423.73	69.32%
283	177.5	4628351	.00727	189.57	10918.02	0.00	108505.75	423.73	69.32%
406	539.5	14102678	.00727	190.04	33184.64	0.00	329796.35	421.26	68.91%
380	599.0	15865.37	.00727	192.55	36844.49	0.00	366168.70	418.75	68.50%
258	620.0	16609438	.00727	194.76	38136.20	0.00	379006.00	416.54	68.14%
251	680.2	18522952	.00727	195.84	41839.10	0.00	415806.26	415.46	67.96%
398	412.5	11411769	.00727	201.12	25372.88	0.00	252161.25	410.18	67.10%
410	596.7	16547315	.00727	201.61	36703.02	0.00	364762.71	409.69	67.02%
376	541.1	15009149	.00727	201.66	33283.06	0.00	330774.43	409.64	67.01%
246	481.7	1339194e	.00727	202.12	29629.37	0.00	294463.21	409.18	66.94%
417	972.5	27121e05	.00727	202.75	59818.47	0.00	594489.25	408.55	66.85%
264	942.5	2e858120	.00727	207.17	57973.17	0.00	576150.25	404.13	66.13%
462	409.5	11706442	.00727	207.86	25188.34	0.00	250327.35	403.44	66.00%
364	900.0	26287915	.00727	212.35	55359.00	0.00	550170.00	398.95	65.27%
466	251.0	7410261	.00727	214.63	15439.01	0.00	153436.30	396.67	64.89%
433	199.5	5904453	.00727	215.16	12271.24	0.00	121984.35	396.14	64.80%
272	547.0	16303704	.00727	216.69	33645.97	0.00	334381.10	394.61	64.55%
403	794.5	24118570	.00727	220.69	48869.69	0.00	485677.85	390.61	63.90%
460	742.3	2272132e	.00727	222.62	4 640.42	0.00	455584.60	388.65	63.58%
481	375.8	11536558	.00727	223.22	23115.46	0.00	229726.54	388.38	63.43%
252	462.3	14028157	.00727	223.65	29647.82	0.00	294646.60	387.65	63.41%
509	215.5	6639020	.00727	223.97	13255.40	0.00	131735.15	387.33	63.36%
479	257.5	8011564	.00727	226.19	15838.82	0.00	157409.75	385.11	63.00%
367	208.0	6402979	.00727	227.95	1e464.68	0.00	1e3628.40	383.35	62.71%
329	522.4	16406838	.00727	228.33	32132.82	0.00	319343.12	382.97	62.65%
365	967.6	30396330	.00727	228.38	59517.08	0.00	591493.88	382.92	62.64%
412	529.0	16625938	.00727	228.49	32538.79	0.00	323377.70	382.81	62.62%
384	248.5	7832754	.00727	229.15	15285.23	0.00	151908.05	382.15	62.51%
329	691.5	21804853	.00727	229.24	42534.17	0.00	422713.95	382.06	62.50%
238	208.5	6589196	.00727	229.75	12824.83	0.00	127456.65	381.55	62.42%
237	648.0	20369821	.00727	230.51	39850.93	0.00	396065.90	380.77	62.29%
393	303.0	9611681	.00727	230.62	18637.53	0.00	185223.90	380.66	62.27%
442	378.1	12033020	.00727	231.37	23256.93	0.00	231132.53	379.93	62.15%
325	711.5	22655526	.00727	231.80	43764.36	0.00	434959.95	379.50	62.08%
486	326.5	10422576	.00727	232.07	20083.01	0.00	199589.45	379.23	62.04%
405	750.1	24012707	.00727	232.73	46138.65	0.00	458536.13	378.57	61.95%
448	386.5	12565908	.00727	236.36	23773.61	0.00	236267.45	374.94	61.35%
360	301.0	9793442	.00727	236.54	18514.51	0.00	184001.30	374.76	61.31%
273	780.0	25426604	.00727	236.99	47977.60	0.00	476814.00	374.31	61.23%
427	605.5	19816703	.00727	237.96	37244.31	0.00	370142.15	373.34	61.07%
256	333.0	10912236	.00727	238.23	20482.83	0.00	203562.90	373.07	61.03%
511	263.5	8675539	.00727	239.30	16207.89	0.00	161077.55	372.00	60.85%
257	642.5	21345287	.00727	241.53	39520.17	0.00	392760.25	369.77	60.49%
513	472.5	15939619	.00727	245.25	29063.47	0.00	288839.25	366.05	59.88%
392	475.5	16147636	.00727	246.88	29248.00	0.00	290673.15	364.42	59.61%
432	403.5	13792783	.00727	248.51	24819.23	0.00	246659.55	362.79	59.35%
102	378.0	19834212	.00727	249.47	35552.76	0.00	353331.40	361.83	59.19%
212	208.5	6991725	.00727	249.78	12517.28	0.00	124399.55	361.52	59.14%
206	506.0	17447915	.00727	250.68	31124.66	0.00	309317.20	360.62	58.99%
366	560.0	19598346	.00727	254.43	34445.60	0.00	342328.00	356.87	58.38%
297	419.0	14668970	.00727	254.52	25772.69	0.00	256184.70	356.78	58.36%

419	384.5	1[illegible]9387	.00727	254.67	23650.59	0.00	235044.85	356.63	55.34%
386	268.0	10261054	.00727	259.02	17714.88	0.00	176354.40	353.29	57.65%
285	202.0	7198490	.00727	259.07	12425.02	0.00	123482.60	352.23	57.62%
381	251.5	9115444	.00727	263.50	15469.76	0.00	153741.55	347.90	56.93%
324	165.0	6117627	.00727	264.73	10333.68	0.00	102698.40	346.57	56.69%
245	319.5	11637231	.00727	264.80	19652.44	0.00	195310.35	346.50	56.68%
426	259.0	9465551	.00727	265.69	15931.09	0.00	158326.70	345.61	56.54%
316	516.0	19147276	.00727	269.77	31739.16	0.00	315450.60	341.53	55.87%
423	426.0	15939512	.00727	272.02	26203.26	0.00	260418.80	339.28	55.50%
355	552.1	20936552	.00727	275.72	33959.67	0.00	337498.73	335.58	54.90%
282	446.9	17021619	.00727	276.90	27488.82	0.00	273189.97	334.40	54.70%
279	198.5	7587161	.00727	277.88	12209.73	0.00	121348.05	333.42	54.54%
294	582.5	22948867	.00727	286.42	35829.57	0.00	356082.25	324.88	53.15%
361	926.5	36543157	.00727	286.54	60618.10	0.00	602436.15	324.76	53.13%
206	667.5	24312310	.00727	290.95	37367.32	0.00	371364.75	320.35	52.41%
431	691.0	27659661	.00727	291.01	42503.41	0.00	422408.30	320.29	52.40%
347	378.7	15166857	.00727	291.55	23293.64	0.00	231499.31	319.75	52.31%
306	657.1	27173399	.00727	300.64	40416.22	0.00	401665.23	310.66	50.82%
224	403.4	16741572	.00727	301.71	24813.13	0.00	246598.42	309.59	50.64%
359	212.5	8841247	.00727	302.47	13070.88	0.00	129901.25	308.83	50.52%
349	285.5	11989551	.00727	307.46	17438.08	0.00	173303.55	303.84	49.71%
471	159.5	6668303	.00727	313.06	9310.84	0.00	97502.35	298.24	48.79%
273	326.5	13817096	.00727	313.42	19713.95	0.00	195921.65	297.88	48.73%
459	284.0	12266609	.00727	314.01	17468.84	0.00	173609.20	297.29	48.63%
397	294.5	12642128	.00727	317.02	18114.69	0.00	180027.85	294.28	48.14%
241	322.0	14164066	.00727	317.79	19806.22	0.00	196836.60	291.51	47.69%
298	401.0	18080735	.00727	327.80	24665.51	0.00	245131.30	286.50	46.85%
334	265.0	11967894	.00727	328.33	16300.15	0.00	161994.50	282.97	46.29%
350	429.0	19710461	.00727	334.02	26387.79	0.00	262247.70	277.28	45.36%
284	540.5	25133759	.00727	338.06	33246.15	0.00	330407.65	273.24	44.70%
281	504.6	23633372	.00727	340.53	31037.95	0.00	308461.98	270.77	44.29%
223	394.5	18078945	.00727	341.66	23650.59	0.00	235044.35	269.47	44.08%
455	152.5	7198536	.00727	343.17	9359.27	0.00	93023.25	267.98	43.84%
254	802.0	38370956	.00727	345.29	49321.02	0.00	490252.60	266.01	43.52%
388	352.5	16940240	.00727	349.38	21682.27	0.00	215468.25	261.92	42.85%
390	141.5	6816395	.00727	350.32	8708.66	0.00	86495.95	260.98	42.69%
2.5	126.0	6173975	.00727	350.66	7873.28	0.00	78246.40	260.64	42.64%
295	119.3	5762856	.00727	351.03	7341.22	0.00	72958.65	260.27	42.58%
403	352.0	17145671	.00727	354.12	21651.52	0.00	215177.60	257.18	42.07%
422	430.0	21407373	.00727	361.93	26449.30	0.00	262859.00	249.37	40.79%
371	210.5	10660676	.00727	368.88	12947.85	0.00	128678.65	242.42	39.66%
492	234.0	11673450	.00727	368.89	14393.34	0.00	143044.20	242.41	39.66%
316	142.5	7260366	.00727	370.41	8765.17	0.00	87110.25	240.89	39.41%
292	210.5	10759941	.00727	371.58	12947.85	0.00	128678.65	239.72	39.21%
467	563.0	28907352	.00727	373.28	34630.13	0.00	344161.90	238.02	38.94%
221	172.5	8866507	.00727	373.68	10610.48	0.00	105449.25	237.62	38.87%
104	205.0	10645149	.00727	377.51	12609.55	0.00	125316.50	233.79	38.24%
274	475.5	24746636	.00727	378.34	29248.00	0.00	290673.15	232.94	38.11%
271	406.3	21274100	.00727	380.9[illegible]	24973.06	0.00	248187.81	230.36	37.68%
291	147.5	7945040	.00727	391.60	9072.73	0.00	90166.75	219.70	35.94%
270	489.0	26603844	.00727	395.52	30078.39	0.00	298925.70	215.78	35.30%
477	220.0	11989562	.00727	396.20	13532.20	0.00	134486.00	215.10	35.19%
511	234.0	12919652	.00727	401.39	14393.34	0.00	143044.20	209.91	34.34%
462	367.0	20346568	.00727	403.05	22574.17	0.00	224347.10	208.25	34.07%

436	353.6	20919817	.00727	429.87	21762.24	0.00	216277.94	181.43	29.68%
326	227.5	13756829	.00727	439.61	13993.52	0.00	139070.75	171.69	28.09%
302	204.5	12492110	.00727	444.10	12578.80	0.00	125010.85	167.20	27.35%
463	560.3	34396913	.00727	446.57	34445.60	0.00	342323.90	164.73	26.95%
317	73.5	4578880	.00727	452.90	4520.98	0.00	44930.55	158.40	25.91%
225	169.0	10773754	.00727	463.46	10395.19	0.00	103309.70	147.84	24.18%
444	386.0	25252713	.00727	475.61	23742.66	0.00	235961.81	135.69	22.20%
314	149.5	10055599	.00727	489.01	9195.74	0.00	91389.35	122.29	20.00%
393	322.5	21912017	.00727	493.95	19836.97	0.00	197144.25	117.35	19.20%
280	124.0	8466891	.00727	496.41	7627.24	0.00	75801.20	114.89	18.80%
502	189.0	13071900	.00727	502.82	11625.39	0.00	115535.79	108.48	17.75%
255	314.0	21866431	.00727	506.27	19314.14	0.00	191948.20	105.03	17.18%
354	222.5	15509722	.00727	506.77	13695.98	0.00	136014.25	104.53	17.10%
227	243.5	17112382	.00727	510.91	14977.68	0.00	148851.55	100.39	16.42%
476	152.0	10699735	.00727	511.76	9349.52	0.00	92917.63	99.54	16.28%
133	225.5	16082626	.00727	518.50	13870.50	0.00	137846.15	92.80	15.18%
219	203.5	14774257	.00727	527.61	12517.28	0.00	124399.55	83.69	13.66%
355	364.0	26653509	.00727	532.34	22389.64	0.00	222513.2	78.96	12.92%
300	420.5	31364357	.00727	542.26	25864.95	0.00	257051.65	69.04	11.29%
242	108.5	8207005	.00727	549.91	6673.84	0.00	66326.05	61.39	10.04%
218	596.0	45462536	.00727	554.55	36659.96	0.00	364384.80	56.75	9.28%
228	139.0	10641709	.00727	556.58	8549.69	0.00	84970.70	54.72	8.95%
304	123.5	7767700	.00727	574.99	7596.48	0.00	75495.55	36.31	5.94%
210	677.5	172138e11	.00727	1394.57	55205.22	0.00	548641.75	-783.67	0.00%
362	760.3	101714.00	.00727	947.66	47996.25	0.00	476997.39	-336.36	0.00%
244	765.6	495247327	.00727	4688.79	47092.06	0.00	468011.28	-4072.49	0.00%
215	685.0	138878950	.00727	1473.94	42134.35	0.00	418740.50	-862.64	0.00%
303	605.5	110847385	.00727	1330.90	37244.31	0.00	370142.15	-719.60	0.00%
452	493.6	65907958	.00727	970.73	30361.34	0.00	301737.68	-359.45	0.00%
374	470.0	41981130	.00727	622.86	30139.90	0.00	299537.00	-11.56	0.00%
328	475.5	44532540	.00727	680.87	29248.00	0.00	290673.15	-69.57	0.00%
494	419.6	36458565	.00727	632.59	25772.67	0.00	256134.70	-21.29	0.00%
220	422.5	38155719	.00727	1053.03	24676.26	0.00	245436.55	-44.73	0.00%
367	382.0	75310e21	.00727	1375.21	23476.82	0.00	233516.60	-783.91	0.00%
290	336.7	30626428	.00727	661.28	20710.42	0.00	205824.71	-49.98	0.00%
352	307.0	345e1228	.00727	818.44	18883.57	0.00	187e69.10	-297.14	0.00%
35.	252.0	2e168374	.00727	674.62	17345.82	0.00	172386.30	-68.32	0.00%
216	254.5	44148764	.00727	1261.15	15654.30	0.00	155575.85	-647.85	0.00%
226	237.7	28655649	.00727	876.43	14620.93	0.00	145306.01	-265.13	0.00%
217	216.0	57832171	.00727	1946.48	13286.16	0.00	132040.80	-1355.15	0.00%
259	208.5	18069184	.00727	630.04	12824.83	0.00	127456.05	-18.74	0.00%
269	188.0	15884436	.00727	614.25	11563.88	0.00	114924.40	-2.95	0.00%
401	173.0	15502771	.00727	651.47	10641.23	0.00	105754.90	-40.17	0.00%
399	170.5	18988252	.00727	809.65	10487.45	0.00	104226.65	-198.35	0.00%
474	146.0	12794336	.00727	637.09	8980.46	0.00	89249.80	-25.79	0.00%
209	147.3	61575700	.00727	3080.80	8937.40	0.00	88821.89	-2469.56	0.00%
476	122.0	10659601	.00727	634.02	7504.22	0.00	74578.60	-22.72	0.00%
408	1.9.6	10898531	.00727	635.27	7519.69	0.00	72744.70	-23.97	0.00%
424	118.0	13804876	.00727	850.52	7258.15	0.00	72133.40	-239.22	0.00%
275	106.5	10255602	.00727	687.17	6e78.84	0.00	6e826.05	-75.87	0.00%
301	91.0	10940580	.00727	874.04	5597.41	0.00	55635.30	-262.74	0.00%
	98147.1	4460658996	.00727 Mn	363.38 Mn	6037031.20	0 Mn	59997552.79	247.92 Mn	5..18%

APPENDIX 5 A

50/50 COST-SHARE GRANT

BY

PERCENT AID REQUIRED

TO FUND

ESTIMATED NEED MODEL

APPENDIX B4

50-50 COST SHARE GRANT DATA BY PERCENT AID REQUIRED TO FUND THE ESTIMATED NEED MODEL HIGH TO LOW

USD	FTE	AV 1967	State Mean Levy	Revenue under Mn Levy	Required Revenue to Fund AFM	Pct Aid @ AFM	Req. Revenue to Fund Rpt Est. Need	EFF aid to District @ Need	Percent Aid under Need Mode
263	1803.0	16225664	.00727	65.42	110902.53	0.0000	1918932.90	499.44	46.93%
475	6557.7	61729817	.00727	68.43	403364.13	0.0000	6979360.11	497.93	46.73%
469	1461.5	15222944	.00727	75.62	89896.86	0.0000	1555474.45	494.34	46.48%
230	1213.5	12795266	.00727	76.72	74550.88	0.0000	1290463.75	493.79	46.42%
394	1281.3	13543104	.00727	78.67	75841.93	0.0000	1312281.90	492.81	46.32%
434	1215.2	14436826	.00727	86.45	74746.95	0.0000	1293837.36	485.93	45.74%
499	704.5	4855130	.00727	49.90	43333.79	.0000	750260.55	281.73	45.92%
252	1671.8	25957425	.00727	92.15	101602.22	0.0000	1758010.74	486.07	45.67%
458	1150.6	14656197	.00727	92.60	70773.41	0.0000	1224083.56	485.65	45.68%
262	1882.0	24966380	.00727	96.45	115761.82	0.0000	2003012.60	483.92	45.47%
261	3117.6	41372660	.00727	96.47	191775.88	0.0000	3318274.54	483.91	45.47%
266	1740.1	23585193	.00727	98.54	107033.55	0.0000	1851986.43	482.88	45.37%
202	3836.1	50148939	.00727	100.79	235958.51	0.0000	4082761.23	481.79	45.27%
464	1251.0	17660023	.00727	102.74	76949.01	0.0000	1331469.30	480.78	45.17%
367	1696.9	15712699	.00727	104.23	67414.96	0.0000	1166472.80	480.04	45.11%
402	1813.5	26096927	.00727	104.62	111548.36	0.0000	1930108.35	479.84	45.09%
453	4263.3	62118557	.00727	106.01	262052.60	0.0000	4533918.00	479.15	45.02%
500	22131.4	326875449	.00727	107.38	1361302.41	0.0000	23554449.02	478.46	44.96%
503	1957.5	29621570	.00727	110.01	120405.82	0.0000	2083867.25	477.14	44.83%
204	2078.0	31441142	.00727	110.26	127510.23	0.0000	2206293.90	477.02	44.82%
385	1884.0	28668817	.00727	110.62	115884.84	0.0000	2005141.21	476.84	44.80%
250	2939.0	44687589	.00727	111.68	179932.59	0.0000	3114143.73	476.31	44.75%
348	1039.0	15866831	.00727	115.22	61903.89	0.0000	1071117.79	474.54	44.59%
291	2138.5	34853026	.00727	116.95	131354.69	0.0000	2272813.65	473.61	44.50%
322	1176..	19088197	.00727	117.96	72241.91	0.0000	1251723.23	473.17	44.46%
267	1388.5	22491285	.00727	118.19	85199.98	0.0000	1472459.35	473.06	44.45%
491	783.2	7467529	.00727	69.32	48174.68	0.0000	478770.16	276.99	44.53%
506	1605.1	26801962	.00727	121.39	98729.70	0.0000	1706807.98	471.45	44.31%
257	1746.0	29248558	.00727	121.79	107396.46	0.0000	1856267.60	471.26	44.29%
450	3226.5	54215264	.00727	122.16	198462.01	0.0000	3433968.95	471.07	44.26%
385	1564.0	26682189	.00727	124.03	96201.64	0.0000	1664565.20	470.14	44.17%
234	2046.5	35288463	.00727	125.36	125880.21	0.0000	2176069.95	469.47	44.11%
373	3035.7	52372852	.00727	126.86	186725.91	0.0000	3230695.81	468.72	44.04%
203	964.0	9785527	.00727	73.80	59295.64	0.0000	569291.29	268.75	43.96%
253	12139.6	216122462	.00727	129.48	746706.80	0.0000	12920176.38	467.44	43.92%
445	2765.6	49707764	.00727	133.30	170112.06	0.0000	2943425.08	465.50	43.74%
265	1654.7	34073587	.00727	133.56	114382.60	0.0000	1973957.21	465.37	43.73%
465	1326.5	25662961	.00727	134.67	88283.61	0.0000	1475651.55	464.82	43.67%
337	768.1	5203445	.00727	77.64	47245.63	0.0000	469589.53	266.85	43.65%
253	4460.5	82945104	.00727	135.19	274365.35	0.0000	4747313.15	464.56	43.65%
486	462.9	5260115	.00727	79.52	29559.16	0.0000	293974.17	265.89	43.61%
221	1656.2	31601966	.00727	138.72	101872.66	0.0000	1762698.66	462.79	43.48%
409	1677.1	32276259	.00727	139.92	103156.42	0.0000	1784937.53	462.19	43.43%
479	2567.4	57472165	.00727	140.80	162524.77	0.0000	3138283.82	461.75	43.39%

416	1024.0	19888813	.00727	141.20	62956.24	0.0000	1039843.23	461.55	[illegible]
305	6675.8	130025748	.00727	141.60	410625.46	0.0000	7105058.94	461.35	43.35%
368	1442.6	28356915	.00727	142.91	58754.35	0.0000	1535359.18	460.70	43.29%
446	2343.8	46610250	.00727	144.55	144167.14	0.0000	2494506.84	459.86	43.21%
413	1945.0	38690813	.00727	144.77	119513.93	0.0000	2067934.90	459.77	43.20%
437	3319.6	66379379	.00727	145.37	204158.60	0.0000	3533050.25	459.46	43.17%
101	1104.5	22376356	.00727	147.28	67937.79	0.0000	1175519.35	458.51	43.08%
495	2017.0	41954725	.00727	151.22	124065.67	0.0000	2146693.10	456.54	42.90%
357	674.0	8068652	.00727	87.03	41457.74	0.0000	412016.20	262.13	42.88%
313	2145.5	45166262	.00727	153.05	131969.70	0.0000	2283455.65	455.63	42.81%
353	5348.6	123846961	.00727	153.95	[illegible]59747.39	0.0000	6224664.98	455.18	42.77%
338	460.9	5639540	.00727	88.48	28349.96	0.0000	281748.17	261.41	42.76%
429	382.5	4662137	.00727	88.61	23527.58	0.0000	233522.25	261.34	42.75%
505	859.6	10517006	.00727	89.05	52837.09	0.0000	525106.73	261.14	42.72%
243	567.5	7245186	.00727	89.66	36137.12	0.0000	359138.75	260.82	42.67%
379	1561.6	33961009	.00727	158.10	96054.02	0.0000	1662010.58	453.10	42.57%
493	1231.5	27330226	.00727	161.34	75749.57	0.0000	1310655.45	451.48	42.42%
340	715.5	9143616	.00727	92.91	44010.40	0.0000	437385.15	259.20	42.40%
443	4120.1	91821236	.00727	162.02	253427.35	0.0000	4385022.43	451.14	42.39%
465	2273.1	50910359	.00727	162.63	139818.38	0.0000	2419260.33	450.74	42.35%
309	1472.5	33118199	.00727	163.51	90573.47	0.0000	1567181.75	450.39	42.32%
308	4897.5	111820437	.00727	166.00	301232.92	0.0000	5212196.59	449.15	42.20%
501	14181.7	325760905	.00727	167.00	872316.37	0.0000	15093563.31	448.65	42.15%
344	412.0	5458977	.00727	96.33	25342.12	0.0000	251855.60	257.49	42.12%
396	685.2	9134452	.00727	96.92	42146.65	0.0000	418862.76	257.19	42.07%
323	1354.4	31535351	.00727	169.27	83309.14	0.0000	1441487.92	447.51	42.05%
345	3374.5	78700961	.00727	169.55	207565.49	0.0000	3591460.35	447.37	42.03%
439	399.0	5411534	.00727	98.60	24542.49	0.0000	243908.70	256.35	41.94%
447	640.5	8766787	.00727	99.51	39397.15	0.0000	391537.65	255.90	41.86%
454	342.0	4709609	.00727	100.11	21036.42	0.0000	209064.60	255.59	41.81%
348	[illegible]	12667100	.00727	101.31	56476.48	0.0000	561295.66	255.50	41.80%
489	3266.1	80371787	.00727	178.23	200897.81	0.0000	3476110.23	443.03	[illegible]
249	421.5	[illegible]	.00727	104.96	25864.95	0.0000	[illegible]	[illegible]	[illegible]
415	1103.1	27654377	.00727	182.95	67867.15	0.0000	1176886.43	441.67	[illegible]
335	465.5	6795238	.00727	106.13	28632.93	0.0000	284560.15	252.89	[illegible]
473	1205.0	30702048	.00727	185.20	74119.55	0.0000	1282481.50	439.82	[illegible]
497	7639.6	195279705	.00727	185.53	469911.80	0.0000	8130626.28	439.23	[illegible]
229	6595.0	168667464	.00727	185.93	405658.45	0.0000	7019058.50	439.18	41.27%
259	43366.5	1110929480	.00727	186.23	2667596.44	0.0000	46157094.55	439.04	41.25%
372	601.0	8936539	.00727	108.10	36967.51	0.0000	367391.30	251.60	41.16%
505	312.0	4687727	.00727	109.23	19191.12	0.0000	190725.60	251.03	41.07%
480	3391.0	89626767	.00727	192.58	208580.41	0.0000	3609041.30	435.86	40.95%
428	3328.9	89728576	.00727	195.96	204760.64	0.0000	3542948.27	434.17	40.79%
336	887.5	15778108	.00727	112.56	54590.12	0.0000	542528.75	247.32	40.77%
457	5629.1	153976395	.00727	198.86	346245.94	0.0000	5991051.13	432.72	[illegible]
512	29068.1	796559111	.00727	199.22	1787973.83	0.0000	30937173.88	432.54	40.64%
315	1210.5	33328302	.00727	200.15	74457.85	0.0000	1288335.15	432.08	[illegible]
312	1123.5	31168521	.00727	201.62	69106.47	0.0000	1195741.35	431.24	[illegible]
289	667.7	18660544	.00727	116.07	41070.23	0.0000	408165.01	[illegible]	[illegible]
209	5206.8	144884706	.00727	202.30	320270.27	0.0000	5541597.24	431.00	40.50%
449	638.0	10408211	.00727	118.94	39243.38	0.0000	390009.40	246.13	40.27%
343	855.5	14095903	.00727	119.79	52621.81	0.0000	522967.15	245.76	40.20%
404	745.9	12327827	.00727	120.15	45880.31	0.0000	455968.67	245.58	40.17%
326	577.5	9570873	.00727	120.49	35522.03	0.0000	353025.75	245.41	[illegible]

487	560.6	9331237	.00727	121.01	34432.51	0.0000	342694.73	245.15	[illegible]
339	379.9	6551642	.00727	121.55	23367.65	0.0000	232232.57	244.33	[illegible]
352	1232.0	36033877	.00727	212.63	75760.32	0.0000	1311217.60	425.33	[illegible]
341	529.0	9367162	.00727	124.61	32535.79	0.0000	323377.71	243.38	[illegible]
342	451.5	8330351	.00727	125.78	29617.06	0.0000	294840.95	242.76	[illegible]
247	777.5	13523606	.00727	126.13	47947.34	0.0000	476508.35	242.59	[illegible]
425	295.5	5132198	.00727	126.29	18176.20	0.0000	180637.15	242.51	39.67%
288	495.0	8713964	.00727	127.21	30651.98	0.0000	304427.40	242.05	[illegible]
382	1324.0	40663939	.00727	223.28	81439.24	0.0000	1409138.20	423.51	[illegible]
461	781.0	13812733	.00727	128.58	48039.31	0.0000	477425.30	241.36	39.45%
287	726.5	13130677	.00727	131.40	44687.01	0.0000	444109.45	239.95	39.25%
433	645.7	11642302	.00727	131.49	39593.99	0.0000	393499.51	239.91	39.25%
463	360.0	6517166	.00727	131.61	22143.60	0.0000	220063.01	239.84	39.24%
456	329.5	6018134	.00727	132.78	20267.54	0.0000	201423.35	239.26	[illegible]
466	1162.0	[illegible]	.00727	234.75	67784.02	0.0000	1172858.60	414.76	[illegible]
436	834.7	14945119	.00727	135.03	49497.19	0.0000	491913.11	238.14	[illegible]
495	1092.6	35473062	.00727	236.03	67205.83	0.0000	1162654.12	414.13	[illegible]
421	378.5	7262025	.00727	139.48	23281.53	0.0000	231377.05	235.91	[illegible]
418	2288.3	77023974	.00727	244.71	140753.33	0.0000	2435437.69	409.80	38.50%
373	514.5	10000867	.00727	141.31	31646.90	0.0000	314513.85	234.99	38.44%
420	629.0	12260552	.00727	141.71	38689.79	0.0000	384507.70	234.80	38.41%
243	486.5	9627717	.00727	143.87	29924.61	0.0000	297397.45	233.71	[illegible]
[illegible]	766.5	14405468	.00727	148.23	43456.61	0.0000	431883.45	[illegible]	[illegible]
377	778.0	16125474	.00727	150.68	47854.73	0.0000	475591.43	230.31	[illegible]
440	718.0	15156597	.00727	153.46	44164.18	0.0000	438918.40	228.92	[illegible]
355	475.5	10184310	.00727	154.72	29432.53	0.0000	292507.05	228.28	[illegible]
373	1163.1	45884954	.00727	270.89	71536.13	0.0000	1237750.90	[illegible]	[illegible]
358	402.5	8809425	.00727	159.12	24757.77	0.0000	246048.25	226.39	[illegible]
504	455.0	10224768	.00727	162.30	28171.58	0.0000	279975.40	224.50	36.72%
333	558.0	12531644	.00727	163.27	34522.58	0.0000	341105.40	224.01	[illegible]
441	941.0	2187.724	.00727	168.98	57580.91	0.0000	575235.30	[illegible]	[illegible]
451	220.0	5137652	.00727	169.78	13532.20	0.0000	134486.00	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	.00727	169.80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
222	[illegible]	13180813	.00727	171.27	26449.33	0.0000	[illegible]	[illegible]	[illegible]
268	537.5	12705674	.00727	[illegible]	33061.62	0.0000	328573.73	219.74	[illegible]
278	310.0	7377076	.00727	173.00	19565.10	0.0000	187502.00	[illegible]	[illegible]
[illegible]	245.3	5930241	.00727	173.63	15272.93	0.0000	151785.79	218.33	[illegible]
205	682.0	16542019	.00727	174.20	41949.82	0.0000	416906.63	218.55	[illegible]
356	399.5	9711608	.00727	176.73	24573.24	0.0000	244214.35	217.25	[illegible]
307	334.0	8127226	.00727	176.90	20544.34	0.0000	204174.23	217.23	[illegible]
346	544.0	13271373	.00727	177.36	33461.44	0.0000	332547.23	216.97	[illegible]
387	386.0	9717134	.00727	182.07	23865.85	0.0000	237184.46	214.61	35.11%
464	891.0	22403318	.00727	182.80	54805.41	0.0000	544668.30	214.25	[illegible]
322	415.5	10607277	.00727	186.49	25434.38	0.0000	252772.55	212.40	[illegible]
327	710.8	[illegible]	.00727	186.62	43721.31	0.0000	434512.04	212.34	[illegible]
498	391.2	10093056	.00727	187.57	24062.71	0.0000	239140.56	211.87	[illegible]
333	[illegible]	4625851	.00727	189.57	10913.02	0.0000	108508.75	[illegible]	[illegible]
408	559.5	14102673	.00727	190.04	33154.64	0.0000	[illegible]	[illegible]	[illegible]
407	1232.7	52570307	.00727	333.63	75523.35	[illegible]	[illegible]	365.33	[illegible]
380	599.1	15265127	.00727	192.55	36544.49	[illegible]	[illegible]	209.37	[illegible]
258	621.0	16609438	.00727	194.76	38136.20	0.0000	379006.03	[illegible]	[illegible]
331	1098.7	51419011	.00727	340.30	67551.04	0.0000	1169346.41	362.15	[illegible]
251	660.2	18322952	.00727	195.84	41837.10	0.0000	415806.26	[illegible]	[illegible]
398	412.5	11411769	.00727	201.12	25372.88	0.0000	252161.25	205.09	[illegible]

410	596.7	16547315	.00727	201.61	36703.02	0.0000	364752.7.	[illegible]	33.5%
376	541.1	15007149	.00727	201.66	33283.06	0.0000	331774.43	204.82	33.5%
240	[illegible]	[illegible]	.00727	202.12	29627.37	0.0000	294453.21	204.59	33.47%
417	972.5	27121605	.00727	202.75	59518.47	0.0000	594459.25	204.33	33.42%
264	942.5	26858120	.00727	207.17	57975.17	0.0000	576250.25	[illegible]	33.35%
462	409.5	11708442	.00727	207.86	25158.34	0.0000	250227.35	201.72	33.30%
354	900.0	26257915	.00727	212.35	55357.00	0.0000	550170.00	199.45	32.65%
466	251.0	7410261	.00727	214.63	15437.31	0.0000	153456.23	195.33	32.44%
433	199.5	5904453	.00727	215.16	12271.24	0.0000	121954.35	195.07	32.40%
272	547.0	16303704	.00727	216.69	33645.97	0.0000	334321.10	197.31	32.25%
400	794.5	24118570	.00727	220.69	48867.69	0.0000	485677.65	195.30	31.95%
463	742.0	22721326	.00727	222.62	45640.42	0.0000	453584.61	194.34	31.79%
451	375.5	11525553	.00727	225.22	23115.46	0.0000	229726.54	[illegible]	31.74%
252	482.0	14525157	.00727	223.65	29647.52	[illegible]	294646.53	193.52	31.71%
509	215.5	6659026	.00727	225.97	13255.40	0.0000	131735.15	192.62	[illegible]
479	257.5	8011564	.00727	226.19	15838.82	0.0000	157409.75	192.55	31.50%
367	266.0	5402979	.00727	227.95	16484.68	0.0000	163828.40	[illegible]	31.36%
329	522.4	16406835	.00727	228.33	32132.82	0.0000	319345.12	191.49	31.33%
365	967.6	30396330	.00727	228.35	59517.08	0.0000	591493.88	191.46	31.32%
412	527.0	16625958	.00727	228.49	32538.75	0.0000	323377.79	191.41	31.31%
364	248.5	7852754	.00727	229.15	15265.23	0.0000	151908.05	191.07	31.26%
389	691.5	21804655	.00727	229.24	42534.17	0.0000	422713.75	191.03	31.25%
238	208.5	6559196	.00727	229.75	12824.88	0.0000	127456.35	190.77	31.21%
257	645.0	20389521	.00727	230.53	39550.93	0.0000	393065.90	190.32	31.14%
393	303.0	9611881	.00727	230.62	18637.52	0.0000	185225.93	190.34	[illegible]
442	378.1	12033023	.00727	231.37	23256.93	0.0000	231132.52	189.77	[illegible]
323	711.5	22655326	.00727	231.80	43764.35	0.0000	434939.95	189.75	31.04%
488	336.5	10422576	.00727	232.07	20083.01	0.0000	199589.45	189.61	31.02%
405	750.1	24012707	.00727	232.73	46138.65	0.0000	458536.13	189.28	30.96%
448	386.5	12565908	.00727	235.36	23773.61	0.0000	236267.45	187.47	30.67%
[illegible]	301.0	9793442	.00727	236.54	18514.51	0.0000	[illegible]	187.38	30.65%
273	790.0	25426604	.00727	236.99	47977.80	0.0000	476814.30	187.16	30.62%
427	625.5	19818703	.00727	237.96	37244.31	0.0000	[illegible]	186.57	30.54%
256	535.0	[illegible]	.00727	238.22	[illegible]	0.0000	[illegible]	[illegible]	[illegible]
[illegible]	261.5	8678559	.00727	239.30	[illegible]	0.0000	[illegible]	[illegible]	[illegible]
239	642.5	21345287	.00727	241.53	39520.17	0.0000	392759.25	184.89	30.24%
[illegible]	472.5	15939619	.00727	245.25	29065.47	0.0000	288859.25	[illegible]	[illegible]
392	475.5	16147636	.00727	246.88	29248.50	0.0000	290673.15	182.21	29.81%
482	403.5	13792758	.00727	248.51	24819.23	0.0000	246659.55	181.40	29.67%
162	575.0	17884212	.00727	247.47	35552.78	0.0000	353331.40	180.91	29.59%
212	203.5	6991725	.00727	249.72	12517.28	0.0000	124399.55	180.76	29.57%
266	506.0	17447915	.00727	250.68	31124.06	0.0000	309317.80	180.31	29.50%
366	559.0	19598346	.00727	254.43	34445.63	0.0000	342328.00	178.44	29.19%
277	419.0	14668970	.00727	254.52	25772.69	0.0000	256134.70	178.39	29.18%
419	384.5	13469367	.00727	254.67	23657.59	0.0000	235044.85	178.31	29.17%
326	288.0	[illegible]	.00727	259.02	17714.88	0.0000	176054.40	176.14	28.81%
255	202.0	7193479	.00727	259.07	12425.02	0.0000	[illegible]	[illegible]	28.81%
381	251.5	9115444	.00727	263.50	15467.75	0.0000	153741.95	[illegible]	28.45%
324	168.0	6117627	.00727	264.73	10335.65	0.0000	102698.40	173.22	28.35%
245	319.5	11657231	.00727	264.80	19652.44	0.0000	195310.35	173.25	28.34%
426	259.0	9465551	.00727	265.69	15931.09	0.0000	158326.79	172.80	28.27%
310	516.0	19147276	.00727	269.77	31739.16	0.0000	315430.35	170.77	27.93%
423	426.0	15939512	.00727	272.02	26295.26	0.0000	260413.80	169.64	27.75%
355	552.1	20938562	.00727	275.72	33959.67	0.0000	337498.72	167.79	27.45%

282	446.5	17021619	.00727	276.90	27488.82	0.0000	273189.97	157.21	27.35%
279	158.5	7587161	.00727	277.55	12209.75	0.0000	121348.05	166.71	27.27%
294	532.5	22945567	.00727	285.42	35529.57	0.0000	356182.25	162.44	26.57%
361	755.5	38843157	.00727	286.54	60615.10	0.0000	602456.15	162.33	26.53%
208	607.5	24812510	.00727	290.95	37567.32	0.0000	373524.75	160.13	26.21%
431	691.0	27659764	.00727	291.01	42595.41	0.0000	422408.30	160.15	26.20%
347	376.7	15166857	.00727	291.55	23293.84	0.0000	231497.31	159.88	26.15%
306	657.1	27173599	.00727	300.64	40419.22	0.0000	401685.23	155.33	25.41%
224	403.4	16741572	.00727	301.71	24813.13	0.0000	246598.42	154.79	25.32%
359	212.5	8841247	.00727	302.47	13070.38	0.0000	129901.25	154.41	25.26%
349	253.5	11759551	.00727	307.46	17458.08	0.0000	173333.55	151.92	24.85%
47.	159.5	6865305	.00727	313.06	9810.84	0.0000	97532.35	149.12	24.39%
293	321.5	13257096	.00727	313.42	19713.95	0.0000	195921.65	148.94	24.36%
459	254.5	12266609	.00727	314.31	17465.94	0.0000	173519.20	148.65	24.32%
397	294.5	12842128	.00727	317.02	18114.69	0.0000	180127.85	147.[illegible]	24.07%
241	322.0	14169166	.00727	319.79	19806.22	0.0000	196838.60	145.75	23.84%
298	401.0	16050753	.00727	327.60	24635.51	0.0000	245131.30	141.75	23.19%
334	265.0	11967894	.00727	328.33	16300.15	0.0000	161994.50	141.49	23.15%
350	427.0	19710461	.00727	334.02	26387.79	0.0000	262247.70	138.64	22.68%
254	546.5	25133780	.00727	338.06	33246.15	0.0000	330407.65	136.62	22.35%
231	504.5	25635372	.00727	340.53	31037.95	0.0000	308461.92	135.39	22.15%
223	384.5	18076945	.00727	341.93	23650.57	0.0000	235044.95	134.73	22.04%
455	152.5	7195535	.00727	343.17	9380.27	0.0000	93223.25	134.07	21.93%
254	802.0	38090956	.00727	345.29	49331.02	0.0000	490262.63	133.00	21.75%
383	352.5	16940246	.00727	349.38	21652.27	0.0000	215483.25	130.76	21.42%
398	141.5	6818879	.00727	350.32	8753.66	0.0000	86498.95	130.49	21.35%
213	123.0	6173979	.00727	350.66	7873.28	0.0000	78246.40	130.32	21.32%
275	119.5	5762856	.00727	351.03	7341.22	0.0000	72959.65	130.13	21.29%
403	352.0	17145671	.00727	354.12	21651.52	0.0000	215177.60	128.59	21.04%
422	430.0	21407373	.00727	361.95	26449.30	0.0000	262859.00	124.68	20.40%
371	[illegible]	10651676	.00727	363.88	12947.85	0.0000	128678.65	121.21	19.83%
492	234.0	11573481	.00727	368.59	14393.34	0.0000	143044.30	121.21	19.83%
316	148.5	7261365	.00727	370.41	8765.17	0.0000	87113.25	120.45	19.70%
292	210.5	10759041	.00727	371.58	12947.35	0.0000	128675.65	119.85	19.60%
427	565.0	28907853	.00727	372.25	34633.15	0.0000	344161.90	119.60	19.47%
221	172.5	8866507	.00727	373.68	10613.46	0.0000	105449.25	118.81	19.44%
204	265.0	10645149	.00727	377.51	12687.55	0.0000	125316.50	116.89	19.12%
274	475.5	24746636	.00727	378.36	29243.30	0.0000	290573.15	116.47	19.05%
271	406.0	21274162	.00727	380.94	24973.06	0.0000	248187.80	115.13	18.84%
291	147.5	7945040	.00727	391.60	9072.73	0.0000	90166.75	109.85	17.97%
270	489.0	26603844	.00727	395.52	30078.39	0.0000	298925.70	107.89	17.65%
477	220.0	11989562	.00727	396.20	13532.20	0.0000	134486.00	107.55	17.59%
511	234.0	12719652	.00727	401.39	14393.34	0.0000	143044.20	104.95	17.17%
482	367.0	20346568	.00727	403.05	22574.17	0.0000	224347.10	104.12	17.03%
214	1530.1	149167192	.00727	722.92	92271.15	0.0000	1596555.43	170.59	16.14%
458	355.5	23917817	.00727	425.87	21762.24	0.0000	216277.94	95.72	14.54%
326	227.5	13756829	.00727	439.61	12993.52	0.0000	129173.75	85.54	14.14%
302	224.5	12492119	.00727	444.10	12573.50	0.0000	125011.55	83.61	13.68%
488	560.0	34898913	.00727	446.57	34445.60	0.0000	342325.00	82.35	13.47%
217	73.5	4572663	.00727	452.95	4520.95	0.0000	44930.55	79.21	12.96%
225	167.0	10773754	.00727	462.46	10395.19	0.0000	103309.70	73.92	12.09%
444	386.0	25252713	.00727	475.61	22742.86	0.0000	225961.30	67.34	11.02%
314	149.5	10355999	.00727	489.01	9195.74	0.0000	91389.35	61.14	10.00%
308	322.5	21912017	.00727	493.95	19836.97	0.0000	197144.25	58.57	9.60%

236	124.0	8466891	.00727	496.41	7627.24	0.0000	75531.20	57.45	9.40%
502	159.0	13071900	.00727	502.62	11625.39	0.0000	115525.70	54.24	[illegible]
255	314.0	21866431	.00727	506.27	19314.14	0.0000	191945.22	53.5[illegible]	[illegible]
354	222.5	15509823	.00727	506.77	15625.96	0.0000	156314.25	52.26	[illegible]
227	243.5	17112532	.00727	510.91	14977.65	0.0000	148651.55	[illegible]	[illegible]
496	152.6	10699755	.00727	511.76	9349.52	0.0000	92917.60	49.77	[illegible]
103	225.5	16082626	.00727	518.50	13870.50	0.0000	137845.15	46.40	7.53%
219	203.5	14774257	.00727	527.81	12517.28	0.0000	124399.55	41.75	6.53%
395	364.0	26653569	.00727	532.34	22389.64	0.0000	222513.20	39.45	[illegible]
303	423.5	31364357	.00727	542.26	25864.95	0.0000	257051.65	34.52	[illegible]
242	108.5	8207005	.00727	549.91	6673.84	0.0000	66326.05	30.73	[illegible]
216	596.0	45462536	.00727	554.55	36659.96	0.0000	364334.50	28.37	[illegible]
228	139.0	10641719	.00727	556.58	2549.89	0.0000	54970.[illegible]	27.36	4.45%
234	123.5	9767700	.00727	574.99	7596.48	0.0000	75495.55	15.16	2.97%
251	336.7	30626428	.00727	661.28	20710.42	0.0000	205824.71	-24.99	[illegible]
259	145.3	61573700	.00727	3080.60	5937.40	0.0000	88521.89	-1234.75	[illegible]
210	697.5	172138611	.00727	1394.37	55205.22	0.0000	545641.75	-39[illegible]	[illegible]
215	653.0	138875950	.00727	1473.94	42134.35	0.0000	418740.50	-431.32	0.00%
216	254.5	44148764	.00727	1261.15	15654.30	0.0000	155575.85	-324.92	0.00%
217	216.0	57632171	.00727	1946.46	13256.16	0.0000	132043.80	-667.57	0.00%
220	237.7	28655649	.00727	876.43	14620.75	0.0000	145336.01	-132.56	0.00%
226	401.5	58155719	.00727	1053.03	24696.26	0.0000	245436.95	-220.37	0.00%
244	765.6	493247327	.00727	4633.79	47092.06	0.0000	468011.22	-2036.24	0.00%
269	186.0	15664436	.00727	614.25	11563.88	0.0000	114924.40	-1.48	0.00%
275	108.5	10255602	.00727	687.17	6673.84	0.0000	66326.05	-87.94	0.00%
299	208.5	18069184	.00727	630.04	12824.83	0.0000	127456.05	-9.87	0.00%
301	91.0	10940580	.00727	874.04	5597.41	0.0000	55625.30	-131.37	0.00%
321	1009.1	224295706	.00727	1615.95	62069.74	0.0000	1073985.15	-275.52	0.00%
322	475.5	44532540	.00727	680.87	29248.00	0.0000	290673.15	-84.78	0.00%
332	307.0	34561228	.00727	818.44	18883.57	0.0000	187669.19	-105.57	0.00%
351	282.0	26169374	.00727	674.62	17345.82	0.0000	172386.63	-[illegible]	0.00%
362	780.3	101714138	.00727	947.66	47996.25	0.0000	476997.59	-168.19	0.00%
365	605.5	[illegible]	.00727	1380.[illegible]	37244.31	0.0000	370142.15	-359.[illegible]	0.00%
374	490.0	4195[illegible]	.00727	622.86	30139.90	0.0000	299537.80	-5.78	0.00%
399	170.5	18989252	.00727	809.65	10487.45	0.0000	104226.25	-99[illegible]	0.00%
401	173.0	15502771	.00727	651.47	10641.23	0.0000	105754.93	-20.39	0.00%
424	118.0	13804876	.00727	853.52	7258.18	0.0000	72135.40	-119.60	0.00%
452	493.6	65907958	.00727	970.73	30361.34	0.0000	301737.68	-179.71	0.00%
468	119.0	13599581	.00727	635.27	7319.69	0.0000	72744.70	-11.99	0.00%
474	146.0	12794386	.00727	637.09	5950.46	0.0000	59249.90	-12.89	0.00%
476	122.0	10639601	.00727	634.02	7504.22	0.0000	74578.60	-[illegible].36	0.00%
494	419.0	26453565	.00727	632.59	25772.69	0.0000	256134.79	-10.64	0.00%
507	382.0	73310651	.00727	1395.21	23496.82	0.0000	233516.60	-591.95	0.00%
	159936.5	3693396875	.00727 Mn	141.12 Mn	9537694.12	0.0000 Mn	165797568.55	365.33 [illegible]	41.92% [illegible]

APPENDIX 5 B

50/50 COST-SHARE GRANT

BY

PERCENT AID REQUIRED

TO FUND

RURAL AND URBAN

ESTIMATED NEED MODEL

APPENDIX 5B

50/50 COST SHARE GRANT DATA BY PERCENT AID REQUIRED TO FUND THE ESTIMATED NEED MODEL: HIGH TO LOW [illegible] URBAN RURAL

USD	FTE	AV 1987	State Mean Levy	Revenue Under Mn Levy	Required Revenue to Fund APM	Pct Aid % APM	Req. Revenue to Fund R/U Est. Need	BPP aid to District @ Need	Percent Aid under Need Model
urban districts arrayed by percent aid under 50/50 cost-share aid model.									
259	43366.5	1118929480	.00727	186.23	2667576.44	0.0000	46157094.55	439.04	41.25%
512	29068.1	796559111	.00727	199.22	1787775.83	0.0000	30737176.83	452.54	40.64%
500	22131.4	526875449	.00727	197.32	1361202.41	0.0000	23554449.02	472.42	44.92%
501	14151.7	325736795	.00727	167.00	872316.37	0.0000	15093583.81	442.65	42.15%
233	12139.6	216122432	.00727	129.43	746706.60	0.0000	12920176.25	467.44	43.92%
497	7659.6	195279705	.00727	185.63	469911.60	0.0000	8130526.29	459.23	41.27%
305	6675.2	130025743	.00727	141.60	419626.46	0.0000	7105055.74	461.55	43.35%
229	6575.0	166607464	.00727	185.92	405658.45	0.0000	7019058.53	429.16	41.27%
475	6557.7	61729517	.00727	68.43	403364.13	0.0000	6979360.11	497.75	46.76%
383	5842.6	125846961	.00727	153.95	359747.39	0.0000	6224654.75	455.16	42.77%
457	5629.1	153976395	.00727	198.86	346245.94	0.0000	5991051.12	432.72	41.66%
260	5236.8	144864706	.00727	202.50	320270.27	0.0000	5541597.24	431.05	40.57%
308	4897.3	111620437	.00727	166.30	301232.92	0.0000	5212196.37	449.15	42.27%
253	4460.5	82945164	.00727	125.19	274365.35	0.0000	4747313.15	464.56	43.65%
453	4260.0	62118557	.00727	106.01	262032.69	0.0000	4533918.00	479.15	45.02%
443	4120.1	91821236	.00727	162.02	253427.35	0.0000	4385022.43	451.14	42.59%
202	3836.1	53148939	.00727	100.73	235958.51	0.0000	4082761.23	481.75	45.27%
480	3391.0	59826767	.00727	192.58	208580.41	0.0000	3609041.50	435.36	41.95%
345	3374.5	[illegible]	.00727	169.55	207565.47	0.0000	3591480.55	447.37	43.13%
428	3328.9	59725576	.00727	195.96	204760.64	0.0000	3542948.27	434.17	41.79%
437	3319.6	66379379	.00727	145.37	204188.60	0.0000	3533050.28	459.46	43.17%
489	[illegible]	50071787	.00727	178.22	200897.31	0.0000	3476113.22	445.35	41.62%
450	3226.5	54215264	.00727	122.16	198462.11	0.0000	3433962.55	471.07	44.26%
261	3117.5	41572600	.00727	96.47	191775.35	0.0000	3318274.54	483.91	45.47%
373	3035.7	52972852	.00727	126.26	186725.91	0.0000	3230895.51	462.72	44.54%
470	2967.4	57472165	.00727	140.90	182524.77	0.0000	3158263.32	461.75	43.39%
250	2909.0	44687539	.00727	111.68	178932.59	0.0000	3096048.70	476.31	44.75%
445	2765.6	59767734	.00727	133.30	170112.06	0.0000	2943428.08	465.51	43.74%
446	2343.8	46610259	.00727	144.55	144167.14	0.0000	2494596.34	459.36	43.21%
418	2288.5	77023974	.00727	244.71	140753.33	0.0000	2435437.69	409.30	38.50%
465	2272.1	50910359	.00727	162.83	139818.38	0.0000	2419260.35	450.74	42.35%
313	2145.5	45166262	.00727	153.05	131969.70	0.0000	2283455.65	455.63	42.81%
[illegible]	2135.5	34355026	.00727	116.95	131354.60	0.0000	2272812.65	473.68	44.51%
264	2073.0	31441142	.00727	110.26	127510.25	0.0000	2206271.90	477.02	44.82%
234	2046.5	35265462	.00727	125.36	125880.21	0.0000	2178084.75	459.47	44.11%
490	2017.0	41954725	.00727	151.22	124065.67	0.0000	2146695.10	456.54	42.91%
503	1957.5	29621570	.00727	110.01	120405.82	0.0000	2083367.25	477.14	44.81%
413	1943.0	38690813	.00727	144.77	119513.93	0.0000	2067934.93	459.77	43.21%
353	1884.0	28665217	.00727	110.62	115884.54	0.0000	2005141.26	475.54	44.37%
262	1882.0	24966380	.00727	96.45	115761.82	0.0000	2003012.60	483.92	45.47%
265	1854.7	34073587	.00727	133.56	114082.60	0.0000	1973957.21	465.37	43.73%

402	1813.5	26096927	.00727	104.62	111548.38	0.0000	1930105.05	479.54	45.09%
263	1803.0	16225664	.00727	65.42	110902.53	0.0000	1918952.96	499.44	46.75%
257	1746.0	29248558	.00727	121.79	107396.46	0.0000	1858267.90	471.26	44.22%
251	1740.1	23565193	.00727	96.54	107033.55	0.0000	1851988.43	482.53	45.27%
409	1677.1	32276259	.00727	137.92	103159.42	0.0000	1784957.53	462.19	43.42%
231	1656.2	31601966	.00727	138.72	101872.86	0.0000	1762698.62	462.79	43.45%
232	1651.8	20937425	.00727	92.15	101602.22	0.0000	1758010.74	486.97	45.67%
566	1605.1	26801962	.00727	121.39	98729.70	0.0000	1708307.93	471.45	44.33%
385	1564.0	26652188	.00727	124.03	96201.64	0.0000	1664565.29	470.14	44.17%
379	1561.6	33961009	.00727	158.10	96054.02	0.0000	1662010.83	453.10	42.57%
214	1500.1	149167172	.00727	722.92	92271.15	0.0000	1596556.43	170.67	16.04%
509	1472.5	33116199	.00727	163.51	90573.47	0.0000	1567181.75	450.39	42.32%
467	1461.5	15202744	.00727	75.62	89896.56	0.0000	1555474.45	494.34	46.45%
556	1442.6	28355915	.00727	142.91	88734.33	0.0000	1535359.12	460.71	43.29%
435	1386.5	25682951	.00727	134.67	85283.61	0.0000	1475651.95	464.52	43.67%
207	1383.5	22491285	.00727	118.19	85099.66	0.0000	1472459.35	473.12	44.45%
533	1354.4	31535351	.00727	169.27	83309.14	0.0000	1441487.92	447.51	42.05%
362	1324.0	40663939	.00727	223.28	81439.24	0.0000	1409133.20	420.51	39.51%
464	1251.0	17680023	.00727	102.74	76949.01	0.0000	1331439.30	480.78	45.17%
394	1233.0	13343104	.00727	78.67	75841.83	0.0000	1312281.90	492.61	46.30%
407	1232.7	56570507	.00727	333.63	75823.38	0.0000	1311962.61	363.33	34.13%
359	1232.0	36033877	.00727	212.63	75780.32	0.0000	1311217.60	425.83	40.01%
473	1231.5	27330226	.00727	161.34	75749.57	0.0000	1310685.45	451.46	42.42%
454	1215.2	14450326	.00727	86.45	74746.95	0.0000	1293337.36	488.93	45.94%
220	1212.5	12795266	.00727	76.72	74580.58	0.0000	1290463.75	493.79	46.40%
315	1210.5	33323302	.00727	200.13	74457.85	0.0000	1288335.15	432.08	40.60%
473	1205.0	30702043	.00727	185.23	74119.55	0.0000	1282481.50	439.53	41.30%
320	1176.1	19083197	.00727	117.96	72341.91	0.0000	1251723.23	473.17	44.46%
375	1163.0	43334964	.00727	270.59	71536.13	0.0000	1237730.90	396.70	37.27%
458	1150.6	14656197	.00727	92.60	70773.41	0.0000	1224583.56	485.65	45.63%
312	1123.5	31168521	.00727	201.82	69106.49	0.0000	1195741.05	431.24	40.52%
[illegible]	1104.5	22376556	.00727	147.22	67937.79	0.0000	1175519.35	458.5[illegible]	43.03%
466	1102.1	35533500	.00727	234.75	67784.12	0.0000	1172858.68	414.73	38.97%
4[illegible]3	1100.[illegible]	27664377	.00727	182.95	67667.15	0.0000	1170836.43	440.67	[illegible]
381	1098.7	51413011	.00727	340.20	67581.04	0.0000	1169346.41	362.03	34.02%
367	1096.1	15712899	.00727	104.23	67414.96	0.0000	1166472.82	480.04	4[illegible]
475	1092.6	35473062	.00727	236.05	67205.83	0.0000	1162854.19	414.13	38.9[illegible]
248	1037.0	16465831	.00727	115.22	63708.89	0.0000	1103507.72	474.54	44.59%
416	1024.0	19888313	.00727	141.20	62956.24	0.0000	1089843.20	461.55	43.37%
321	1009.1	224298706	.00727	1615.95	62069.74	0.0000	1073985.13	-275.82	0.02%

Rural districts arrayed by percent aid under 50/50 cost-share aid model.

499	704.5	4835130	.00727	49.90	43333.79	.0000	480661.35	283.73	45.91%
451	783.2	7467929	.00727	69.32	48174.63	0.0000	473773.16	270.99	44.33%
203	964.0	9765527	.00727	73.80	59295.64	0.0000	589293.20	258.75	43.96%
357	768.1	8203445	.00727	77.64	47245.33	0.0000	469539.53	260.33	43.25%
404	480.9	5266.15	.00727	79.52	29580.16	0.0000	293974.17	255.59	43.00%
357	674.0	6066052	.00727	87.03	41457.74	0.0000	412016.20	262.13	42.88%
338	460.9	5609540	.00727	88.48	28349.95	0.0000	281745.17	261.41	42.76%
429	382.5	4662137	.00727	98.61	23527.56	0.0000	233822.25	261.34	42.75%
503	859.0	10519006	.00727	89.03	52837.09	0.0000	525136.70	261.14	42.72%

340	587.5	7245186	.00727	89.66	36137.12	0.0000	359138.75	260.32	42.6%
340	715.5	9148616	.00727	92.91	44010.40	0.0000	437385.15	259.22	43.4%
344	412.0	5456977	.00727	96.53	25342.12	0.0000	251655.60	257.44	42.1%
346	665.2	9134452	.00727	96.52	42146.65	0.0000	418562.70	257.19	42.0%
439	399.0	5411534	.00727	95.60	24542.47	0.0000	243908.70	256.38	41.9%
447	640.5	8700787	.00727	99.51	39397.15	0.0000	391537.65	255.90	41.8%
454	342.0	4769605	.00727	100.11	21036.42	0.0000	209064.60	255.59	41.8%
348	918.2	12669100	.00727	100.31	56478.48	0.0000	561295.60	255.53	41.8%
249	429.5	6072170	.00727	104.58	25864.95	0.0000	257051.65	253.16	41.4%
335	465.5	6795236	.00727	106.13	26632.90	0.0000	264560.15	252.59	41.3%
372	601.0	8936539	.00727	108.10	36967.51	0.0000	367391.30	251.60	41.1%
505	312.0	4687727	.00727	109.23	19191.12	0.0000	190725.60	251.03	41.0%
336	937.5	13778108	.00727	112.86	54599.12	0.0000	542528.75	249.22	40.7%
229	667.7	10003544	.00727	116.37	41370.23	0.0000	403163.31	247.6.	40.5%
449	638.2	10468211	.00727	118.94	39245.26	0.0000	390005.40	246.16	40.2%
343	955.5	14095903	.00727	119.79	52621.81	0.0000	522967.15	245.70	40.1%
404	748.7	12327327	.00727	120.15	45589.31	0.0000	455968.67	245.55	40.1%
323	577.5	9570873	.00727	120.49	35522.03	0.0000	353025.75	245.4.	40.1%
487	560.6	9331237	.00727	121.01	34482.51	0.0000	342694.78	245.15	40.0%
339	379.5	6351642	.00727	121.55	23367.65	0.0000	232252.87	244.89	40.0%
341	529.0	9067162	.00727	124.61	32538.79	0.0000	323377.70	243.65	39.8%
342	481.5	8330651	.00727	125.78	29617.06	0.0000	294540.95	242.76	39.7%
247	779.5	13523666	.00727	126.13	47947.04	0.0000	476608.35	242.59	39.6%
425	295.5	5138193	.00727	126.29	18176.20	0.0000	180639.15	242.51	39.6%
288	498.0	8713564	.00727	127.21	30621.98	0.0000	304427.40	242.05	39.6%
461	781.0	13612783	.00727	128.58	48039.31	0.0000	477425.30	241.36	39.4%
287	726.5	13130877	.00727	131.46	44687.01	0.0000	444109.45	239.75	39.2%
450	648.7	11642302	.00727	131.49	39593.99	0.0000	393493.61	239.91	39.2%
462	360.0	6517166	.00727	131.61	22143.60	0.0000	220068.00	239.84	39.2%
456	329.5	6018134	.00727	132.78	20267.54	0.0000	201423.55	239.26	39.1%
426	804.7	14945119	.00727	135.62	49497.10	0.0000	491913.11	238.14	38.9%
421	378.5	7262025	.00727	139.48	23291.52	0.0000	231477.05	235.9.	38.5%
379	5.4.5	.1000257	.00727	141.31	31648.90	0.0000	314513.85	234.99	38.4%
422	629.0	12263552	.00727	141.71	38659.79	0.0000	384307.70	234.83	38.4%
243	486.5	9527717	.00727	143.27	29924.61	0.0000	297397.45	234.7.	38.3%
3.7	736.5	.4405403	.00727	148.29	43456.5.	0.0000	43.823.45	231.83	37.8%
377	773.0	16125474	.00727	150.68	47854.73	0.0000	475591.40	231.3.	37.7%
440	716.0	15156397	.00727	153.46	44164.18	0.0000	438913.40	228.92	37.4%
235	478.5	10184310	.00727	154.73	29482.53	0.0000	292507.05	228.28	37.3%
352	402.5	8609426	.00727	159.12	24757.77	0.0000	246048.25	226.09	36.9%
504	456.0	10224768	.00727	162.30	28171.58	0.0000	279975.40	224.50	36.7%
330	558.0	12531644	.00727	163.27	34322.58	0.0000	341105.40	224.01	36.6%
441	941.0	21871724	.00727	168.98	57880.91	0.0000	575233.30	221.16	36.1%
451	223.0	5137652	.00727	169.78	13832.29	0.0000	134486.00	220.76	36.0%
286	501.0	11701541	.00727	169.80	30816.51	0.0000	306261.30	220.75	36.0%
222	430.0	10130316	.00727	171.27	26449.59	0.0000	262859.00	221.0.	35.9%
266	537.5	12705674	.00727	171.82	33061.62	0.0000	328573.75	219.74	35.9%
278	8.0.0	7577076	.00727	.73.80	19068.10	0.0000	.67503.00	2.9.15	35.8%
41.	248.5	5930241	.00727	173.63	15272.93	0.0000	151735.75	2.8.23	35.8%
205	682.3	16342[illegible]	.00727	174.20	41949.82	0.0000	416906.60	218.85	35.7%
336	359.5	9711366	.00727	176.75	24575.24	0.0000	244214.35	217.35	35.5%
307	334.0	8127226	.00727	176.96	20544.34	0.0000	204174.20	217.20	35.5%
346	544.0	13271393	.00727	177.86	33461.44	0.0000	332547.20	216.97	35.4%
387	358.0	9717184	.00727	182.07	23865.58	0.0000	237184.40	2.4.61	35.1%

484	891.3	22403318	.00727	182.80	54805.41	0.0000	544668.30	214.25	38.05%
322	415.5	10607277	.00727	156.49	25434.38	0.0000	252772.55	212.41	34.73%
327	710.3	15246068	.00727	186.62	43721.31	0.0000	434512.04	212.14	34.74%
493	891.2	19093868	.00727	187.57	24062.71	0.0000	239141.56	211.57	34.65%
283	477.5	4628851	.00727	189.57	10915.02	0.0000	109505.75	210.37	34.49%
485	589.5	14102673	.00727	190.04	35184.64	0.0000	329796.38	211.63	34.46%
389	599.0	15865127	.00727	192.55	36844.49	0.0000	366168.70	209.37	34.25%
258	620.0	16609438	.00727	194.76	38136.20	0.0000	379006.00	208.27	34.07%
251	660.2	18322952	.00727	195.84	41839.10	0.0000	415836.26	207.75	33.98%
398	412.5	11411769	.00727	201.12	25372.88	0.0000	252161.25	205.89	33.68%
410	596.7	16547315	.00727	201.61	36703.02	0.0000	364762.71	204.85	33.50%
376	541.1	15009149	.00727	201.66	33283.06	0.0000	330774.43	204.22	33.51%
240	481.7	13391946	.00727	202.12	29627.37	0.0000	294463.21	204.59	33.47%
4.7	572.5	27121605	.00727	202.75	59618.47	0.0000	594459.25	204.22	33.42%
264	542.5	26853129	.00727	207.17	57978.17	0.0000	576150.25	202.01	33.15%
462	409.5	1.706442	.00727	207.86	25188.34	0.0000	250327.35	201.72	33.11%
364	900.0	26287915	.00727	212.35	55359.00	0.0000	550176.00	199.48	32.65%
456	251.0	7410261	.00727	214.63	15439.01	0.0000	153436.31	198.33	32.44%
433	199.5	5904453	.00727	215.16	12271.24	0.0000	121954.85	198.07	32.40%
272	547.0	16303704	.00727	216.69	33645.97	0.0000	334381.10	197.31	32.28%
403	774.5	24118579	.00727	220.65	48869.69	0.0000	485677.85	195.50	31.99%
468	742.0	22721326	.00727	222.62	45640.42	0.0000	453584.60	194.54	31.79%
481	375.8	11538558	.00727	223.22	23115.46	0.0000	229726.54	194.04	31.70%
252	482.6	14828157	.00727	223.65	29647.82	0.0000	294646.60	193.62	31.63%
369	215.5	6639020	.00727	223.97	13255.40	0.0000	131755.15	193.66	31.63%
479	257.5	8011564	.00727	226.19	15838.82	0.0000	157409.75	192.55	31.50%
369	266.0	8402979	.00727	227.95	16464.68	0.0000	163625.40	191.66	31.36%
327	522.4	16406838	.00727	228.33	32152.82	0.0000	319643.12	191.47	31.32%
365	967.6	30396330	.00727	228.38	59517.08	0.0000	591493.85	191.46	31.32%
412	529.0	16625938	.00727	228.49	32558.79	0.0000	323677.70	191.41	31.31%
384	248.5	7832754	.00727	229.15	15295.23	0.0000	151906.65	191.07	31.26%
389	69.5	21894851	.00727	229.24	42534.17	0.0000	422713.95	191.03	31.25%
235	202.5	6389176	.00727	229.75	12524.63	0.0000	124461.38	190.77	31.21%
337	648.0	20334952	.00727	230.53	39551.93	0.0000	393038.50	190.35	31.14%
393	303.0	9511851	.00727	230.62	18637.58	0.0000	185223.90	190.34	31.14%
442	378.1	11868020	.00727	231.37	23256.93	0.0000	231132.58	189.97	31.08%
325	711.5	22385826	.00727	231.50	43764.36	0.0000	434959.95	189.78	31.04%
488	326.5	10422576	.00727	232.07	20068.01	0.0000	199569.45	189.6.	31.02%
405	756.1	24012707	.00727	232.73	46138.65	0.0000	458536.15	189.25	30.96%
448	386.5	12363508	.00727	236.36	23773.61	0.0000	236267.45	187.47	30.67%
360	301.0	9793442	.00727	236.54	18514.51	0.0000	184061.30	187.38	30.66%
275	780.0	25426604	.00727	236.99	47977.80	0.0000	476814.00	187.16	30.62%
427	605.5	19818703	.00727	237.96	37244.31	0.0000	370142.15	186.67	30.54%
256	338.0	10912236	.00727	238.23	20482.83	0.0000	203562.90	186.55	30.52%
311	263.5	8673539	.00727	239.30	16297.89	0.0000	161077.55	186.09	30.45%
239	642.5	21345287	.00727	241.53	39520.17	0.0000	392760.25	184.89	30.24%
318	472.5	15939617	.00727	245.25	29063.47	0.0000	288839.25	183.02	29.93%
392	475.5	16147636	.00727	246.85	29242.00	0.0000	290678.15	181.2.	29.8.%
432	403.5	13792756	.00727	246.91	24819.25	0.0000	246657.55	181.40	29.67%
102	576.0	19834212	.00727	249.47	35552.78	0.0000	353331.42	181.91	29.59%
212	204.5	6991725	.00727	249.76	12517.33	0.0000	124399.55	180.76	29.57%
296	510.0	17447915	.00727	250.66	31124.06	0.0000	309317.50	180.31	29.50%
366	560.0	19596346	.00727	254.46	34445.60	0.0000	342329.00	178.44	29.19%
297	419.0	14666970	.00727	254.52	25772.69	0.0000	256134.70	178.39	29.18%

419	384.5	13469387	.00727	254.67	23650.59	0.0000	235044.85	173.31	29.17%
366	288.0	10261054	.00727	259.02	17714.88	0.0000	176054.40	173.14	28.81%
265	202.0	7196490	.00727	259.07	12425.02	0.0000	123482.60	173.11	28.81%
364	251.5	9115444	.00727	263.50	15469.76	0.0000	153741.95	173.90	28.49%
324	168.0	6117627	.00727	264.78	10333.68	0.0000	102698.40	173.38	28.35%
246	319.5	11637231	.00727	264.80	19652.44	0.0000	195310.35	173.38	28.34%
426	259.2	9465551	.00727	265.69	15931.09	0.0000	158326.76	172.80	28.21%
510	516.0	19147276	.00727	269.77	31739.16	0.0000	315430.80	170.77	27.93%
423	426.0	15939512	.00727	272.92	26293.26	0.0000	261418.80	169.64	27.75%
355	552.1	20938562	.00727	275.72	33959.67	0.0000	337498.73	167.79	27.45%
262	446.9	17021619	.00727	276.90	27488.82	0.0000	273189.57	167.20	27.35%
279	198.5	7587161	.00727	277.88	12209.73	0.0000	121348.05	166.7.	27.27%
394	582.5	22948867	.00727	286.42	35829.57	0.0000	356062.25	162.44	26.57%
361	988.5	38543157	.00727	286.54	63618.13	0.0000	632486.15	162.38	26.56%
296	607.5	243.2319	.00727	290.95	37367.32	0.0000	371364.75	160.13	26.21%
43.	691.0	27059661	.00727	291.01	42503.41	0.0000	422408.39	160.10	26.21%
347	378.7	15156857	.00727	291.55	23293.54	0.0000	231499.31	159.86	26.1.%
306	657.1	27173399	.00727	300.64	40418.22	0.0000	401685.23	.55.33	25.4.%
224	406.4	16741572	.00727	301.71	24813.13	0.0000	246598.42	154.79	25.32%
359	212.5	8841247	.00727	302.47	13070.88	0.0000	129901.25	154.41	25.26%
347	288.5	11989551	.00727	307.46	17438.08	0.0000	173303.55	151.92	24.85%
471	159.5	6568503	.00727	313.06	9810.84	0.0000	97502.35	149.12	24.39%
295	320.5	13817096	.00727	313.42	19713.95	0.0000	195921.65	148.94	24.35%
457	284.0	12266609	.00727	314.01	17468.84	0.0000	173609.20	148.65	24.32%
397	294.5	12842128	.00727	317.02	18114.69	0.0000	180027.85	147.14	24.07%
241	322.0	14.649ee	.00727	319.79	19810.22	0.0000	196838.60	.45.75	23.84%
295	45..0	18060733	.00727	327.80	24ee5.51	0.0000	245161.30	141.75	23.19%
334	265.0	11967894	.00727	328.33	16300.15	0.0000	161994.50	141.47	23.15%
350	429.0	19710461	.00727	334.02	26387.79	0.0000	262247.70	138.64	22.68%
284	540.5	25133760	.00727	338.06	33246.15	0.0000	330407.65	136.62	22.35%
221	504.6	23635872	.00727	340.53	31037.95	0.0000	308461.98	135.39	22.15%
233	384.5	18079343	.00727	341.88	23650.59	0.0000	235044.85	134.73	22.04%
455	.82.5	7195836	.00727	345.17	9880.27	0.0000	98223.25	134.37	21.98%
284	802.0	38091758	.00727	345.29	49331.02	0.0000	490362.60	133.3.	21.78%
385	352.5	16940246	.00727	349.38	21622.27	0.0000	214983.25	131.96	21.42%
349	.41.5	6818399	.00727	350.22	8703.ee	0.0000	86498.95	131.49	21.33%
218	128.0	6178979	.00727	350.ee	7973.28	0.0000	78246.40	131.33	21.33%
295	119.5	57e285e	.00727	351.03	7341.22	0.0000	72956.65	131..3	21.29%
405	352.0	17145e71	.00727	354.12	21651.52	0.0000	215177.60	128.89	21.03%
422	433.0	21407373	.00727	361.93	26449.30	0.0000	2e2859.00	124.68	20.4.%
371	210.5	10688e76	.00727	368.88	12947.85	0.0000	128673.65	121.21	19.83%
492	234.0	11873430	.00727	368.89	14393.34	0.0000	143044.20	121.2.	19.83%
316	142.5	7260366	.00727	370.41	8765.17	0.0000	87110.25	120.45	19.72%
292	210.5	10755041	.00727	371.58	12947.85	0.0000	128678.65	119.8e	19.61%
467	563.0	28907353	.00727	373.28	34630.13	0.0000	344161.90	119.01	19.47%
221	172.5	8866507	.00727	373.68	10610.45	0.0000	105449.25	118.8.	19.44%
184	205.0	10645149	.00727	377.51	12609.55	0.0000	125316.50	116.59	19.1.%
274	473.5	24746e3e	.00727	378.3e	29248.00	0.0000	290673.15	116.47	19.1.%
271	406.1	21274186	.00727	380.94	24978.06	0.0000	248137.83	115.13	18.84%
291	147.5	7945040	.00727	381.60	9072.73	0.0000	90166.75	114.85	18.79%
270	469.0	26e06844	.00727	393.52	28875.29	0.0000	286935.70	107.89	17.65%
477	220.0	11868502	.00727	396.29	13532.20	0.0000	134482.00	107.65	17.61%
511	234.0	12919652	.00727	401.67	14393.84	0.0000	143044.20	104.95	17.17%
462	367.0	20346368	.00727	403.05	22574.17	0.0000	224347.10	104.2	17.12%

488	555.6	20919817	.00727	429.57	21762.24	0.0000	216277.94	90.72	14.54%
526	227.5	15756829	.00727	439.61	13995.52	0.0000	139070.72	85.54	14.04%
302	204.5	12492110	.00727	444.10	12578.80	0.0000	125010.55	83.69	13.82%
481	560.0	34378918	.00727	446.57	34445.60	0.0000	342328.00	82.32	13.47%
317	73.5	4572883	.00727	452.90	4520.98	0.0000	44930.88	79.20	12.96%
225	169.0	10773754	.00727	462.46	10395.19	0.0000	103309.70	73.92	12.09%
444	386.0	25252713	.00727	475.61	23742.86	0.0000	235961.80	67.34	11.10%
314	149.5	10055999	.00727	489.01	9195.74	0.0000	91389.35	61.14	10.00%
303	322.5	21912917	.00727	493.95	19836.97	0.0000	197144.25	58.67	9.60%
233	124.0	8466891	.00727	496.41	7627.24	0.0000	75801.20	57.45	9.40%
502	189.0	13071900	.00727	502.82	11625.39	0.0000	115535.70	54.24	8.87%
255	314.0	21866431	.00727	506.27	19314.14	0.0000	191948.20	52.51	8.59%
354	222.5	15509823	.00727	506.77	13685.98	0.0000	136014.25	52.26	8.55%
277	243.5	17112852	.00727	510.91	14977.68	0.0000	148851.55	50.19	8.21%
476	152.0	10699755	.00727	511.76	9349.52	0.0000	92917.60	49.77	8.14%
[illegible]	225.5	16082626	.00727	518.50	13871.50	0.0000	137845.15	46.41	7.59%
219	208.5	14774257	.00727	527.81	12517.28	0.0000	124399.55	41.75	6.83%
395	364.0	26658509	.00727	532.34	22389.64	0.0000	222513.20	39.48	6.46%
300	420.5	31364357	.00727	542.26	25864.95	0.0000	257051.65	34.52	5.65%
242	108.5	8207005	.00727	549.91	6673.94	0.0000	66326.05	30.70	5.02%
215	596.0	45462536	.00727	554.55	36659.96	0.0000	364334.80	28.37	4.64%
228	139.0	19641709	.00727	556.58	8549.89	0.0000	84970.70	27.36	4.48%
304	123.5	9757700	.00727	574.99	7596.48	0.0000	75495.55	18.16	2.97%
210	897.5	172138611	.00727	1394.37	55205.22	0.0000	548641.75	-391.54	0.00%
362	780.0	131714100	.00727	947.66	47996.25	0.0000	476997.39	-168.18	0.00%
244	785.6	495247327	.00727	4585.79	47092.06	0.0000	468011.28	-2086.24	0.00%
213	685.0	188378750	.00727	1475.94	42154.35	0.0000	418940.50	-431.32	0.00%
363	605.5	110847365	.00727	1330.90	37244.31	0.0000	370142.15	-359.80	0.00%
452	495.6	65907958	.00727	970.73	30361.34	0.0000	301737.68	-179.71	0.00%
374	490.0	41981130	.00727	622.86	30139.90	0.0000	299537.00	-5.78	0.00%
328	475.5	44582540	.00727	680.87	29248.00	0.0000	290673.15	-34.78	0.00%
[illegible]	419.0	36456565	.00727	632.59	25772.69	0.0000	256134.70	-10.64	0.00%
226	401.5	55155719	.00727	1055.05	24696.26	0.0000	245436.75	-221.87	0.00%
507	382.0	[illegible]	.00727	1395.21	23496.22	0.0000	[illegible]	-391.45	0.00%
[illegible]	[illegible]	30626428	.00727	661.25	21710.42	0.0000	215334.71	-24.99	0.00%
332	[illegible]	34561225	.00727	615.44	15883.57	0.0000	[illegible]	[illegible]	0.00%
351	282.0	26166874	.00727	674.62	17345.62	0.0000	172386.61	-31.86	0.00%
216	254.5	44148764	.00727	1221.15	15654.30	0.0000	155575.35	-324.92	0.00%
220	237.7	28655649	.00727	876.43	14620.93	0.0000	145306.01	-152.86	0.00%
217	216.0	57832171	.00727	1946.46	13286.16	0.0000	132040.50	-667.79	0.00%
299	208.5	18069184	.00727	530.04	12824.83	0.0000	127456.05	-9.37	0.00%
269	188.0	15864436	.00727	614.25	11563.88	0.0000	114924.40	-1.48	0.00%
401	173.0	15502771	.00727	651.47	10641.23	0.0000	105754.90	-20.59	0.00%
399	170.5	18928252	.00727	809.65	10487.45	0.0000	104226.65	-99.17	0.00%
474	146.0	12794336	.00727	637.09	8980.46	0.0000	89249.80	-12.37	0.00%
209	145.3	61573700	.00727	3053.80	8937.40	0.0000	88821.89	-1234.75	0.00%
476	122.0	10659601	.00727	634.02	7504.22	0.0000	74578.60	-11.36	0.00%
462	[illegible]	10378831	.00727	655.27	7319.69	0.0000	72744.70	[illegible]	0.00%
424	[illegible]	15804876	.00727	850.52	7258.18	0.0000	72133.40	-119.61	0.00
275	108.5	10255602	.00727	567.17	6673.84	0.0000	66326.05	-37.94	0.00%
501	91.0	10940880	.00727	874.04	5597.41	0.0000	55628.30	-131.37	0.00%
	159936.5	3875596875	.00727 Mn	141.12 Mn	9837694.12	0.0000 Mn	15757868.55	315.33 Mn	41.72%