

AASHTO  
EQUIPMENT REFERENCE  
BOOK



American Association of State  
Highway and Transportation Officials

Highway Subcommittee on Maintenance

Equipment Information Exchange

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## I. GENERAL

### Introduction

The American Association of State Highway and Transportation Officials (AASHTO) Highway Subcommittee on Maintenance promotes and encourages technology transfer by member states and related agencies. To this end the purpose for which this Equipment Reference Book is intended is to foster the development of shared information with other states in considering matters of mutual interest in serving the public need. Initially, efforts are toward mutual sharing of major equipment purchase specifications, and to promote new and innovative equipment purchasing methods, purchasing ideas, maintenance equipment practices, and the establishment of state contacts within major equipment purchasing branches.

This publication represents the eleventh edition of the Equipment Information Exchange Annual Equipment Reference Book. Positive feedback from member states indicates that the worth of this publication becomes greater with each passing day.

Each state is encouraged to provide and share information on these and other topics relative to major equipment purchase specifications. Information you wish to share for publication in future issues of the newsletter should be forwarded to:

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## **II. POLICIES**

The Highway Subcommittee on Maintenance recognizes that purchasing policies vary between the states. While the responsibility and authority to purchase equipment, material, goods, supplies, and services are a part of our everyday life, each of the states could mutually benefit by providing and sharing information on new and improved maintenance equipment and practices. The sharing of data on new types of equipment that will further mechanize and reduce costs of maintenance operations, and identification of features that should be corrected, could benefit us all. Therefore, information you wish to share with other states should be made available for future publications.

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31.

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32. NEW MEXICO

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**2. PUERTO RICO**

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**IV. EQUIPMENT SPECIFICATIONS****A. SPECIFICATIONS INVENTORY BY STATE****1. ALABAMA**

<b>Number</b>	<b>Date</b>	<b>Title</b>
001	98	Airplane Turbo Prop 2 Engine
002	98	Airplane Reciprocating 2 Engine
003	03	Automobile - Gas
004	06	Automobile - Flex Fuel
005	03	Leased Automobiles
006	06	Auto Full Size
007	99	Airplane Jet Leased
008	99	Auto Propane
010	99	Post Auger Truck Diesel 2 ½ Ton
013	05	All Terrain Tool Carrier - Unimog
015	90	Auger Truck with Bucket Diesel 4-Ton Derrick
016	05	Auger Truck w/Bucket Diesel 5-Ton Derrick
017	92	Bridge Rating Truck, Diesel 10 Ton
020	06	One (1) Ton Bucket Truck Diesel
025	06	Bucket Truck 2 - 3 Ton Diesel
026	06	Bucket Truck/Sign 2 Ton Diesel
040	99	Bus Diesel 29 - 39 Passenger
045	03	Bus Gas - 29 Passenger
050	02	Carryall Diesel
055	02	Carryall Diesel 4-Wheel Drive
057	06	Carryall 1/2 Ton Flex Fuel
060	03	Carryall Gas
065	02	Carryall Gas 4-Wheel Drive
070	98	Carryall Leased
075	00	Chassis Diesel 3/4 - 1 Ton
078	00	Chassis Diesel 1-1/2 Ton Automatic Transmission
079	98	Chassis Diesel 1-1/2 Ton Standard Transmission
080	00	Chassis Diesel 2 Ton
082	99	Chassis Diesel 3 - 4 Ton
084	99	Chassis 5-Ton Diesel
085	98	Chassis Gas 3/4-1 Ton
093	90	Knuckleboom Crane Truck 1-1/2 Ton Diesel
095	89	Crane Diesel 3 Ton
100	06	Crane Diesel Knuckleboom 2 - 3 Ton
101	06	Crane Diesel Knuckleboom 4 Ton
103	06	Crane Diesel Knuckleboom 5 Ton
104	06	Crane Diesel Straightboom
105	98	Dist. Dsl. & Gas 600 -1000 Gal. Asph. Tank
110	06	Dist. Dsl. & Gas 1250 - 1500 Gal. Asph. Tank
115	89	Drill Unit Diesel 3/4 - 1 Ton
120	91	Drill Unit Gas 3/4 - 1 Ton
121	02	Drill Unit 1-1/2 Ton 4x4 Diesel
125	98	Drill Unit Gas 2 Ton
126	03	Drill Unit Diesel 2 - 2-1/2 Ton 4x4
127	05	Drill Unit Diesel 2 - 2-1/2 Ton
135	98	Core Drill Truck Mounted
140	05	Dump Diesel 2 - 2-1/2 Ton Automatic Transmission
145	05	Dump Diesel 2 - 2-1/2 Ton Std. Transmission
150	06	Dump Diesel 4 Ton Automatic Transmission
155	98	Dump Diesel 4 Ton Standard Transmission
160	06	Dump Diesel 5 Ton Automatic Transmission
165	03	Dump Diesel 5 Ton Standard Transmission
167	05	Tri-Axle Dump, Diesel, Standard Transmission
190	06	Flat Diesel 1 Ton
194	06	Flat Diesel 1-1/2 Ton Automatic Transmission

## EQUIPMENT SPECIFICATIONS

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Alabama (continued)

<b>Number</b>	<b>Date</b>	<b>Title</b>
195	06	Flat Diesel 2 - 2-1/2 Ton Automatic Transmission
199	98	Flat Diesel 1-1/2 Ton Standard Transmission
200	99	Flat Diesel 2 - 2-1/2 Ton Standard Transmission
205	98	Flat Diesel 3 Ton Automatic Transmission
210	98	Flat Diesel 3 Ton Standard Transmission
215	02	Flat Gas 1 Ton
218	00	Flat Gas 1-1/2 Ton Automatic Transmission
219	98	Flat Gas 1-1/2 Ton Standard Transmission
220	98	Flat Gas 2 -2-1/2 Ton Standard Transmission
235	06	Flat Crew Cab Diesel 1 Ton
236	06	Flat Diesel 1-1/2 Ton
240	06	Flat C.C. Diesel 2 Ton Automatic Transmission
241	04	Flat C.C. Diesel 3 Ton Automatic Transmission
245	98	Flat C.C. Diesel 2 Ton Standard Transmission
250	06	Flat C.C. Gas 1 Ton
251	03	Flat Crew Cab Gas 1-1/2 Ton
253	06	Flat C.C. Dump Diesel 1 Ton
260	03	Flat Dump Diesel 2-3 Ton Automatic Transmission
265	98	Flat Dump Diesel 2-Ton Standard Transmission
275	06	Flat Dump C.C. Diesel 2 Ton Automatic Transmission
280	98	Flat Dump C.C. Diesel 2 Ton Standard Transmission
285	06	Herbicide Diesel Automatic Transmission
287	06	Highway Motorist Assistance Vehicle
288	06	Highway Motorist Assistance Vehicle
300	98	Lift Truck Scissor Type Gas 1 Ton
303	98	Lube and Fuel Service Truck
310	05	Paint Mach. Centerline Truck Mounted Diesel & Gas
315	01	Panel Skid 1 Ton
316	03	Panel Skid 1 Ton Diesel
320	02	Pickup Diesel 3/4 Ton
322	02	Pickup Diesel 3/4 Ton Extended Cab
323	03	Pickup Diesel 1 Ton Extended Cab
324	03	Pickup Gas Mid-Size Extended Cab 4x4
325	02	Pickup Gas Mid-Size
326	03	Pickup Flex Fuel Mid-Size Extended Cab 4x4
327	02	Pickup Gas Mid-Size Extended Cab
328	02	Pickup Mid-Size (Flex Fuel)
329	03	Pickup Mid-Size Extended Cab (Flex Fuel)
330	04	Pickup Gas ½ Ton
331	06	Pickup Gas ½ Ton (Flex Fuel)
332	06	Pickup Gas ½ Ton Extended Cab
333	02	Pickup Gas ½ Ton 4x4
334	02	Pickup Gas ½ Ton Extended Cab 4x4
335	06	Pickup Gas 3/4 Ton
336	04	Pickup Gas 3/4 Ton 4x4
337	03	Pickup Gas 3/4 Ton Extended Cab
338	06	Pickup Gas 3/4 Ton Extended Cab 4x4
339	06	Pickup ½ Ton 4x4 Flex Fuel
340	03	Pickup Gas ½ Ton Tunnel
341	03	Pickup Gas ¾-1 Ton Tunnel
342	06	Pickup ½ Ton Extended Cab 4x4 Flex Fuel
343	05	Pickup Crew Cab Mid-Size
344	06	Pickup ½ Ton Extended Cab 4x4 Flex Fuel
345	06	Pickup C.C. Diesel 3/4 - 1 Ton
346	05	Pickup C. C. Diesel Mid-Size 4x4
350	06	Pickup C.C. Gas 3/4 - 1 Ton
351	06	Pickup C.C. Gas 3/4 - 1 Ton 4x4
352	06	Pickup C. C. Diesel ¾ - 1 Ton 4x4
354	06	Pickup C. C. Gas ½ Ton Flex Fuel

## EQUIPMENT SPECIFICATIONS

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Alabama (continued)

<b>Number</b>	<b>Date</b>	<b>Title</b>
355	06	Pickup C. C. Gas ½ Ton 4x4 Flex Fuel
365	92	Pothole Patcher Diesel
370	98	Post Driver
375	98	Sand Spreader Diesel All Sizes
385	98	Shoulder Maintenance Truck Diesel
387	06	Small Bridge Inspection Unit
388	06	Large Bridge Maintenance Unit
390	06	Large Bridge Inspection Unit
391	06	Truck with Service Body Gas ¾ Ton
392	06	Truck with Service Body Diesel 1 Ton w/Service Body
393	06	Truck with Service Body Diesel 1-1/2 Ton w/ Service Body
394	06	Truck with Service Body Diesel 1 Ton w/ Service Body
395	06	Truck with Service Body Crew Cab Diesel ¾-1Ton 4x4
396	03	Truck with Service Body Crew Cab Diesel 1-1/2 Ton
397	06	Truck with Service Body Diesel ¾ Ton 4x4
398	04	Truck with Service Body Crew Cab Gas 3/4 Ton
399	06	Truck with Service Body Diesel C.C. 1-1/2 Ton 4x4
400	98	Truck Tractor Diesel 3 Ton
401	04	Truck with Service Body Diesel Extended Cab ¾ Ton
402	06	Truck with Service Body Diesel ¾ Ton 4x4
405	98	Truck Tractor Diesel 4 Ton
410	05	Truck Tractor Diesel 5 Ton Tandem Axle Standard Transmission
411	98	Truck Tractor Diesel 5 Ton Tandem Axle Standard Transmission
412	05	Utility Truck Mid-Size Flex Fuel
413	06	Utility Truck 4x4 Flex Fuel
415	99	Utility Truck Mid-Size 4x2 Leased
416	06	Utility Truck Mid-Size 4x2
417	05	Utility Truck Mid-Size 4x4
418	02	Utility Truck 4x2 Gas
419	06	Utility Truck 4x4 Gas
420	06	Van 2-5 Passenger Diesel 3/4 - 1 Ton
421	00	Utility Truck 4x4 Leased
422	05	Utility Truck 4x2 Flex Fuel
423	05	Utility Truck Mid-Size 4x4 Flex Fuel
424	06	Van Cargo Diesel 1-1/2 Ton
425	06	Van Cargo Diesel 2-Ton
430	05	Van Passenger Gas Mid-Size
431	06	Van Passenger Gas Mid-Size Flex Fuel
435	06	Van 2-5 Passenger ¾-Ton Gas
436	06	Van 6 - 15 Passenger ¾-Ton Gas
437	92	Van Bridge Rating
448	98	Vertical Platform Truck 1-1/2 Ton
450	03	Station Wagon Gas Mid-Size
451	03	Station Wagon Flex Fuel Mid-Size
455	03	Station Wagon Gas Full-Size
458	02	Waste Crane Truck
460	99	Water Truck Diesel 2 - 2-1/2 Ton
461	03	Water Truck Diesel 5 Ton
465	98	Water Truck Gas 2 - 3 Ton
470	98	Welding Truck Diesel 3/4 - 1 Ton
475	98	Welding Truck Gas ¾ - 1 Ton
480	06	Winch Truck Diesel 2-Ton
481	98	Winch Truck Shopmade 3-Ton
485	98	Winch Truck Gas 2-Ton
489	03	Wrecker Diesel 1-1/2 Ton
490	98	Wrecker Diesel 2 - 3 Ton
495	89	Wrecker Diesel 4 Ton
505	98	Wrecker Gas 1 - 2 Ton
510	98	Wrecker Gas 2-1/2 - 3 Ton

## EQUIPMENT SPECIFICATIONS

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Alabama (continued)

<b>Number</b>	<b>Date</b>	<b>Title</b>
700	05	Asphalt Patching Truck
720	05	Air Compressor 201 - 400 CF
725	02	Air Compressor 401 - 600 CF
730	90	Crane Diesel 11 - 25 Ton Truck-Mounted
735	90	Crane Diesel 30 - 40 Ton Truck-Mounted
740	90	Crane Diesel 45 - 75 Ton Truck-Mounted
750	02	Core Drill Off-Road
755	03	Core Drill Off-Road Track
760	02	Excavator Truck-Mounted
765	06	Excavator Truck-Mounted, Large
767	04	Excavator Trac 15-18 Ton Mounted
768	06	Excavator Trac 12-14 Ton Mounted
769	05	Excavator Trac 20-23 Ton Mounted
770	98	Heater Tank Car Asphalt Trailer-Mounted
773	92	Telescopic Materials Handler
775	99	Three Drum Hoist
780	98	Force Feed Loader
785	02	Loader Backhoe
787	06	Loader Backhoe 4 x 4 x 4
790	99	Loader Front End Crawler 1-1/8 - 2 Yd.
791	99	Loader Front End Crawler 2-3 Yd.
795	98	Loader Front End R.T. 0-1 Yd.
800	00	Front End Loader R T 1-1/8 - 2 Yd.
805	06	Front End Loader R T 2-1/8 - 3 Yd.
810	04	Asphalt Maintainer Self-Propelled
815	98	Bituminous Mixer 200 - 300 Ton
824	02	Motor Patrol Small
825	06	Motor Patrol Large
830	02	Pavers All Sizes
835	98	Planer 30" - 36"
840	91	Planer 60"
845	90	Planer 60" with Conveyor
847	92	Planer 75" and above w/Conveyor
849	05	Planer Trac 78" and above w/Conveyor
855	02	Roller Tandem 2 - 6 Ton
860	06	Roller Tandem 7 - 12 Ton
870	98	Roller R.T./S.P. 9-Wheel
875	05	Roller Single Drum Vibratory Medium
876	03	Roller Two Drum Vibratory
880	98	Chip Spreader
885	06	Sweeper Self-Propelled
889	06	Street Sweeper 3 - 4 Yd. Mechanical
890	01	Street Sweeper 5 - 6 Yd. Vacuum
895	98	Tractor Crawler Dozer w/Backhoe
900	06	Tractor Crawler Light
905	06	Tractor Crawler Medium
907	98	Tractor Crawler Heavy
910	90	Tractor R T Heavy (State Const.)
920	06	Tractor Mower Boom/Brush
921	06	Tractor Guardrail Mower
923	04	Slope Mower
925	98	Tractor Grader Mower
930	06	Tractor Mower Small
933	98	Tractor Herbicide Sprayer
935	06	Tractor 4 Cyl Operating Rotary Cutters
936	06	Tractor 6 Cyl Operating Rotary Cutters
937	97	Tractor Mower Single Wing Flail
939	03	Tractor-Mower Interstater Heavy
940	06	Tractor Mower Interstater

## EQUIPMENT SPECIFICATIONS

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Alabama (continued)

<b>Number</b>	<b>Date</b>	<b>Title</b>
941	91	Tractor Mower Turf
943	98	Tractor Mower Slope Large
945	96	Trailer Low-Boy 30 - 40 Ton
946	05	Trailer Low-Boy 41 - 50 Ton
950	91	Trailer Platform
960	01	Pickup Mid-Size Leased Purchase
965	91	Road Widener Self-Propelled Medium
996		Non-Rental SG7
999		Dummy Record

## EQUIPMENT SPECIFICATIONS

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### 2. ILLINOIS

<b>Number</b>	<b>Title</b>
111	Specifications & Questionnaire for 4.0 Cubic Yard Capacity, Four-Wheel-Drive, Articulated, Wheel Type End Loaders with Hydrostatic-Powered Snow Blower
111	Specifications & Questionnaire for 1.5 Cubic Meter Capacity, Four-Wheel-Drive, Articulated, Wheel Loader
111	Specifications & Questionnaire for 1.5 Cubic Meter Capacity, Four-Wheel-Drive, Articulated, Wheel Loader
112	Specifications & Questionnaire for 80 H.P. Track-Type Loaders
113	Specifications & Questionnaire for a Self-Propelled, Hydraulically Operated, Force Feed Loader
115	Specifications & Questionnaire for a Rigid Frame, Skid-Steer Loader with Hydraulic-Powered Planer
115	Specifications & Questionnaire for Rigid Frame, Skid Steer Loader with Hydraulic-Powered 40-Inch Planer
117	Specifications & Questionnaire for a Heavy-Duty, Backhoe Mounted Asphalt/Concrete Planer Attachment
117	Specifications & Questionnaire for Heavy-Duty, Skid-Steer Loader Mounted Asphalt/Concrete Planer Attachment
118	Specifications & Questionnaire for an 80 H.P. Crawler Tractor with Angle Dozer
122	Specifications & Questionnaire for an 85 H.P., Tandem Drive, Articulated Motor Grader
123	Specifications & Questionnaire for a 125 H.P., Six-Wheel-Drive, Articulated Motor Grader
131	Specifications & Questionnaire for Tractor/Loader/Backhoe
132	Specifications & Questionnaire for an 80 H.P. Tractor/Loader/Backhoe
132	Specifications & Questionnaire for a 90 H.P. Tractor/Loader/Backhoe
141	Specifications & Questionnaire for a Self-Propelled Static Type, Tandem Roller
142	Specifications & Questionnaire for a Self-Propelled, Vibrating Type, Tandem Roller
142	Specifications & Questionnaire for Self-Propelled Walk Behind, Vibrating, Remote Trench Roller
143	Specifications & Questionnaire for a Portable, Self-Propelled, Vibrating Type Roller
145	Specifications & Questionnaire for a Tow Type, 9-Wheel, Pneumatic-Tired Roller
151	Specifications & Questionnaire for a 3-Wheel, Mechanical, Broom Type Street Sweeper
152	Specifications & Questionnaire for a Self-Propelled, Regenerative Air Street Sweeper
153	Specifications & Questionnaire for a Truck-Mounted, Hydraulic Powered Broom
161	Specifications & Questionnaire for a Track-Mounted, Multi-Purpose, Dragline and Lifting Crane
165	Specifications & Questionnaire for a Hydraulic, Multi-Purpose, Lifting Crane
171	Specifications & Questionnaire for a Large Truck-Mounted, Multi-Purpose, Hydraulically Powered Excavator
172	Specifications & Questionnaire for a Four-Wheel-Drive, Carrier Mounted, Multi-Purpose, Hydraulically Powered Excavator
173	Specifications & Questionnaire for a Track-Mounted, Multi-Purpose, Hydraulically Powered Excavator
181	Specifications & Questionnaire for an 18,000-Pound Forklift
181	Specifications & Questionnaire for an 8,000-Pound Pneumatic-Tired, Forklift
181	Specifications & Questionnaire for a 2,500-Pound, Rider End Control, Fork Truck
181	Specifications & Questionnaire for a Large Material Handling Forklift
181	Specifications & Questionnaire for 10,000-Pound Material Handling Forklift
201	Specifications & Questionnaire for a Small Riding Type Tractor with Various Attachments
202	Specifications & Questionnaire for a Low-Profile Riding Type Tractor with Various Attachments
203	Specifications & Questionnaire for Low Profile Tractors
203	Specifications & Questionnaire for Utility Tractor with Loader Attachments
205	Specifications & Questionnaire for 50 H.P. Agricultural Type Tractors
206	Specifications & Questionnaire for 70 H.P. Agricultural Type Tractors
206	Specifications & Questionnaire for 85 H.P. Agricultural Type Tractors
209	Specifications & Questionnaire for a Special Agricultural Tractor with Boom-Mounted Brush Cutter
211	Specifications & Questionnaire for a Single-Spindle, 72 Inch, 3-Point Hitch Mount, Rotary Mower Attachment
213	Specifications & Questionnaire for a Tow Type, 10-Foot, 2-Section, Flexible, Rotary Mower Attachment



## EQUIPMENT SPECIFICATIONS

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Illinois (continued)

<b>Number</b>	<b>Title</b>
214	Specifications & Questionnaire for a 3-Point, Hitch Mount, PTO Drive, Sickle Bar Mower
215	Specifications & Questionnaire for Special Boom-Mounted Brush Cutter
215	Specifications & Questionnaire for Remounting a Rotary Style Mower/Brush Cutter
216	Specifications & Questionnaire for Flail Style Hammer Knife Type Mowers
217	Specifications & Questionnaire for a Special, Hydraulic, Under-Guardrail Mower
221	Specifications & Questionnaire for a Tractor Type Front Mounted, Hydraulically Powered Broom
221	Specifications & Questionnaire for a Tractor Mounted, Hydraulically Powered Broom
221	Specifications & Questionnaire for Hydraulically Powered Broom for a Skid-Steer Loader
222	Specifications & Questionnaire for a Heavy-Duty, 8-Foot, Rear Scraper Blade
222	Specifications & Questionnaire for a Medium-Duty, 8-Foot, Rear Scraper Blade
224	Specifications & Questionnaire for a Boom Mounted Rotary-Ditching Attachment
251	Specifications & Questionnaire for a Heavy-Duty, High-Speed, One-Way Snowplow
251	Specifications & Questionnaire for Heavy-Duty, High-Speed, One-Way Snowplow for Tandem and 4 x 4 Trucks
252	Specifications & Questionnaire for a Polymer, High Moldboard Type, Reversible, Trip Blade Snowplow
253	Specifications & Questionnaire for a Heavy-Duty, V-Type Snowplows
253	Specifications & Questionnaire for Heavy-Duty, V-Type Snowplows for 125 H.P. Motor Graders
253	Specifications & Questionnaire for Heavy-Duty, V-Type Snowplows for 85 H.P. Motor Graders
254	Specifications & Questionnaire for a Heavy-Duty, Truck-Mounted Wing Plow
254	Specifications & Questionnaire for a Heavy-Duty, Mounted Wing Plow for a 125 H.P. Motor Grader
254	Specifications & Questionnaire for a Heavy-Duty, Mounted Wing Plow for an 85 H.P. Motor Grader
254	Specifications & Questionnaire for a Truck-Mounted, Double Function, Patrol Wing Plow
254	Specifications & Questionnaire for a Heavy-Duty Truck-Mounted Wing Plow
254	Specifications & Questionnaire for a Truck-Mounted Patrol Wing Plow
254	Specifications & Questionnaire for a Truck-Mounted Mid-Mounted Wing Plow
255	Specifications & Questionnaire for a Heavy-Duty Underbody Scraper
261	Specifications & Questionnaire for an Under-the Tail-Gate Type Material Spreader
261	Specifications & Questionnaire for a Zero Velocity Under-Tailgate Salt Spreader with Liquid Dispenser
261	Specifications & Questionnaire for a Pre-wetting System for Under-Tailgate Salt Spreaders
262	Specifications & Questionnaire for 16.5 Cubic Yard, Stainless Steel, Dump Body Mounted, Large, Hopper Body Type Spreaders
262	Specifications & Questionnaire for Presetting System for Hopper Style Salt Spreaders
262	Specifications & Questionnaire for Dump Body Mounted, 12.5 Cu. Yd., Hopper Body Type Spreaders
281	Specifications & Questionnaire for Replacement Utility Body, Recovery Boom and Wheel Lift
281	Specifications & Questionnaire for Purchase & Installation of a Large Rotating Hydraulic Recovery Wrecker and Utility Body
283	Specifications & Questionnaire for 70-Foot, Self-Propelled, Telescopic, Man Lift
283	Specifications & Questionnaire for 750-Pound Capacity Scissors Style Lift
283	Specifications & Questionnaire for a 32-Foot, Self-Propelled, Lift Platform
301	Specifications & Questionnaire for a Diesel Powered Brush and Tree Chipping Machine
311	Specifications & Questionnaire for a Trailer-Mounted Stump Cutter
321	Specifications & Questionnaire for Push Style, Commercial Duty Power Mower
322	Specifications & Questionnaire for Self-Propelled Type Commercial Duty Lawn Mower
322	Specifications & Questionnaire for a Heavy-Duty, 2-Wheel Tractor with Direct Mount Landscape Mower
331	Specifications & Questionnaire for Heavy-Duty, 18 H.P., 4-Wheel Landscape Mower
331	Specifications & Questionnaire for Heavy-Duty, 20 H.P., 4-Wheel Landscape Mower
331	Specifications & Questionnaire for a Hydraulically Driven, All-Terrain Type Carrier
332	Specifications & Questionnaire for a Diesel Powered, All-Terrain Slope Mowing Machine
341	Specifications & Questionnaire for 12-Inch, Gasoline Powered Chain Saws
342	Specifications & Questionnaire for 16-Inch, Gasoline Powered Chain Saws
343	Specifications & Questionnaire for 24-Inch, Gasoline, Powered Chain Saws

## EQUIPMENT SPECIFICATIONS

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Illinois (continued)

<b>Number</b>	<b>Title</b>
351	Specifications & Questionnaire for a Skid-Mounted Weed Sprayer
351	Specifications & Questionnaire for Skid-Mounted Weed Sprayer with Ground-Speed Control
352	Specifications & Questionnaire for a Portable Chemical Sprayer
352	Specifications & Questionnaire for Skid-Mounted Weed Sprayer with Ground-Speed Control
361	Specifications & Questionnaire for a Gasoline-Powered Grass Line Trimmer
362	Specifications & Questionnaire for a Gasoline-Powered Weed and Brush Trimmer
371	Specifications & Questionnaire for a Trailer-Mounted Hydro-seeder
372	Specifications & Questionnaire for a Native Grass Drill
374	Specifications & Questionnaire for a Heavy-Duty, 3-Point, Hitch-Mounted Tree Planter
375	Specifications & Questionnaire for a Heavy-Duty, 3-Point, Hitch-Mounted, Tree Spade
381	Specifications & Questionnaire for a Tractor-Mounted, PTO-Powered, Center-Mount, Tiller Attachment
398	Specifications & Questionnaire for a Trailer-Mounted Mulch Spreader
402	Specifications & Questionnaire for a Trailer Mounted, 2270-Liter, Bitumen Distributor
402	Specifications & Questionnaire for a Trailer Mounted, 400-Gallon, Bitumen Distributor
403	Specifications & Questionnaire for a Trailer Mounted, Multi-Function, Asphalt Patching Machine
403	Specifications & Questionnaire for Self-Propelled, Liquid, Spray Injection, Patching Machine
423	Specifications & Questionnaire for a Trailer-Mounted, Infrared, Asphalt Reclamation Unit
431	Specifications & Questionnaire for a Trailer-Mounted, Tubular Type, Bitumen Heating Kettle, 625-Liter Capacity
432	Specifications & Questionnaire for a Trailer-Mounted, Tandem Axle, Tubular Type, Bitumen Heating Kettle, 1135-Liter Capacity
435	Specifications & Questionnaire for a Trailer-Mounted, Rubber Asphalt, Crack-Sealing Machine, 190 and 227-Liter Capacity
437	Specifications & Questionnaire for a Trailer-Mounted, Rubber Asphalt, Crack-Sealing Machine of 750-Liter Capacity
441	Specifications & Questionnaire for Rotary Air Compressor (4.2 Cubic Meter)
441	Specifications & Questionnaire for a Skid-Mounted, 100 Cubic Foot, Rotary Type Air Compressor
442	Specifications & Questionnaire for Rotary Air Compressor (7.0 Cubic Meter)
442	Specifications & Questionnaire for Stationary, Utility Style, Rotary Air Compressor (7.0 Cubic Meter)
453	Specifications & Questionnaire for a Tubular, PTO-Driven, Belt Conveyor
456	Specifications & Questionnaire for 72-Foot Portable Augers
461	Specifications & Questionnaire for an Engine Driven Steel Drum, Concrete Mixer
473	Specifications & Questionnaire for a Trailer Mounted, High Pressure, Sewer Cleaner
481	Specifications & Questionnaire for a Hydraulic Driven, Replacement End Gate Type Aggregate Spreaders
483	Specifications & Questionnaire for a Hydraulic Under-Tailgate Conveyor for Spreading Shoulder Materials
486	Specifications & Questionnaire for a Widener Attachment
492	Specifications & Questionnaire for a Self-Propelled, Pneumatic Rubber Tired, Bituminous Paver with Attachments
501	Specifications & Questionnaire for a Roof-Mounted, Directional, Arrow Indicator
501	Specifications & Questionnaire for a Directional, Split Arrow Indicator
501	Specifications & Questionnaire for a Truck-Box-Mounted, Directional, Arrow Indicator
503	Specifications & Questionnaire for Diesel-Powered, Portable, Traffic Control Arrow Panels
504	Specifications & Questionnaire for a Solar Powered, Portable, LED Traffic Control Arrow Panel
505	Specifications & Questionnaire for Truck Mounted Impact Attenuators
507	Specifications & Questionnaire for a Solar Powered, Trailer Mounted, LED Style, Changeable Message Board
507	Specifications & Questionnaire for a Truck-Mounted, Flip Disc Changeable Message Board
512	Specifications & Questionnaire for a Trailer-Mounted, Engine Driven, Hydraulic Mud-Jack
521	Specifications & Questionnaire for Portable Concrete Saw, 14 H.P.
522	Specifications & Questionnaire for Portable Concrete Saw, 18-25 H.P.
524	Specifications & Questionnaire for a 65 H.P., Self-Propelled, Concrete Cutting Machine
524	Specifications & Questionnaire for 65 H.P., Self-Propelled, Pavement Groove Cutting Machine with Vacuum

## EQUIPMENT SPECIFICATIONS

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Illinois (continued)

<b>Number</b>	<b>Title</b>
526	Specifications & Questionnaire for a Self-Propelled, Joint Routing Machine
528	Specifications & Questionnaire for a Power Brush/Blower
536	Specifications & Questionnaire for "T" Transport Trailer for Semi-portable Electronic Truck Weighing Scales
537	Specifications & Questionnaire for an Equipment Trailer with the Deck between the Wheels
539	Specifications & Questionnaire for a Single Point Suspended Platform Equipment Trailer with Air Brakes
539	Specifications & Questionnaire for a Three Axle Slipper Spring Suspended Platform Equipment Trailer with Air Brakes
541	Specifications & Questionnaire for Used, Van Style, Semi-Truck, Fifth-Wheel Trailer
542	Specifications & Questionnaire for "T" Transport Trailer for Semi-portable Electronic Truck Weighing Scales
543	Specifications & Questionnaire for a Five-Ton Capacity, Equipment Trailer with Electric Brakes
543	Specifications & Questionnaire for a Removable Gooseneck, Tandem Axle Semi-Trailer, (31,752 Kg.)
545	Specifications & Questionnaire for a Sixteen-Ton, Payload Capacity, Platform Equipment Trailer with Air Brakes
545	Specifications & Questionnaire for a Removable Gooseneck, Triple Axle Semi-Trailer (36,200 Kg.)
545	Specifications & Questionnaire for Removable Gooseneck, Tandem Axle Semi-Trailer (36,200 Kg.)
545	Specifications & Questionnaire for a Twenty-Ton, Payload Capacity, Hydraulic Tilt Deck Equipment Trailer with Air Brakes
545	Specifications & Questionnaire for an Eighteen-Ton, Payload Capacity, Platform Equipment Trailer with Air Brakes
546	Specifications & Questionnaire for a 40-Ton, Removable Gooseneck, Triple Axle Semi-Trailer
549	Specifications & Questionnaire for a Tandem Axle, Aluminum Dump Trailer
551	Specifications & Questionnaire for a Hydraulically Powered Pavement Breaker for a Skid-Steer Loader
551	Specifications & Questionnaire for a Hydraulically Powered Pavement Breaker for a Tractor/Loader/Backhoe
552	Specifications & Questionnaire for a Pneumatic Powered Pavement Breaker for Tractor/Loader/Backhoe
553	Specifications & Questionnaire for a Mobile Hydraulic Hammer
554	Specifications & Questionnaire for a Pneumatic Pavement Breaker, 30lb. - 35lb. Weight Class
554	Specifications & Questionnaire for a Pneumatic Pavement Breaker, 60lb. Weight Class
554	Specifications & Questionnaire for a Pneumatic Pavement Breaker, 80lb. - 90lb. Weight Class
556	Specifications & Questionnaire for a Pneumatic Rock Drill
563	Specifications & Questionnaire for Hydraulic Bridge Jacking and Components
563	Specifications & Questionnaire for Hydraulic Jacking Components
568	Specifications & Questionnaire for an Aluminum Flat Bottom Boat, Outboard Motor, and Trailer
571	Specifications & Questionnaire for a 5,000-Gallon, Skid-Mounted, Electric Heated, Asphalt Storage Tank
572	Specifications & Questionnaire for a Fiberglass, Calcium Chloride Storage Tank
572	Specifications & Questionnaire for a Liquid Calcium Chloride Storage Tank with Dispensing System and Installation
572	Specifications & Questionnaire for 6,500-Gallon Poly, Liquid Storage Tank
572	Specifications & Questionnaire for 6,000-Gallon Poly, Liquid Storage Tank
572	Specifications & Questionnaire for Poly, Liquid Storage Tank, 2,500-Gallon Capacity
574	Specifications & Questionnaire for a Skid-Mounted Type Storage Tank
574	Specifications & Questionnaire for a Skid-Mounted Type Water Tank
579	Specifications & Questionnaire for a Trailer-Mounted Type Tank with Sprinkling System
579	Specifications & Questionnaire for a Stainless Steel Portable Paint Tank
579	Specifications & Questionnaire for Aboveground Fuel Storage Tank
581	Specifications & Questionnaire for a 4-Inch Engine-Driven Centrifugal Dewatering Pump
581	Specifications & Questionnaire for Two-Inch Centrifugal Pump
581	Specifications & Questionnaire for a 6-Inch, Diesel Powered Centrifugal Dewatering Pump
582	Specifications & Questionnaire for a Skid-Mounted, 3-Inch Trash Pump
582	Specifications & Questionnaire for Engine-Driven Concrete Pump

## EQUIPMENT SPECIFICATIONS

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Illinois (continued)

<b>Number</b>	<b>Title</b>
582	Specifications & Questionnaire for Engine-Driven 4-Inch Trash Pump
584	Specifications & Questionnaire for a Long Hitch Mobile Trailer Pump
591	Specifications & Questionnaire for a Gasoline-Engine Powered Tamper
601	Specifications & Questionnaire for a Skid-Mounted, Engine Driven Constant Current, AC-DC, Arc Welding Generator
602	Specifications & Questionnaire for Trailer-Mounted, Diesel Engine Driven Constant Current, DC, Arc Welding Generator Over 300 Amps
602	Specifications & Questionnaire for a Trailer-Mounted, Diesel Engine Driven Constant Current, DC, Arc Welding Generator up to 300 Amps
602	Specifications & Questionnaire for a Trailer-Mounted, Engine Driven Constant Current, AC-DC, Arc Welding Generator
606	Specifications & Questionnaire for a Portable 3KW AC Electric Generator Plant
607	Specifications & Questionnaire for a Portable 5.0KW AC Electric Generator Plant
621	Specifications & Questionnaire for 100-Pound Portable Sandblaster Package
621	Specifications & Questionnaire for a 300-Pound Portable Sandblaster Package
629	Specifications & Questionnaire for Crawler Mounted, Self-Propelled, Joint Cutter
629	Specifications & Questionnaire for Self-Propelled, Concrete Planer
629	Specifications & Questionnaire for Diesel-Powered Pile Hammer with Swing-Style Leads
629	Specifications & Questionnaire for Rubber-Tired, Self-Propelled Road Planer/Profiler
629	Specifications & Questionnaire for Mechanically Adjustable Trench Shoring
629	Specifications & Questionnaire for Trench Shoring
629	Specifications & Questionnaire for Widener Attachment
629	Specifications & Questionnaire for Grappler Attachment
629	Specifications & Questionnaire for Gravity Flow Grain Wagon
629	Specifications & Questionnaire for Shoulder Disk & Drag
629	Specifications & Questionnaire for a Set of Air-Lifting Cushions
629	Specifications & Questionnaire for Liquid Salt Applicator
629	Specifications & Questionnaire for a Heat Lance
629	Specifications & Questionnaire for a Combination Liquid Salt Applicator/Weed Sprayer
629	Specifications & Questionnaire for Replacement and Installation of a Fiberglass Utility Body
629	Specifications & Questionnaire for a Salt Brine Generator
631	Specifications & Questionnaire for a Large Garage Style Air Compressor
631	Specifications & Questionnaire for Large Vertical Garage Style Air compressor
632	Specifications & Questionnaire for a ½-Inch Capacity, Pneumatic Impact Wrench
633	Specifications & Questionnaire for a ¾-Inch Capacity, Pneumatic Impact Wrench
634	Specifications & Questionnaire for a 1-Inch Capacity, Pneumatic Impact Wrench
637	Specifications & Questionnaire for a Small, Portable, Air-Motor-Operated Lubrication Assembly
641	Specifications & Questionnaire for a Air-Over Hydraulic Floor Jack
641	Specifications & Questionnaire for a 4-Ton Capacity, Garage Type Floor Jack
641	Specifications & Questionnaire for a 10-Ton Capacity, Garage Type Floor Jack
661	Specifications & Questionnaire for a Portable, Heavy-Duty, Commercial Service Battery Charger
662	Specifications & Questionnaire for a Metal Cutting Band Saw
663	Specifications & Questionnaire for a Floor Model Drill Press
671	Specifications & Questionnaire for an AC-DC Transformer Rectifier Combination Type Electric Welder
671	Specifications & Questionnaire for a DC Type Electric Welder (3-Phase)
672	Specifications & Questionnaire for an Oxygen-Acetylene Welding & Cutting Outfit
694	Specifications & Questionnaire for Small, Hot Water, High Pressure Cleaner
694	Specifications & Questionnaire for Medium-Duty, Hot Water, High Pressure Washer, with Installation
694	Specifications & Questionnaire for Propane or Natural Gas Fired, High Pressure Washer, with Installation
694	Specifications & Questionnaire for Cold Water, High Pressure Washer
694	Specifications & Questionnaire for a Cold Water, High Pressure Sign Washer
698	Specifications & Questionnaire for a Portable Gantry Crane and Hoist
699	Specifications & Questionnaire for a Programmable, Electronic Rebar Bending Machine
699	Specifications & Questionnaire for a Dual System Generator/Starter
699	Specifications & Questionnaire for Sign Refurbishing Machine

## EQUIPMENT SPECIFICATIONS

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Illinois (continued)

<b>Number</b>	<b>Title</b>
699	Specifications & Questionnaire for Dust Collection Machine
699	Specifications & Questionnaire for Propane Storage Tank Dispensing Pump with Installation
699	Specifications & Questionnaire for a Hydraulic, 90-Ton Punch Press
699	Specifications & Questionnaire for a Running Gear, Trailer, and Diesel-Engine Power Source
751	Specifications & Questionnaire for an Aluminum Thermoplastic, Push Style, Hand Applicator
751	Specifications & Questionnaire for Self-Propelled Line & Curb Painting Machine
752	Specifications & Questionnaire for a Trailer Mounted, Thermoplastic Machine with Applicator
753	Specifications & Questionnaire for Heavy-Duty Surface Preparation Machine
753	Specifications & Questionnaire for Heavy-Duty, Line Remover
821	Specifications & Questionnaire for a High-Band Repeater System, High Power Tone Remote Control
822	Specifications & Questionnaire for a VHF Control Station
832	Specifications & Questionnaire for a UHF Control Station
853	Specifications & Questionnaire for a UHF 4 Channel Hand Held Radio
861	Specifications & Questionnaire for a High-Band 16 Channel Under-Dash Mobile Radio
862	Specifications & Questionnaire for a Low-Band 32 Channel Remote Mounted Mobile Radio
863	Specifications & Questionnaire for a UHF 16 Channel Under-Dash Mobile Radio
871	Specifications for a Radio Control Console
872	Specifications for a Repeater System
873	Specifications for a Repeater Station
892	Specifications & Questionnaire for a Vehicular Repeater System
897	Specifications & Questionnaire for a Seamless Fiberglass Shelter
931	Specifications & Questionnaire for District One Control Addition to Station One
931	Specifications & Questionnaire for Canister Style Load Cells
931	Specifications & Questionnaire for Portable Wheel Load Scale and Electronic Accessories
931	Specifications & Questionnaire for Type "C" Semi-portable Split Axle Load Scale & Electronic Accessories
931	Specifications & Questionnaire for Portable Wheel Load Scale and Electronic Accessories
931	Specifications & Questionnaire for a Programmable, Electronic Timer Switch
931	Specifications & Questionnaire for 40 Channel Voice Logger with Microcassette Output Option
931	Specifications & Questionnaire for 8 Channel Expandable Voice Logger
931	Specifications & Questionnaire for Radio Site Monitoring Components
931	Specifications & Questionnaire for Expandable Voice Processing System
998	Specifications & Questionnaire for Cast Iron Scale Testing Weights
T20	Specifications for a Heavy-Duty Window Van Truck (3,800 Kg. GVWR)
T22	Specifications for a Utility Body Pickup Truck (3,800 Kg. GVWR)
T32	Specifications for a Crew Cab Utility Body Pickup Truck (4,355 Kg. GVWR)
T41	Specifications for a Medium Duty Truck Mounted Wheel Lift and Body (6,800 Kg. GVWR)
T42	Specifications for a Medium Duty Utility Body Truck (4,500 Kg. GVWR)
T42	Specifications for a Medium Duty Utility Body Service Truck (6,800 Kg. GVWR)
T42	Specifications for a Medium Duty Utility Body Truck with Knuckleboom Crane (6,800 Kg. GVWR)
T43	Specifications for a Medium Duty Platform Truck (6,800 Kg. GVWR)
T43	Specifications for 10,000 lb. G.V.W.R. Platform Truck
T43	Specifications for 15,000 lb. G.V.W.R. Platform Truck
T45	Specifications for a Medium Duty Pickup Truck (4,500 Kg. GVWR)
T45	Specifications for a 10,000 LB. G.V.W.R. Cab and Chassis only
T45	Specifications for a Medium Duty Cab and Chassis (6,800 Kg. GVWR)
T47	Specifications for a Medium Duty Crew Cab Platform Truck (6,800 Kg. GVWR)
T49	Specifications for a Van with Mounted Aerial Device (4,170 Kg. GVWR)
T49	Specifications for a Medium Duty Platform Truck with Aerial Lift (6,800 Kg. GVWR)
T50	Specifications for a Single Axle Step Van Truck
T53	Specifications for a Single Axle, Heavy Duty, Utility Truck
T54	Specifications for a Single Axle, Heavy Duty, Crew Cab, Utility Truck
T55	Specifications for a Single Axle Box Van Remount Chassis
T59	Specifications for a Tandem Axle Drive Truck-Tractor (22,600 Kg. GVWR)
T64	Specifications for a Single Axle Dump Truck
T65	Specifications for a Crew Cab Single Axle Dump Truck
T66	Specifications for a Tandem Axle Dump Truck (20,800 Kg. GVWR)

## EQUIPMENT SPECIFICATIONS

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Illinois (continued)

<b>Number</b>	<b>Title</b>
T67	Specifications for a Tandem Axle Dump Truck and Wing Plow (20,800 Kg. GVWR)
T68	Specifications for a Large Tandem Axle Dump Truck (22,600 Kg. GVWR)
T69	Specifications for a Four-Wheel-Drive Dump Truck (19,000/28,500 Kg. GVWR)
T71	Specifications for a Single Axle Platform Truck
T71	Specifications for Single Axle, Low Profile, Platform Truck
T72	Specifications for a Crew Cab Single Axle Platform Truck
T73	Specifications for a 56,000 GVW Rated Tandem Axle Platform Truck and Related Accessories
T74	Specifications for a Single Axle Dump Truck with Hydraulic Powered Loader Attachment
T74	Specifications for Single Axle Cab and Chassis with Driving Front Axle
T79	Specifications for Truck with Combination Vacuum Type Catch Basin Cleaner and High-Capacity High-Pressure Jet Rodder (26,200 Kg. GVWR)
T80	Specifications for a Single Axle, truck with Aerial Lift
T81	Specifications for a Tandem Axle Truck with Crane (21,700 Kg. GVWR)
T83	Specifications for Under-Bridge Inspection Vehicle (28,123 Kg. GVWR)
T83	Specifications for an Under-Bridge Inspection Vehicle (21,773 Kg. GVWR)
T88	Specifications for Tandem Axle with Driving Front Axle Cab and Chassis (20,800 Kg. GVWR)
T88	Specifications for Tandem Axle Cab and Chassis (20,800 Kg GVWR)
T91	Specifications for a Single Axle Cab and Chassis
T91	Specifications for 28,500 lb. GVWR Truck and Wrecker Recovery System
T96	Specifications for a 50,000 lb. GVWR, Tandem Axle, Tilt Cab, Truck and Thermoplastic Hwy Striping Machine
T96	Specifications for a Tandem Axle, Tilt Cab, Truck Equipped With Spray Thermoplastic Long-Line Highway Striping Machine
T96	Specifications for Tandem Axle, Tilt Cab, Line Striping with Combination Center and Edge Line Capability (25,300 Kg GVWR)
T98	Specifications for a 35,000 LB. GVWR Truck Chassis for Digger Derrick Remount
T98	Specifications for a Center Mounted Digger Derrick with 4,500 Kg Capacity and 12.8 Meter Reach
T98	Specifications for Cab and Chassis, Platform Body, and Remount of Digger Derrick
T98	Specifications for a C.C. Chassis & Corner Mtd. Digger Derrick W/ 4,500 Kg. Cap. and 12.8 Meter Reach
T98	Specifications for Center Mounted Digger Derrick with 6,804 Kg. Capacity and 18.2 Meter Reach

**3. KANSAS**

If anyone has a question about the specifications for Kansas, please contact –

Mark Karolevitz@vitz@ksdot.org

**4. KENTUCKY**

If anyone has a question about Kentucky's specifications, please contact –

Rick.Durham@ky.gov or Roger.Conn@ky.gov

**5. MINNESOTA**

Minnesota's equipment specifications can be found on Minnesota's Web-Page –

[www.dot.state.mn.us/equipment](http://www.dot.state.mn.us/equipment)

## EQUIPMENT SPECIFICATIONS

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### 6. MISSISSIPPI

Specifications Number	Date	Title
034-ACR-180D-2020/110	08/15/2005	Air Compressor/Trailer Mtd
042-RTAP-10/19-2035/120-BB2	08/04/2005	Asphalt Paver
045-APFC/TL-48	10/09/2002	Asphalt Planer w/Trailer
050-VGFET/H-6000	11/18/2002	Grav Fed Emul Tank 6000
054-ASSP-TM-2035/110	07/06/2004	Pothole Patcher
059-IPH-TM	07/15/2002	Infrared Pavement Heater
071-PSHB-60HP-2045/100	07/12/2004	Bulldozer - 60HP
071-PSHB-60HP-2045/100-BB2	07/29/2005	Bulldozer - 60HP
071-PSHB-60HP-2045/100-BB5	07/29/2005	Bulldozer - 60HP
072-PSLB-140HP	07/30/2003	Bulldozer
072-PSLB-140HP-2045/102-BB7	07/29/2005	Bulldozer - 140HP
072-PSLB-90HP	12/18/2003	Bulldozer
072-PSLB-90HP-2045/101-BB6	07/29/2005	Bulldozer - 90HP
083-BC12-TM-2050/110	02/04/2005	12" Brush Chipper/Trailer Mtd
119-LBC-RTCM-30T-6x6	08/28/2003	Lattice Boom Crane
128-HECM-82HP/10T-2095/100	03/25/2004	Trackhoe
129-HECM-140HP/24T-2095/110-BB2	07/29/2005	Trackhoe
129-HECM-140HP/24T-2095/110-BB5	09/23/2005	Trackhoe
129-HECM-145HP/24T	12/19/2003	Trackhoe
129-HECM-90HP/14T-2095/100	03/25/2004	Trackhoe
129-HECM-90HP/14T-2095/100-BB2	08/08/2005	Trackhoe
129-HETM-100HP-1CY-2095/110	07/30/2004	Trackhoe
129-HETM-90HP/14T-CFMC	03/11/2003	Trackhoe
164-M15-PSA-110HP	08/15/2002	Motor Grader/15,000/110HP
164-M25-PSA-135HP-3020/105	04/06/2004	Motor Grader/26,000/135HP
164-M25-PSA-135HP-3020/105-BB1	07/29/2005	Motor Grader/26,000/135HP
164-M25-PSA-135HP-3020/105-BB2	07/29/2005	Motor Grader/26,000/135HP
164-M25-PSA-135HP-3020/105-BB3	07/29/2005	Motor Grader/26,000/135HP
164-M25-PSA-135HP-3020/105-BB5	07/29/2005	Motor Grader/26,000/135HP
164-M25-PSA-135HP-3020/105-BB6	07/29/2005	Motor Grader/26,000/135HP
164-M25-PSA-135HP-3020/105-BB7	07/29/2005	Motor Grader/26,000/135HP
164-M30-PSA-3020/105	03/25/2004	Motor Grader/30,000/140HP
211-SSL/FL-13D	09/22/2003	Skid Steer Loader w/Forks
211-SSL-17D-21	09/22/2003	Skid Steer Loader
211-SSL-2500-2070/100-BB2	08/04/2005	Skid Steer Loader
212-BFEL/MFWD-10014E-CAC-3065/110-BB1	05/01/2005	Backhoe Buy-Back
212-BFEL/MFWD-10014E-CAC-3065/110-BB3	05/01/2005	Backhoe Buy-Back
212-BFEL-10014E-CAC-3065/100-BB2	05/01/2005	Backhoe Buy-Back
212-FELB/MFWD-10014E-4N1-CAC	08/01/2003	Backhoe
212-FELB/MFWD-10014E-4N1-CAC	07/15/2002	Backhoe
212-FELB/MFWD-10014E-CAC-OPT-3065/110	03/25/2004	Backhoe
212-FELB/10014E-4N1-CAC	07/15/2002	Backhoe
212-FELB-10014E-CAC-OPT	07/25/2003	Backhoe
212-FELB-10014E-CAC-OPT-3065/100	03/25/2004	Backhoe
212-FELB-10014E-GP-CAC	07/23/2001	Backhoe
217-AFEL-140HP-300GP	07/30/2001	Art FE Loader-140HP-3CY
217-AFEL-160HP-350GP	09/15/2003	Front End Loader
217-AFEL-160HP-350GP-2075/120-BB7	05/01/2005	Front End Loader
218-AFEL-2.0/4N1MP	08/07/2003	Front End Loader
218-AFEL-2.0/4N1MP-2075/110	03/25/2004	Front End Loader
219-FFL-3000-2075/200	06/29/2004	Force Feed Loader
254-TMEM-23EXT-CAC-OPT	03/01/2003	85HP Tract/23'Ex/Cutters
254-TMEM-23EXT-CAC-OPT-3095/130	10/10/2005	Tractor w/Extension Mower
254-TMEM-23EXT-CAC-OPT-3095/130	07/06/2004	85HP Tract/23'Ex/Cutters
265-RMMD-10HD	07/15/2002	10' Wing Mower w/Options
265-RMMD-15HD-4000/120	07/01/2005	15' Wing Mower w/Options
271-HPMJ-225-4010/100	07/06/2004	Pavement Mud Jack



## EQUIPMENT SPECIFICATIONS

Mississippi (continued)

### Specifications

Number	Date	Title
282-PD1H/L/D-14000	09/15/2003	Pile Driving Impact Hammer
334-VSWR-12TD-4065/205	06/25/2004	Vib/Steel Roller/12 Ton
335-SWR-12TD	07/15/2002	Steel Wheel Roller - 12 Ton
337-VSWR-14/15TD	12/19/2003	Vib/Steel Roller/14/15 Ton
342-PTR-9W-15T	07/23/2001	Pneu.Roller/9W/15 Ton
345-PTR-PT-15TD-4065/110	02/01/2005	Pneumatic Tire Roller/Pull
372-PSW-5TD	02/18/2004	Portable Tandem Roller
405-MPD-3PTH-4045/150	07/01/2005	Mechanical Post Driver
407-DWC-MT	01/16/2004	Dual Wheel Conversion
451-SPHR-12TH 5020/100	03/25/2004	Snow Plow
461-SPCS-12-5035/100	07/22/2005	Self-Propelled Chip Spreader
491-SSA-8HD-5035/200	03/25/2004	Tailgate Spreader
502-TPSM-MD/TM-1030/311	09/26/2005	Thermo Striping/Medium Duty
502-TPSM-TM	12/18/2003	Thermo Striping/Truck
502-TPVMS-5M-SM	08/01/2003	Thermo Melting System
507-TPAS-M/LL/DT-RO	07/15/2002	Thermo Application System
511-SSP-72D-5075/100	07/22/2005	Self-Propelled Power Boom
546-TBL-FWDD-7000-3045/110	07/15/2005	Telescoping Boom Lift
567-E3WFL-3500	08/07/2003	Ele 3 Wheel Forklift/3500
567-ERT/FL-3000-3045/100	08/08/2005	Electric Reach Truck
605-WTD/SM-55HR-CAC-3095/110	07/15/2005	55HP/Cab & Air
606-WTHD/LP-62HR-3095/110	07/06/2004	Low Profile 62HP Tractor
606-WTHD-63HR-3095/110	07/06/2004	Standard 63HP Tractor
607-WTD/LR-85HR	08/01/2003	Low Profile 85 HP Tractor
607-WTD/MFWD/LP-85HR-3095/115	07/15/2005	Low Profile 85 HP Tractor
607-WTD/MFWD-85HR-3095/115	07/29/2005	85HP/MFWD
607WTD-85HR-3095/115-BB1	07/29/2005	Standard 85HP Tractor
607-WTD-85HR-CAC-3095/115-BB3	07/29/2005	85HP/Cab & Air
617-PFAB-8VD-5015/210	07/30/2004	Portable Flashing Arrow Board
618-CCC-WJ/V-TM-6015/115	07/29/2005	Culvert Cleaner/Trl Mtd
619-CSD-TRL	07/25/2003	Core Drill Trailer Mtd
633-T20P-30A	07/15/2002	Tag Trailer/10 Ton/36' OAL
633-T20P-35A-6005/230	07/01/2005	Tag Trailer/10 Ton/41' OAL
633-T40P-35A-6005/231	07/01/2005	Tag Trailer/20 Ton/41' OAL
652-RBWB-20	08/21/2002	Roll Back Wrecker/10 Ton
653-SSB/SI-6.3CY	07/19/2002	Spreader Body/Slide In
662-ISME-76	10/09/2002	Intersection Safety Monitoring System
671-LWP-W/TRL	07/23/2001	LW Profiler-w/Trailer
671-SDRPS-86-1020/103	07/01/2005	SD Road Profile System
682-TMA-NCHRP350-5015/100	09/07/2005	Truck Mtd Attenuator
683-4CSLK-SWC	03/01/2005	4 Corner Strobe Light Kit/Statewide Contract
685-PCMS-FM/LED/SP-TRLM-5015/230	01/23/2006	Portable Changeable Message Sign
686-AB/C-TKM-5015/200	09/19/2005	Arrow Board Truck Mtd
687-SMLCS/D-SWC	02/23/2006	Channelizer Contract
689-AED-96	07/25/2003	Automated External Defibrillator
691-PAGPS/TM-66	09/12/2003	Port Above Ground Scale/Trailer
699-RCWSS-66GB	07/28/2004	Radio Controlled WS Sign
716-HGPS-76	08/15/2002	Handheld GPS
716-NAVSTAR-GPS/SSS	07/29/2002	GPS Satellite Surveying
717-EDM-TS	07/23/2002	Total Station
717-ETS-CG-1080/120	07/28/2004	Total Station/Const Grd
717-RTS-DC/SW-25-1080/120	09/28/2005	Robotic Total Station
731-NDG-3430	07/17/2002	Nuclear Density Gauge
731-NDG-3440	07/17/2002	Nuclear Density Gauge
731-NDG-3450	09/25/2003	Nuclear Density Gauge
736-PGC-SP	08/15/2002	Portable Gyrotory Comp
738-DCCM-2301	07/15/2002	Digital C-C Comp Tester

## EQUIPMENT SPECIFICATIONS

Mississippi (continued)

<b>Specifications</b>		
<b>Number</b>	<b>Date</b>	<b>Title</b>
739-ACOCFPT-72	08/19/2002	Auto Cleveland Open Cup
739-GWCO-72	07/24/2001	Glassware Cleaning Oven
739-PDA-PALR-7500/100	N/A	Pile Driving Analyzer
739-UCMA-SUPER/L	08/15/2002	Upgrade Comp Machine
739-UTODI-E/TS	08/15/2002	Upgrade Tensile Machine
739-V/SPM/RCM-72-7500/100	01/12/2006	Spectrophotometer
739-XFS-72	08/16/2002	X-Ray Spectrometer
741-ENCS-TSD400	08/14/2002	Engineering Copier
742-DSLR-D100	08/09/2002	Digital SLR Camera
743-AX3.5ES/DVDR/CD-67	08/15/2002	Digital Editing System
749-MFC/KIM30-9620	07/09/2002	Microfilm Camera
757-RT-R/I-200	07/23/2001	Radio Tower Removal/Installation
763-AC3203-22-1030/277	08/09/2005	Utility Crane/Installed
763-SML/TP-18000	07/23/2001	Surface Mtd Lift 18,000 Lbs.
764-HMS-96	08/13/2001	Hydro-Mechanical Shear
785-AFM-96	12/20/2002	Auto Folding Machine
785-CTP-96-5054/100	06/15/2005	Plate System
785-EPPC-96-5045/999	06/15/2005	Paper Cutter
785-FCOP-96-5045/100	4/29/2004	4 Color Offset Press
785-TCOP-QM46/2-96	07/09/2002	Two Color Press
801-ABTM-29DAA-1030/100	07/06/2004	Aerial Bucket Truck
804-A/AB-TM-65DAT-1030/102	07/06/2005	Articulated Bucket Truck
804-AMH/B-40DAT-TM-1030/101	03/01/2005	Aerial Material Handler
808-ADTM-70DAT	08/15/2003	Aerial Device Platform/70' WH
816-PS/WB-TM/19,500-1030/310	09/26/2005	Paint Striper/TM/19500 GVW
822-MSS-TM-5075/110	09/23/2005	Mechanical Street Sweeper
838-ADTM-15HD	07/15/2002	Asphalt Dist/Truck Mtd
841-RD/RTCM-72	08/15/2002	Rotary Drill/Carrier Mtd
841-TMCD/Asphalt-4WD	09/02/2003	Truck Mounted Core Drill/4WD
849-GRPD/P-TKMT-1030-341	07/06/2004	Guard Rail Truck
851-RDB-56CA-2CY-1030-170	07/22/2005	2 CY Dump Body
851-RDB-60CA-CC-1CY-1030/170	08/01/2005	2 CY Dump Body
851-RDB-60CA-STD-2CY	07/15/2002	2 CY Dump Body
853-RDB-84CA-7CY-1030/180	07/22/2005	7 CY Dump Body
859-RDB-108CA-12CY-1030/190	07/22/2005	12 CY Dump Body
862-60CA-17DAA-CC-MSBW-1030/250	08/09/2004	17000GVW/CC/Servb/Winch
862-60CA-17DAA-MSBW-1030/25007/06/2004		17000GVW/Ser Body/Winch
862-84CA-17DAA-MSB	08/08/2003	17000GVW/Ser Body
862-84CA-17DAA-MSBW-1030/25007/15/2005		17000GVW/Ser Body/Winch
868-DDTM-46TD76-1030/141	09/30/2005	Digger Derrick Truck
887-56CA-SB	07/23/2001	Survey Body/14,500 Truck
888-MSBH84-DMRW-24.5/6000-STD-1030/260	07/13/2004	Ser Body/Winch/for 24.5
896-SMV-5/7-1040/100	07/13/2004	Standard Mini Van
901-MSEC/LWB-4500GVWR-ALTF	10/28/2002	Mid-Size Pickup/Alt Fuel
924-108CA-WP	08/24/2001	Wet Pack
924-108CT-50DTT/WO-1030/330	07/20/2005	52000GVW/Truck w/Options
925-108CA-52DAS-1030/190	07/15/2005	52000GVW/108CA/Tandem
931-TALB-30THR-6005/211	07/15/2005	30 Ton Lowboy Trailer
933-TAT-50T-WO-6005/240	06/25/2004	50 T Traveling Axle Trailer w/Options
934-TRIAD-20/22-6005/222	07/15/2005	Triple Axle Dump Trailer
939-DNLB-50T-6005/212	07/06/2004	Drop Goose Neck/50 Ton
939-FGNT-50T-PMW-6005/212	07/15/2005	FX Goose Neck/50T/Pav/WD
980-CSU/TKMT-1035-WO-1030/400	01/23/2006	Chemical Spray Unit
980-CSUS/TKM-2000-1030/400	03/13/2006	Chemical Spray Unit
983-CSP/SKDMT-1000	08/19/2005	Chem Spray Unit/Skd Mnt
983-CSUS-100GPM15-1030/400	07/28/2004	Chem Spray Unit/Skid Mnt
991-KBLL-TM-1030/150	10/26/2005	Knuckleboom Log Loader/Trkmt

EQUIPMENT SPECIFICATIONS

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Mississippi (continued)

**Specifications**

**Number** **Date** **Title**

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## EQUIPMENT SPECIFICATIONS

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### 7. NEW YORK

<u>Group #</u>	<u>Type Code</u>	<u>Description</u>
40400	0039	Automobiles
40500	0040	5 Passenger Minivan
	0114	Small Pickup 4X2 Ext. Cab
	0055/56	Suburban Truck
	0117	Small Pickup 4X2 Reg. Cab
	0100	Pickup Truck
	0102	Pickup 6 Person
	0106	Pickup Utility
	0113	Pickup Tow Vehicle
	0119	Pickup Dump 6 Person
40533	0121	Tower Truck Platform
	0123	Tower Truck w/artic
40500	0210	Small Dump Truck 6 Person
	0216	Small Dump Truck 6 Person w/gate
	0326	Lg. Dmp w/p 8887 40 GVW
	0327	Lg. Dmp w/p 8888 40 GVW
	0347	Lg. Dmp r/wing 1/way patrol
	0355	Trk 4x2 5th whl w/plow
	0366	Lg. Dmp trk. wing rev. patrol
	0426	Lg. Dmp w/p 8887 60 GVW
	0500-7	Small Stake Truck
	0510	Stake Truck 6-man
	0511/512	Stake Winch/Crane 6 person
	0600+	Large Stake Truck
	0721	Minivan
	0723	Minivan - Bridge Insp.
40502	0750	Power Wagon 4x4
40533	0865/67	Boom Truck
	0870	Underbridge Insp. Unit
42300	0943-44	Trailer, Lowbed
	0945	Lowboy Tri 35 Ton
	0984	Arrowboards
41400	1125/33	Port Compressor 185 CFM
41103	2100-01	Excavator long reach
	2104	Excavator single eng. 4x2
40601	2655	Tractor Ind 55 HP
	2764	Ind Tractor (ldr bhoe)
40603	3725-38	Med Loader 1 yd bkt
40604	3740	Skid Loader 1/4 yd.
37000	5516	Mower Tractor (over rail)
	5604	Mower Fail 6' (att), tow rtr 80"
	5605	Tow Rotary 15'
41306	7268-69	Patch Heater
	7278	Asphalt Storage
41300	7544	Patch Roller 5-Ton
41306	7681	Vibratory Roller 1-1/2 T w/trl
43231	7711	Concrete Saw
42900	8042-43	Wood Chipper
42901	8120-21	Stump Cutter
44000	8145	Catch Vac

**8. NORTH DAKOTA**

North Dakota's up-to-date specifications that are on existing contracts can be found at the following website.

[www.state.nd.us/csd/spo/contracts/tcname.htm](http://www.state.nd.us/csd/spo/contracts/tcname.htm)

For further information, please contact Mike Kisse at the following email address:

[mkisse@state.nd.us](mailto:mkisse@state.nd.us)

## EQUIPMENT SPECIFICATIONS

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### 9. OHIO

<u>Type</u>	<u>Title</u>
101	Sedan, Standard
111	Station Wagon, Standard
113	Station Wagon, Carry/All
132	¼ Ton, 4 Wheel Drive
201	Van, Mini, Passenger
203	Van, Cargo
204	Van, 1 Ton, 12-15 Passenger
213	Utility Truck, 1 Ton
214	Utility Truck ¾ Ton and Over
221	Pickup, 1/2 Truck
222	Pickup, ¾ Ton
223	Pickup, 1 Ton
231	Stake, 1 Ton, Standard
232	Stake, 1 Ton, w/Lift Gate
233	Stake, 1-1/2 & 2 Ton, Standard
234	Stake, 1-1/2 & 2 Ton, w/Lift Gate
235	Refueler, Aircraft, Truck Mtd.
241	Welder, Truck
242	Wrecker
253	Dump Truck, 10000-24999 GVW
254	Dump Truck, 25000-35000 GVW
256	Dump Truck, Tandem Axle
257	Dump Truck, Cab Over Engine 9000 Kg
258	Stake Truck, Hybrid
262	Truck Tractor, Over 50000 GVW
270	Trailer, Under 7 Ton
271	Trailer, 7 to 10 Ton
272	Trailer, Over 10 Ton
273	Wetting System-Semi Type
280	Trailer, Semi-Van 10-15 Ton
281	Trailer, Semi-Van Over 15 Ton
282	Trailer Fair
290	Aerator, Tractor Mtd.
304	Solar Pwr. Port Barricd-Speed
305	Planer, Cold, Mnt.
306	Mobile Radio Station
307	Flagger, Elect. Remote Control
308	Solar Pwr. Port Barricd-Msg. Cnt.
309	Traffic Signal, Portable
310	Barricade-Portable-Msg. Cnt.
311	Backhoe, Tractor w/Loader
312	Backhoe, Truck Mtd.
313	Ball, Drop
314	Barricade Portable
316	Barricade Electricade 1500W Mtd.
317	Blade, Dozer, Bull or Straight
319	Boat
320	Broom, Towed & Pushed Type
321	Broom, Self Propelled
322	Attenuator, Truck Mounted
324	Scrubber, Floor Self Propelled
325	Broom, Hand-Held
326	Blower, Wheeled, Push Type
330	Bucket, Aerial, Hyd. Mtd.
340	Chipper, Brush
354	Cleaner, Flusher, Vacuum, Mtd.
355	Cleaner, Sewer-Hi. Vel.-Trl. Mtd.
356	Debris/Litter Remover, Tow Type

## EQUIPMENT SPECIFICATIONS

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Ohio (continued)

<b>Type</b>	<b>Title</b>
370	Compressor Under 125 CFM
371	Compressor 125 CFM
372	Compressor Over 125 CFM
381	Conveyor, Belt, Canvas, Metal, Rub
382	Traffic Cone Retriever Trk. Mtd.
391	Crane, Wheeled, ½ Yd.
393	Crane, Wheeled, Mtd. ¾ Yd., Up
395	Crane, Hydr. Boom, Truck Mounted
403	Curber, Bituminous & Concrete
410	Cutter, Asphalt
411	Cutter, Sod
412	Cutter, Stump
413	Cutter, Concrete 2-4" Groove
420	Digger, Derrick, Trk. Mtd.
421	Digger, Posthole, Tractor Mtd.
422	Digger, Posthole
430	Distributor, Low Press. Mtd.
431	Distributor, High Press. Mtd.
432	Distributor, Trl. Mtd.
440	Ditcher/Trencher
441	Ditcher/Trencher, Self-Propelled
449	Earth Drill, Trailer Mounted
450	Drill, Earth Auger, Trk. Mtd.
452	Drill, Core, Trk. Mtd.
454	Drill, Portable Gasoline/Elect.
460	Driver, Post
461	Puller, Post
470	Excavator, Light
471	Excavator, Heavy
480	Forklift, All Sizes
485	Fork, Pallet, All Sizes
490	Grader, Small, Under 13000 Lbs.
491	Grader, Med., 13000 to 23000 Lbs.
492	Grader, Large, over 23000 Lbs.
506	Hammer-Breaker, Hyd., Backhoe Mtd.
512	Hammer, Pile Driver
530	Heater, Aggregate
533	Pavement, Hot Air Torch Heater
534	Heater, Bump
540	Jack, Mud
550	Kettle, Tar, Under 300 Gal.
551	Kettle, Tar, Over 300 Gal.
560	Ladder, Aerial, Truck Mtd.
580	Lift, Litter
590	Loader, Front, Tractor Attach.
591	Loader, Skid Steer
592	Loader, Front End, Self 4WH
593	Loader, Front End, Crawler
598	Loader, Force Feed
610	Maintainer, Tractor Mtd.
612	Landscape Box, Tow Type
615	Milling Machine, Pavement
621	Mixer, Concrete
630	Motor, Outboard
635	Tree Mover, Trl. Mtd.
640	Mower, Rotary, Tow Type 10-20'
641	Mower, 60" & Over, Front, Riding
642	Mower, Ext. Type, Rotary or Flail
643	Mower, Rotary, Belly

## EQUIPMENT SPECIFICATIONS

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Ohio (continued)

<b>Type</b>	<b>Title</b>
644	Mower, Rotary, Tow Type
645	Mower, Flail/Hammer Knife, Towed
646	Mower, Cutter Bar, Tractor Mtd.
647	Mower, Under 60", Riding
648	Mower, Under 60", Self-Propel
649	Mower, Under 60", Cutter Bar
650	Mower, Rotary, Over 60"
652	Mower, Flail, 72" Dual Side Mtd.
654	Mower, Rotary, Side Mtd., 60" & Over
655	Ditcher, Attachment
657	Patcher
658	Push Weed Eater
661	Plant, Light, Over 5 KW
670	Plow, Farm Type
679	Plow, Snow, 7-9' Pwr. Rev.
680	Plow, Snow, 7' & Under
681	Plow, Snow 7-10'
683	Plow, Snow, Power Rev., 10'
685	Plow, Snow, 11'
686	Plow, Snow, Power Rev., 11'
687	Plow, Snow, 12-13'
688	Plow, Snow, Power Rev., 12'
689	Plow, Snow, V-Truck Mtd.
690	Plow, Snow, V-Grader Mtd.
691	Plow, Snow, Blower, Truck Mtd.
692	Plow, Snow, Blower, Walk Type
693	Under-Chassis Snow Plow
710	Pump, Water, Under 2"
711	Pump, Water, 2"
712	Pump, Water, 3"
713	Pump, Water, 4" & Over
730	Remover, Paint
732	Remover, Road Reflector
745	Asphalt Reclaimer
746	Asphalt Reclaimer, Trailer Mtd.
750	Roller, Compaction
751	Roller, 1-3 Ton
752	Roller, Patch, 4-6 & 5-8 Ton
754	Roller, 7-12 Ton, 3-Wheel
755	Roller, Sheepfoot
756	Roller, Trencher
758	Roller, Walk Behind, Self-Propelled
759	Roller, Tow Type
771	Saw, Concrete, Walk Behind
774	Saw, Hydraulic, Chain Type
776	Gas Powered Pruner, Hand Held
780	Sealers, Pavement Joint
781	Crack & Joint Groover & Router
785	Blade, Scraper, Tractor Mtd.
788	Straw Crimper
790	Seeder, Hydro
791	Seeder, Tow Type
792	Seeder, Power Harrow
801	Shredder, Soil & Mulch
810	Sprayer, Chem., 600 Gal. or Less
811	Sprayer, Chemical, Over 600 Gal.
813	Spreader, Dump Body Conveyor
814	Spreader, Berm, Chip
815	Electric Spreader, Tractor Mtd.



## EQUIPMENT SPECIFICATIONS

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Ohio (continued)

<b>Type</b>	<b>Title</b>
816	Wetting System-Pre
817	Wetting System-Combination
818	Spreader, Salt
819	Liftgate, Portable, Hydraulic
820	Spreader, Aggregate, Chip & Grit
821	Spreader, Ice Cntrl., Hydr. 78"
822	Spreader, Tailgate, Hydr. 84"
823	Wetting System-Direct Application
824	Spreader, Ice Cntrl., Hopper Type
825	Spreader, Zero Velocity
826	Spreader, Mulch
827	Spreader, Patch
829	Spreader, Under Tailgate
830	All Purpose Dump Body w/Belt A
831	Spreader, Stone Chip, Tow Type
832	Spreader, Stone Chip, Self Pro
833	Hopper Stainless Steel
834	Hopper, Stainless Dual Auger
835	Straightener, Guard Rail
836	K-Kit
840	Striper, Centerline, Walk Type
841	Striper, Centerline, Truck Mtd.
842	Paint Remover, Walk Behind
843	Palletized, Truck Mtd., Striper
845	Tester, Road Grip
855	Tamper, Vibratory, Patch
857	Water Tank, Over 500 Gal., Trk. Mtd.
860	Tank, Water, Under 500 Gal.
861	Tank, Water, Over 500 Gal.
862	Tank, Fuel, Skid Mtd., Under 500 Gal.
863	Tank, Fuel, 500 Gal. & Over
871	Tiller, Disc
872	Rockhound
880	Tower, Aerial, Hyd.
885	Tower, Aerial, Hyd. Under Bri.
888	All Terrain Vehicle, 4 Wheeled
889	All Terrain Vehicle, 6 Wheeled
890	Tractor, Under 140 CI
892	Tractor, 165-190 CI
893	Tractor, 190 CI & Over
894	Tractor, Crawler, Under 10 Ton
895	Tractor, Crawler, Over 10 Ton
930	Welder, Portable, 200-300 AMP
940	Wing, Snow
998	Portable Fuel Tanks
999	Universal (Fits All Equipment)

## EQUIPMENT SPECIFICATIONS

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### 10. PENNSYLVANIA

<b>EQUIPMENT CLASS CODE</b>	<b>CLASS NAME</b>	<b>TYPE NAME</b>
A 13 BP	CREW CAB	FLAT BED
A 13 BU	CREW CAB	GENERAL PURPOSE
A 13 FJ	CREW CAB	UTILITY
A 13 FR	CREW CAB	SURVEY
A 15 BU	DUMP	GENERAL PURPOSE
A 15 CM	DUMP	LEFT WING CAPABLE
A 15 DU	DUMP	RIGHT WING CAPABLE
A 15 FH	DUMP	UNDER BODY CAPABLE
A 15 IS	DUMP	CREW CAB
A 36 BP	PICK UP	FLAT BED
A 36 BU	PICK UP	GENERAL PURPOSE
A 48 AD	SPECIAL PURPOSE	AERIAL LIFT
A 48 CD	SPECIAL PURPOSE	HERBICIDE SPRAY CHASSIS
A 48 CG	SPECIAL PURPOSE	HIGHWAY WRECKER
A 48 CU	SPECIAL PURPOSE	LUBRICATOR
A 48 DI	SPECIAL PURPOSE	PAINT SUPPLY
A 48 DQ	SPECIAL PURPOSE	POST DRIVER GUARDRAIL
AA1 BU	TANDEM DUMP	GENERAL PURPOSE
AA1 CK	TANDEM DUMP	LEFT-RIGHT WING CAPABLE
AA1 CM	TANDEM DUMP	LEFT WING CAPABLE
AA1 DU	TANDEM DUMP	RIGHT WING CAPABLE
AA2 AX	BRIDGE INSPECTION	CHASSIS MOUNTED
AA3 AX	ASPHALT PREMIX	CHASSIS MOUNTED
AA4 BU	TRI AXLE DUMP	GENERAL PURPOSE
AA4 CK	TRI AXLE DUMP	LEFT-RIGHT WING CAPABLE
AA4 CM	TRI AXLE DUMP	LEFT WING CAPABLE
AA4 DU	TRI AXLE DUMP	RIGHT WING CAPABLE
AA5 AX	FUEL	CHASSIS MOUNTED
AA6 DB	DISTRIBUTOR	OIL DISTRIBUTER BITUM
AA7 AX	PONY	CHASSIS MOUNTED
AA8 AX	PAINT MACHINE	CHASSIS MOUNTED
AB7 AX	ROAD PATCHER	CHASSIS MOUNTED
AB9 BU	DUMP-UTILITY	GENERAL PURPOSE
AD1 DJ	ANTI-ICING	PARA PLASTIC
AD1 KC	ANTI-ICING	STAINLESS STEEL
B 46 CR	SNOW BLOWER	LOADER
B 46 FB	SNOW BLOWER	TRUCK INTEGRATED
B 47 CB	SNOW PLOW	HEAVY REV PLOW
B 47 CF	SNOW PLOW	HIGH SPEED PLOW
B 47 CL	SNOW PLOW	LEFT WING
B 47 CO	SNOW PLOW	LIGHT REV PLOW
B 47 DC	SNOW PLOW	ONE WAY ADJ 712 PLOW
B 47 DD	SNOW PLOW	ONE WAY ADJ 721 PLOW
B 47 DE	SNOW PLOW	ONE WAY ADJUSTABLE 721B
B 47 DF	SNOW PLOW	ONE WAY ADJ 731 PLOW
B 47 DT	SNOW PLOW	RIGHT WING
B 47 HG	SNOW PLOW	ONE WAY FIXED
B 47 IC	SNOW PLOW	RIGHT BENCHING WING
B 47 ID	SNOW PLOW	ONE WAY BUTTERFLY WING
B 47 IE	SNOW PLOW	HEAVY REV - DOUBLE TAPER
B 50 AY	SPREADER	CHEMICAL ANTI-SKID
B 50 IJ	SPREADER	AIR VELOCITY

## EQUIPMENT SPECIFICATIONS

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Pennsylvania (continued)

<b>EQUIPMENT CLASS CODE</b>	<b>CLASS NAME</b>	<b>TYPE NAME</b>
C 08 AE	COMPRESSOR	AIR
C 23 AK	HEATER	ASPHALT PREMIX
C 23 AM	HEATER	ASPHALT STORAGE TRAILER
C 25 AR	KETTLE	BITUMINOUS
C 25 DJ	KETTLE	PARA PLASTIC
C 29 BC	MILLING	COLD PLANER
C 34 AS	PAVER	BITUMINOUS FINISHER
C 34 CV	PAVER	MAINTAINER
C 34 CY	PAVER	MIXER PAVER
C 43 AI	ROLLER	ARTICULATED VIBRATORY
C 43 EB	ROLLER	RUBBER TIRED
C 43 ER	ROLLER	TANDEM STATIC
C 43 EV	ROLLER	THREE WHEEL STATIC
C 43 FM	ROLLER	VIBRATORY
C 43 JJ	ROLLER	RUBBER TIRE - STEEL WHEEL
C 63 BU	WIDENER	GENERAL PURPOSE
C 95 GO	CHIPPER	STONE
CA 9 GT	PATCHER	BITUMINOUS
CC 2 FM	PATCH ROLLER	VIBRATORY
CC 4 FJ	MIXING PLANT	UTILITY
D 54 BU	TRACTOR	GENERAL PURPOSE
D 55 BM	TRACTOR MOWER	FLAIL
D 55 DZ	TRACTOR MOWER	ROTARY
D 55 EF	TRACTOR MOWER	SICKLE
D 55 EG	TRACTOR MOWER	SICKLE-FLAIL
D 55 EH	TRACTOR MOWER	SICKLE-ROTARY
D 55 HS	TRACTOR MOWER	BOOM
D 64 EA	WOOD CHIPPER	ROTARY CUTTER
E 18 CH	EXCAVATOR	HYDRAULIC
E 18 IK	EXCAVATOR	DUAL WHEEL
E 21 AH	GRADER	ARTICULATED
E 27 AH	LOADER	ARTICULATED
E 27 DV	LOADER	RIGID
E 54 AO	TRACTOR	BACKHOE LOADER COMBINED
E B1 CR	BELT	LOADER
E B2 DV	POWER UNIT	RIGID
E C3 IP	MAINTAINER	SIDE DOZER
F 06 DL	CLEANER	PIPE FLUSHER
F 26 AG	LIGHT	ARROW DIRECTIONAL
F 26 GE	LIGHT	MESSAGE DIRECTIONAL
F 33 CQ	PAINT MACHINE	LINE SPRAYER SUPPLY
F 53 AV	SWEEPER	BROOM TRUCK
F 53 DZ	SWEEPER	ROTARY
G 45 BS	SEDAN	FOUR DOOR
G 51 BU	STATION WAGON	GENERAL PURPOSE
G 59 BU	UTILITY	GENERAL PURPOSE
G 60 BU	VAN	GENERAL PURPOSE
M 57 BP	TRAILER	FLAT BED
M 57 CT	TRAILER	LO-BOY

## EQUIPMENT SPECIFICATIONS

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### 11. TEXAS

A listing of the below, as well as other TxDOT Standard Specifications are posted on the TxDOT Internet site ([www.dot.state.tx.us](http://www.dot.state.tx.us)). They are accessible from the TxDOT home page. Click on the **ABOUT TxDOT**, then **ORGANIZATION CHART**. Click on **GENERAL SERVICES DIVISION**, then **PURCHASING**. This will take you to the **PURCHASING** page.

In addition to the Specifications, you will find the below standard purchasing documents:

- TxDOT Standard Specifications Index/Numerical
- TxDOT Standard Specifications Index/Alphabetical
- Supplemental Specifications and Attachments
- TxDOT Terms and Conditions, Revised March 2004
- TxDOT HUB Subcontracting Plan
- TxDOT HUB Subcontracting Plan Letter of Instruction
- Terms and Conditions for Major Equipment Services with Operator
- Terms and Conditions for the Lease of Major Equipment without Operator
- Terms and Conditions for Original Equipment Manufacturer's Parts
- Form 20.102, Certificate of Insurance
- Form 1950, Certificate of Insurance for Services other than Highway and Building
- Technology Access Clause
- TxDOT Filter and Belt Identification Form
- Payment Bond
- Performance Bond
- Texas End User Signed Statement
- Chassis Manufacturer, Dealer, and Converter Licenses Form

### TxDOT STANDARD SPECIFICATION INDEX

Specification Number	Spec Date	Title of Specification
065-05-16	02/03	Aerial Device, Articulated or Telescoping, Truck Mounted, 28, 30, 32 and 35 foot (Formerly 065-05-02)
065-05-09	12/92	Aerial Device, Articulating Boom, Truck Mounted, 42 or 50 foot
065-05-17	03/98	Aerial Device, Articulating or Telescoping Truck Mounted, 40, 45, and 50 foot (Formerly 065-05-03)
065-05-08	02/95	Aerial Device, Equipped with Hydraulic Elevator Lift, Truck Mounted, 50 foot
065-05-10	04/93	Aerial Device, Telescoping Boom, Truck Mounted, 36 and 40 foot
065-05-05	11/92	Aerial Device, Telescoping Boom, Van Mounted, 28 foot
065-05-22	03/02	Aerial Device, Telescoping with Articulating Arm, Truck Mounted, 35 foot
065-05-13	05/03	Aerial Device, Telescoping with Articulating Lower Boom, 50 and 40 foot
065-05-20	06/99	Aerial Device, Trailer Mounted, Articulated or Telescoping, 28 Foot
065-05-18	11/99	Aerial Device, Truck Mounted, 60 and 65 foot (Formerly 065-05-04 - Vol. 1 / 2 )
060-03-22	12/99	Antifreeze/Coolant, Extended Life
755-06-23	06/02	Applicator, Marker Adhesive, Bitumen Type, Trailer Mounted (Formerly 755-10-06)
755-06-25	08/00	Applicator, Marker Adhesive, LPG Fired (Formerly 755-10-08)
765-61-18	06/00	Attachment, Blower, Snow, Self-Contained, for Mounting on 3 Cubic Yard Pneumatic-Tired Loader
550-42-09	11/02	Attenuator, Crash, Class II and III, Truck Mounted (Replaced Obsolete 550-42-02)
780-95-89	07/00	Bending Plate, Weigh-in-Motion, Traffic Data Collection System
765-24-01	10/93	Bits, Diamond Core, Thin Wall, Non Resettable for Concrete Pavement Drilling
120-21-35	06/99	Boat, Fiberglass, Deep V-Hull
065-65-03	06/92	Body, Oilfield, Fifth Wheel, for Truck Chassis Mounting
065-65-55	05/97	Body, Oilfield, Platform, Fifth Wheel, for Single Axle Truck Chassis (Formerly 065-65-02)
065-30-35	07/02	Body, Special Materials Handling, Hydraulically Operated, Truck Mounted, 4 or 5 cubic yard (Formerly 065-30-01)

## EQUIPMENT SPECIFICATIONS

Texas (continued)

Specification Number	Spec Date	Title of Specification
065-90-01	06/96	Body, Van, Aluminum Skin, 22 foot for Mounting on a minimum 32,000 lb. GVWR Cab and Chassis
765-49-04	03/94	Breaker, Paving, Pneumatic
765-49-02	12/93	Breaker, Tool, Drill and Rock Combination
070-18-27	01/01	Carrier, Personnel/Cargo, Two or Four Wheel Drive, Off Road Type (Formerly 070-18-02)
070-18-28	12/00	Carrier, Personnel/Cargo, Two-Wheel Drive for Office Complex Use
020-04-28	03/03	Chipper, Brush, Disc or Drum Type, 18 inch branch capacity, Trailer Mounted
020-04-27	03/01	Chipper, Brush, Disc Type, 12 inch (30 cm) branch capacity, Trailer Mounted (Formerly 020-04-03)
670-61-28	06/98	Cleaner, Culvert and Drain, Jet Action
670-61-29	07/02	Cleaner, Culvert and Drain, Jet Action, Trailer Mounted
025-50-40	01/00	Compressor, Air, Diesel Powered, Trailer Mounted, 100, 125 or 185 CFM (Formerly 025-50-01)
025-50-41	06/03	Compressor, Air, Diesel-Powered, Trailer Mounted, 250-CFM or 365-CFM (Formerly 025-50-02)
765-13-26	06/95	Crane, Bridge, Mobile, Tower Type, minimum 42 foot horizontal reach
765-13-27	06/95	Crane, Bridge, Mobile, Tower Type, minimum 65 foot horizontal reach
065-94-37	09/00	Crane, Electric / Hydraulic, 3,200 pound capacity @ 3 foot radius, for Truck Mounting (Formerly 065-94-05 and 065-94-07)
065-94-01	02/94	Crane, Electric, 2,000 pound capacity, for Truck Mounting
065-94-36	10/95	Crane, Electric, minimum 4,000 pound capacity @ 4 foot radius, for Truck Mounting (Formerly 065-94-06)
765-13-88	06/98	Crane, Heavy Duty Lift Capacity, 3,500 pounds at 80 Degree Boom Angle, Truck Mounted
560-39-01	11/94	Crane, Overhead
765-13-36	01/00	Crane, Self Propelled, Deck Type Hydraulic, 8.5 ton (Formerly 765-13-09)
765-13-24	06/98	Crane, Underbridge, Articulated and Telescoping, minimum 60 foot horizontal reach (Formerly 765-13-12)
929-33-27	04/01	Cranes, Inspection and Testing (Formerly 929-16-02)
845-12-53	02/02	Data Recording System, Falling Weight Deflectometer System
220-84-25	06/99	Data Recording System, Seismic Pavement Testing System
765-13-86	06/03	Derrick, Digger, Bare Boom, Lift Capacity, 20,000 pounds, Hydraulic Rotating @ 78 degree Boom Angle with Turrent Mounted Winch (Formerly 765-13-06)
765-13-39	06/03	Derrick, Hydraulic, Rotating, Bare Boom, Lift Capacity, 24,000 pounds @ 80 degree Boom Angle with Turrent Mounted Winch
765-08-38	04/02	Drill, Core, Diesel Powered, Frame Mounted Pavement Test Core Drill
765-08-40	04/99	Drill, Core, Portable, Gasoline Powered (Formerly 765-08-02)
545-57-01	02/94	Drill, Earth, Gasoline Powered, Minimum 5 HP
545-57-36	03/99	Drill, Earth, Trailer Mounted
760-20-41	07/03	Earth Boring Machine, 20 Foot Mechanical Drive
760-20-38	06/92	Earth Boring Machine, 10 Foot, Mechanical Drive, (Formerly 760-20-07)
760-90-35	05/00	Excavating and Grading Machine, Carrier Mounted, Class II (Formerly 760-90-02)
760-90-36	03/04	Excavating and Grading Machine, Carrier Mounted, Class III (Formerly 760-90-03)
760-90-37	10/02	Excavating and Grading Machine, Carrier Mounted, Two-Wheel and All-Wheel Drive, Class I (Formerly 760-90-01 and 760-90-01SP)
760-90-38	05/98	Excavator, Hinged Boom, Crawler Mounted, 26,000 pound operating weight (Formerly 760-90-06)
760-90-41	06/99	Excavator, Telescoping Boom, Crawler Mounted, 26,000 Lb., Operating Load
450-77-73	06/97	Fabric, Tarpaulin (Formerly 265-46-01)
560-75-39	05/00	Forklift, Truck, 4,000 pound capacity (Formerly 560-75-03)
560-75-45	06/97	Forklift, Truck, Electric Powered, 3,500 and 4,000 pound capacity (Formerly 560-75-10)
560-75-46	06/00	Forklift, Truck, Electric Powered, 5,000 pound capacity
560-75-42	12/98	Forklift, Truck, Electric Powered, Reach, 4,000 pound capacity
560-75-43	11/97	Forklift, Truck, Electric Powered, Standup Rider, 3,000 pound capacity (Formerly 560-75-02)

## EQUIPMENT SPECIFICATIONS

Texas (continued)

Specification Number	Spec Date	Title of Specification
560-75-48	03/97	Forklift, Truck, Piggyback Type, 5,000 pound capacity
560-75-41	07/02	Forklift, Truck, Tractor Type, Rough Terrain, 6,000 and 8,000 pound capacity (Formerly 560-75-07)
405-09-35	01/02	Fuel, Automotive (Unleaded Gasoline, Reformulated Unleaded Gasoline, and Diesel) Specifications, Terms and Conditions (Formerly 405-09-15-87)
405-09-39	03/03	Fuel, Ultra Low Sulfur, Texas Low Emission Diesel Specifications, Terms and Conditions
760-06-39	04/04	Grader Blades (Formerly 760-06-01)
760-33-36	10/99	Grader, Motor, Class I (Formerly 760-33-01)
760-33-37	09/02	Grader, Motor, Class II (Formerly 760-33-02)
760-33-38	10/02	Grader, Motor, Class III (Formerly 760-33-03)
760-33-39	10/02	Grader, Motor, Class IV (Formerly 760-33-04)
020-71-42	06/96	Gunning Machine, Seed, Wet Mix Type, Tandem Axle, Trailer Mounted (Formerly 020-71-02)
992-19-46	11/03	Inspection and Testing of Aerial Devices and Cranes with Aerial Platforms (Formerly 992-46-16)
765-41-47	06/98	Jack, Mud, Gasoline Powered, Trailer Mounted
755-20-47	11/02	Kettle, Melting, Asphalt, Diesel Fired, Class I and II, Trailer Mounted (Formerly 755-20-05 and 755-10-45)
545-33-37	12/97	Lathe, Engine, Swing Over Bed, Heavy Duty, minimum 17 inch
755-60-34	05/00	Laying Machine, Curb, Automatic Slipforming and Extruding
075-44-43	03/01	Lift, 4-Post, Truck, Electric/Hydraulic, 30,000 Pound Lift Capacity
545-39-35	04/99	Lift, Hydraulic Vertical Platform Body (Formerly 545-39-01)
065-68-47	05/98	Lift, Tailgate, Electric / Hydraulic, 1,000 pound capacity (Formerly 065-68-04)
550-96-46	11/97	Light, Warning, Bi-Directional, Battery Powered, Type "A" Flashing and Type "C" Steady Burn (Formerly 550-96-01)
055-57-83	01/98	Light, Warning, Rotating Incandescent, 360 degree, Permanent Mount
055-57-84	09/00	Light, Warning, Strobe, 360 degree, Magnetic Mount (Formerly 055-57-03)
055-57-86	09/00	Light, Warning, Strobe, 360 degree, Permanent Mount (Formerly 055-57-01)
405-03-48	06/01	Liquefied Petroleum Gas (LPG) with Lease Tank
765-85-45	07/02	Loader, Crawler, 1-1/4 and 1-1/2 cubic yard (Formerly 765-85-02)
765-85-48	02/02	Loader, Crawler, 2 cubic yard (Formerly 765-85-03)
765-85-04	05/94	Loader, Crawler, 2.6 cubic yard
760-51-31	10/99	Loader, Pneumatic Tired, 2 Cubic Yard (Formerly 760-51-02)
760-51-30	09/99	Loader, Pneumatic Tired, 2.5 Cubic Yard
760-51-32	06/00	Loader, Pneumatic Tired, 3 Cubic Yard (Formerly 760-51-03)
760-51-01	11/94	Loader, Pneumatic Tired, 5,100 pound operating load
760-51-33	09/02	Loader, Pneumatic Tired, Skid Steer Type, 1,200 and 1,700 pound operating load (Formerly 760-51-05)
760-51-34	06/02	Loader, Pneumatic Tired, Skid Steer Type, 1,874 and 2,300 pound operating load
760-51-36	09/02	Loader, Pneumatic-Tired, Skid Steer Type, 3,500 Lb. Operating Load
405-87-58	06/00	Lubricants, Engine Oil and Grease, Re-Refined (Formerly 405-39-01, Vol. I/II)
405-39-23	01/00	Lubricants, Engine Oil and Grease, Virgin (Formerly 405-39-01, Vol. I/II)
545-48-25	06/97	Machine, Milling, Turret, Vertical (Formerly 545-48-01)
755-10-50	06/01	Maintenance Unit, Asphalt, One Man Operated, Truck Mounted, 1,000 gallon or 1,750 gallon, Utility Class or Highway Class (Formerly 755-10-05 - Vol. 1 / 4 )
755-10-49	03/03	Maintenance Unit, Asphalt, Trailer Mounted, 600 and 1,000 gallon (Formerly 755-10-04 - Vol. 1 / 2 )
755-80-31	01/04	Mixer, Concrete, 6 and 9 cubic foot capacity, Trailer Mounted (Formerly 755-80-02, 755-80-03, and 755-8030)
755-80-30	12/02	Mixer, Concrete, Mobile, Truck Mounted, Volumetric Batch
020-66-32	06/00	Mower, Articulated, Side Boom, with Rotary Brush Cutter, for Tractor Mounting (Formerly 020-66-02)
020-15-38	06/03	Mower, Flail, Lift Type, PTO Driven, 88 inch (Formerly 020-15-01)
020-16-58	04/03	Mower, Rotary, 60 and 72 Inch, Lift Type (Formerly 020-16-01)

## EQUIPMENT SPECIFICATIONS

Texas (continued)

Specification Number	Spec Date	Title of Specification
020-16-61	01/04	Mower, Rotary, Hydraulically Driven, 15 foot (Formerly 020-16-04)
020-66-68	05/00	Mower, Rotary, Telescoping Boom, Tractor Side Mounted (Formerly 020-66-01)
020-16-40	01/04	Mower, Rotary, Trail Type, PTO Driven, Heavy Duty, 84 inch Heavy-Duty (Formerly 020-16-02)
755-10-67	07/99	Patcher, Pothole, Asphalt, Truck Mounted, 4 Cubic Yard Capacity (Formerly 755-10-07)
845-12-50	05/97	Pavement Loading Device, Falling Weight Deflectometer System
755-43-55	04/00	Planer, Cold, Track-Mounted (Formerly 755-43-01)
545-39-38	06/99	Platform, Work, Aerial, Scissor Lift, Self Propelled, 32 Foot or 40 Foot (Formerly 545-39-02)
545-39-58	12/00	Platform, Work, Aerial, Scissor-Lift, Electric Powered, Self Propelled, 20 Foot Platform Height
065-05-11	05/94	Platform, Work, Aerial, Self Propelled, 40 foot
765-61-40	05/00	Plow, Snow, Power Reversible Moldboard, General Purpose, 11 foot (Formerly 765-61-01)
765-61-41	06/01	Plow, Snow, Power Reversible Moldboard, High Speed, 11 foot (Formerly 765-61-02)
720-33-01	10/93	Pump and Dispenser, Fuel, Commercial
680-77-62	03/01	Radar Instrument, Solar Assisted/Battery Powered, Trailer Mounted
680-77-61	07/00	Radar Instrument, Speed Measuring Device, Vehicle Mounted
845-49-62	04/01	Radar System, Ground Penetrating
760-26-62	03/03	Reclaimer/Stabilizer, 79 Inch Cut, Diesel Powered, Self Propelled (Formerly 760-26-02)
760-63-42	12/99	Roller, Flatwheel, Steel, Tandem, 8 - 10 and 10 - 14 ton (Formerly 760-63-05)
760-63-41	10/99	Roller, Flatwheel, Tandem, Variable Weight, 6 - 8 Ton (Formerly 760-63-04)
760-63-40	10/99	Roller, Flatwheel, Tandem, Variable Weight, with Retractable Wheels, 4 - 6 ton (Formerly 760-63-02)
760-75-63	08/02	Roller, Self Propelled, Pneumatic Tired, Minimum 27,000 Pound Ballasted Capacity (Formerly 760-75-01)
760-75-64	09/00	Roller, Self Propelled, Pneumatic Tired, Minimum 32,000 Pound Ballasted Weight (Formerly 760-75-02)
760-75-65	07/99	Roller, Tow-Type, Pneumatic Tired, 11 Wheel
760-63-43	04/96	Roller, Variable Weight, 3 Wheel, 8 - 10 ton (Formerly 760-63-03)
760-66-47	01/01	Roller, Vibratory, Flatwheel, Steel, Tandem, 12 ton
760-66-65	01/04	Roller, Vibratory, Flatwheel, Steel, Tandem, Minimum 39 Inch Rolling Width
760-66-67	10/02	Roller, Vibratory, Self Propelled, Single Drum, Pad Foot, Minimum 66 Inch (Formerly 760-66-03)
760-66-68	10/02	Roller, Vibratory, Self Propelled, Single Drum, Pad Foot, Minimum 82 Inch
755-65-74	02/00	Saw, Concrete Pavement, Walk Behind, 65 HP (Formerly 755-65-02)
755-65-73	08/01	Saw, Concrete Pavement, Walk Behind, Self-Propelled
755-30-80	07/03	Shoulder Paver, Self-Propelled
550-14-88	10/02	Sign, Arrow Board Type Traffic Alerting and Channeling Device, Vehicle Cab Mounted (Formerly 550-14-03)
550-14-77	10/02	Sign, Arrowboard, Solar / Battery Powered, Trailer Mounted (Formerly 550-14-05 – Vol. 1 / 2 )
550-14-78	02/03	Sign, Programmable Message, Solar / Battery Powered, LED (Formerly 550-14-06)
550-14-79	01/00	Sign, Programmable Message, Vehicle Mounted
550-14-04	02/94	Sign, Three Line Programmable Message, Diesel Powered, Trailer Mounted
550-14-74	09/00	Sign, Trailer Mounted, Arrowboard, Diesel Powered (Formerly 550-14-01)
493-11-52	06/99	Specification for Gas Chromatograph
810-90-29	02/03	Sprayer, Hand, Compressed Air, Portable (Formerly 810-90-01)
810-93-90	07/03	Spraying Equipment, Water and Chemical, Truck Mounted
765-64-13	05/03	Spreader, Aggregate, Self Propelled (Formerly 765-64-01)
765-66-35	08/00	Spreader, Material, Dual Spinner, Under Tailgate, Hydraulic (Formerly 765-66-02)
765-66-88	08/00	Spreader, Material, V- Box Hopper Type with Conveyor, Self Contained (Formerly 765-66-06)

## EQUIPMENT SPECIFICATIONS

Texas (continued)

Specification Number	Spec Date	Title of Specification
765-72-74	12/98	Striping Machine, Multiple Line, Two Color, Truck Mounted (Vol. 1 / 3 ) (Formerly 765-72-06)
765-72-79	05/95	Striping Machine, Thermoplastic System, Trailer Mounted
765-77-78	05/98	Sweeper, Industrial, Riding Type, Self Propelled, 44 HP (Formerly 765-77-12)
765-77-74	08/00	Sweeper, Road, Self Propelled (Formerly 765-77-02)
765-77-76	05/97	Sweeper, Road, Two Wheeled Tow Type, Engine Powered, with Remote Cab Control (Formerly 765-77-04)
765-77-80	06/03	Sweeper, Street, Four Wheel, Single or Two Engine (Formerly 765-77-07, Vol. 1 / 2 )
765-77-81	06/97	Sweeper, Street, Regenerative Air, Two Engine, Cab Over, Truck Mounted, Minimum 3 Cubic Yard (Formerly 765-77-09)
765-77-77	05/03	Sweeper, Street, Regenerative Air, Two Engine, Truck Mounted (Formerly 765-77-08 - Vol. 1 / 2 )
830-67-09	06/97	System, Heating, Asphalt Storage and Hot Oil, 7,000 gallon, Tandem Axle Trailer Mounted
560-09-49	01/97	System, Material Handling, 4,000 lb. Capacity
755-35-43	07/00	System, Pavement Patching, Auger Feed Type, Trailer Mounted
830-67-17	05/98	Tank, Asphalt Relay, 4,000 or 7,000 gallon, Tandem Axle, Trailer Mounted
830-64-01	07/94	Tank, Asphalt Storage, 12,000 gallon capacity
830-67-18	07/99	Tank, Asphalt, Storage, 11,000 Gallon, Trailer Mounted
830-64-15	01/02	Tank, Asphalt, Storage, Heated, 6,000 or 8,000 Gallon Capacity, Vertical and Horizontal (Formerly 830-67-15)
830-44-58	04/02	Tank, Polyethylene, Elliptical, Leg, Minimum 1235 Gallon Capacity
830-44-59	11/00	Tank, Polyethylene, Horizontal, 25 Gallon
830-44-60	03/02	Tank, Polyethylene, Horizontal, Leg, Minimum 500 Gallon Capacity
755-20-02	07/94	Tank, Storage, Asphalt, Installation of a Dual Burner System, 12,000 Gallon
755-20-01	07/94	Tank, Storage, Asphalt, Installation of Single Burner System, 12,000 Gallon
830-44-53	02/98	Tank, Thirty Gallon, Saddle
065-25-77	06/97	Tarpaulin, Spring Loaded, Self Retracting
020-77-83	06/97	Tiller, Rotary, Tractor Mounted, 48, 60, and 70 inch (Formerly 020-77-01)
765-85-91	07/00	Tractor, Crawler, Diesel Powered, with Angle / Tilt Dozer Blade, 165 HP (Formerly 765-85-07)
765-85-85	08/00	Tractor, Crawler, Diesel Powered, with Hydraulic Angle / Tilt Blade, 70 HP (Formerly 765-85-06)
765-85-88	09/00	Tractor, Crawler, Diesel Powered, with Hydraulic Angle / Tilt Dozer, 90 HP (Formerly 765-85-11)
020-89-44	02/02	Tractor, Pneumatic Tired, Diesel Powered, 65 and 85 PTO HP (Formerly 020-89-05)
765-87-85	02/02	Tractor-Loader-Backhoe Combination, 85 HP (Formerly 765-87-10 - Vol. 1 / 2)
070-78-84	07/02	Trailer, Between the Wheel Track Type, Three Axle, 21,000 pound Payload capacity @ 55 MPH (Formerly 070-78-01)
070-60-24	07/99	Trailer, Bottom Dump, Draw Bar Type, 12 Cubic Yard Capacity
070-60-25	07/99	Trailer, Bottom, Dump, 5 <sup>th</sup> Wheel Type, 20 Cubic Yard Capacity
070-59-25	06/00	Trailer, Cargo, Tag-Along, Tandem Axle, with Hide-Away Loading Ramp
070-66-32	05/00	Trailer, Equipment, Fixed Deck, Beavertail, Dual Wheel, Tandem Axle, Over-The-Wheel, With Rear Loading Ramp (Formerly 070-66-02)
070-66-33	06/00	Trailer, Equipment, Fixed Deck, Beavertail, Dual Wheel, Triple Axle, Over the Wheel, with Rear Loading Ramp
070-66-54	07/02	Trailer, Float, Flat Or Drop Deck, Tandem Axle (Formerly 070-66-01)
070-69-35	06/00	Trailer, Machinery, Drop Deck, Hydraulic, Detachable Gooseneck, Triple Axle
070-69-41	06/00	Trailer, Machinery, Drop or Level Deck, Hydraulic or Mechanical Folding Gooseneck, Triple Axle (Formerly 070-69-05)
070-61-87	06/00	Trailer, Machinery, Dump, Hydraulic, Tandem Axle with Frameless Steel Body (Formerly 070- 61-05)
070-69-46	06/00	Trailer, Machinery, Fixed Deck, Rigid Gooseneck, Sliding Tandem Axle
070-69-40	06/98	Trailer, Machinery, Folding Gooseneck, Level Deck and Drop Deck, Tandem Axle, 35 ton (Formerly 070-69-01 - Vol. 1 / 2 )
070-69-45	10/02	Trailer, Machinery, Level Deck, Rigid Gooseneck, Tandem Axle with Double Folding Tail Ramp



## EQUIPMENT SPECIFICATIONS

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Texas (continued)

Specification Number	Spec Date	Title of Specification
070-66-51	06/00	Trailer, Machinery, Tag-Along, Tandem Axle, Between-the-Wheel, with Loading Ramps
070-66-06	06/96	Trailer, Platform, Aluminum, Tandem Axle, 45 foot
070-77-25	07/99	Trailer, Pole, 20,000 Lb. Capacity (Formerly 070-57-01)
070-69-42	12/99	Trailer, Storage, Bulk Dry, 4,100 Cubic Foot Minimum Capacity
070-81-01	06/92	Trailer, Tilt Bed, 24,000 and 32,000 pound Net carrying capacity @ 50 MPH (Vol. 1 / 2 )
070-81-03	04/93	Trailer, Tilt Bed, Fixed Gooseneck, Tandem Axle, 40,000 pound Net carrying capacity @ 50 MPH
070-81-51	07/02	Trailer, Tilt Deck, 35,000 Pound Payload Capacity @ 50 MPH (Formerly 070-81-02 – Vol. 1 / 2 )
070-66-40	06/00	Trailer, Utility, Between the Wheels, Tandem Axle, with Loading Ramps (Formerly 070-66-04)
070-69-44	06/00	Trailer, Utility, Fixed Deck, Gooseneck, Tandem Axle, with Beavertail
070-84-36	06/00	Trailer, Van, Curtain Side, Tandem Axle
070-84-01	12/93	Trailer, Van, Tandem Axle, 45 foot
760-15-63	11/98	Trencher, 18 HP, Self Propelled, Non Riding (Formerly 760-15-03)
760-15-64	09/94	Trencher, 30 HP (Formerly 760-15-02)
070-45-25	10/02	Truck Tractor, Single Axle, Diesel Powered, 61,000 Pound GCWR (Vol. 1 / 2 ) (Formerly 070-45-04)
070-45-26	10/02	Truck Tractor, Tandem Axle, Diesel Powered, 80,000 pound GCWR (Formerly 070-45-01)
070-54-07SP	06/98	Truck, Cab & Chassis, Four Axle, Diesel Powered, 64,000 pound GVWR (Attachment with 765-13-24)
070-54-87	12/98	Truck, Cab and Chassis, Diesel-Powered, Single Axle, 44,500 Lb. GVWR
070-47-25	07/99	Truck, Tandem Axle Cab and Chassis, Diesel Powered, 43,000 pound GVWR (Formerly 070-53-07)
070-51-30	10/02	Truck, Tandem Axle Cab and Chassis, Diesel Powered, 52,000 pound GVWR (Formerly 070-51-01)
060-87-89	11/00	Valve, Equalization, Pressure, Dual Tire
070-20-88	08/03	Vehicle, Utility, Electric, Four-Wheel
765-75-86	08/00	Wafers, Broom, Disposable (Formerly 765-75-01)
055-57-56	03/99	Warning Light System, Incandescent, Lightbar
780-95-91	07/00	Weigh-In-Motion System, Traffic Data Collection, Type I, Piezoelectric, Fixed and Portable

## EQUIPMENT SPECIFICATIONS

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### 12. VIRGINIA

<b><u>CODE</u></b>	<b><u>DESCRIPTION</u></b>
018	ASPHALT HAULERS
028	BUSES
040	CUTTERS - STUMP
041	CHIPPERS – BRUSH
042	CAR WASHERS – AUTOMATIC
045	CLEANERS - HYDRAULIC SEWER - TRAILER-MOUNTED
048	COMPRESSORS - 150 CFM
053	COMPRESSORS - 250 CFM
058	COMPRESSORS - 365 CFM
060	COMPRESSORS - 600 CFM
076	CRACK FILLERS - JOINT SEALERS
078	CRANES - MOBILE SHOP TRANSPORT
080	CRASH CUSHIONS - NCHRP 230
081	CRASH CUSHIONS - NCHRP 350
152	DISTRIBUTORS - TRAILER-MOUNTED - 600 GALLON
156	DISTRIBUTORS - TRUCK-MOUNTED - 1000 GALLON
157	DITCHER UNITS - PULL TYPE (DONDI)
158	DITCHER UNITS - TRUCK-MOUNTED - 50000 GVW
173	DRILLS - ROCK CRAWLER
181	DRILLS - DIAMOND CORE WITH TRAILER
190	DRILLS – REMOTE CONTROLLED RUBBER TRACK MOUNTED GEOTECH
191	DRILLS - CRAWLER-MOUNTED GEOTECH
192	DRILLS - CARRIER/TRAILER (MUD-BUG)
193	DRILLS - TRUCK-MOUNTED (B27, B36, B38, B86)
194	DRILLS - TRUCK-MOUNTED (B52 MOBILE)
195	DRILLS - TRUCK-MOUNTED (B61 MOBILE)
197	DRILLS - CORE - TRUCK-MOUNTED
198	DRILLS - DIAMOND CORE - ASPHALT WITH TRAILER
254	FORKLIFTS
255	FERRYBOATS
256	EXCAVATORS - TRUCK-MOUNTED
257	EXCAVATORS – CRAWLER
258	EXCAVATORS – WALKING
276	GRADERS - 65 HP - 10000 LB.
284	GRADERS - 85HP - 20000 LB.
285	GRADERS - 150 HP - 30000 LB.
285N	GRADERS - 150 HP - 30000 LB. WITH SLOPER BLADE
286	GRADERS - 125 HP - 27000 LB
287	GRADERS - 6-WHEEL DRIVE
324	JACKS – MUD

## EQUIPMENT SPECIFICATIONS

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Virginia (continued)

<b><u>CODE</u></b>	<b><u>DESCRIPTION</u></b>
328	LOADERS - BELT TYPE (ATHEY)
330	LOADERS - SKID-STEER
331	LOADERS - REMOTE CONTROL - 30 HP
333	TRACTOR-LOADER-BACKHOES - 2-WHEEL DRIVE
334	TRACTOR-LOADER-BACKHOES - 4-WHEEL DRIVE
335	TRACTOR-LOADER-BACKHOES - 2-WHEEL DRIVE - 1.5 CU. YD.
335G	TRACTOR-LOADER-BACKHOES - 4-WHEEL DRIVE - 1.5 CU. YD.
336	WHEEL LOADERS - 110 HP - 2 CU YD W/BACKHOE
338	WHEEL LOADERS - 110 HP - 2 CU. YD.
340	WHEEL LOADERS - 140 HP - 3 CU. YD.
341	LOADERS - CRAWLER - 110 HP
342	LOADERS - CRAWLER WITH BACKHOE
343	LOADERS - CRAWLER - 140 HP
360	MARKERS - PAINT - TRUCK-MOUNTED - 400 OR 800 GAL. CAPACITY
361	MARKERS - THERMOPLASTIC - TRUCK-MOUNTED
362	MARKERS - SPECIAL MESSAGE - STENCIL - TRUCK-MOUNTED
363	MARKERS - THERMOPLASTIC SUPPLY - TRUCK-MOUNTED
365	MARKERS - PAINT WITH TRAILER - 2 GUN
366	HYDROBLASTER LINE REMOVERS
372	MIXERS - CONCRETE - 1-BAG
376	MIXERS - CONCRETE - 2 TO 3-BAG
380	MIXERS - BITUMINOUS - 4 CU FT
407	PAVERS - SLURRY PUGMILL
408	PAVERS - PULL TYPE
409	PAVERS - BITUMINOUS (LEE-BOY)
410	PATCHERS/MAINTAINERS (AMZ)
411	POTHOLE PATCHERS - TRUCK-MOUNTED SPRAY INJECTION
425	PIEZOCONE PENETROMETER - CRAWLER-MOUNTED WITH TRAILER
444	PLOWS - SNOW - ROTARY ATTACHMENT
448	PLOWS - SNOW - ROTARY - TRUCK-MOUNTED - CONVENTIONAL CAB
448J	PLOWS - SNOW - ROTARY - TRUCK-MOUNTED - CAB FORWARD
464	PULVERIZERS – LARGE
476	PULVERIZERS – SMALL
480	PAYHAULERS
538	ROLLERS - VIBRATING/PATCHING
540	ROLLERS - 4 TO 6 TON – TANDEM
541	ROLLERS - VIBRATORY - DOUBLE DRUM DRIVE - 10000 LB W/TRAILER
543	ROLLERS - 10 TON – VIBRATORY
545	ROLLERS - 8 TO 12 TON – TANDEM
548	ROLLERS - SINGLE DRUM VIBRATORY SELF-PROPELLED
560	ROLLERS - SHEEPFOOT - SINGLE DRUM

## EQUIPMENT SPECIFICATIONS

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Virginia (continued)

<b><u>CODE</u></b>	<b><u>DESCRIPTION</u></b>
564	ROLLERS - SHEEPFOOT - DOUBLE DRUM
573	ROLLERS - RUBBER-TIRED
613	SCRAPERS - 7 TO 10 CUBIC YARD
614	SCRAPERS - 14 TO 18 CUBIC YARD
636	CRANES - MOBILE - HYDRAULIC OR LATTICE BOOM
661	SPRAYERS - CHEMICAL - 500 GALLON - SKID MOUNTED
662	SPRAYERS - HERBICIDE - TRUCK-MOUNTED - 1000 GAL - COMP CONTR
664	SPRAYERS - CHEMICAL - 1000 GALLON
665	SPRAYERS - SEED & FERTILIZER - 1000 GALLON
666	SPRAYERS - MULCH BLOWER
668	SPRAYERS - SEED & FERTILIZER - 2500 GALLON - TRAILER-MOUNTED
669	SPRAYERS - SEED & FERTILIZER - 1000 GALLON - TRUCK-MOUNTED
670	SPRAYERS - SEED & FERTILIZER - 2500 GALLON - TRUCK-MOUNTED
672	SPREADERS - CHIP ROLL TYPE
673	SPREADERS - BLADE TYPE
674	SPREADERS - CHIP - SELF-PROPELLED
685	SURFACE PREPARATION SYSTEM - SELF PROPELLED
692	SWEEPERS - POWER WITH TRACTOR
693	SWEEPERS - VACUUM - 4 TO 7 CU. YD. - TRUCK-MOUNTED
721	MOWERS - SLOPE - KUT-KWIK TYPE
721O	MOWERS - SLOPE - DEWEZE TYPE
721P	MOWERS - SLOPE - OTHER TYPE
722	MOWERS - EXTENSION - GRADER-MOUNTED
723	MOWERS - ROPS TRACTOR - RIGHT HAND CUTTER BAR
723G	MOWERS - ROPS TRACTOR W/4WD - RIGHT HAND CUTTER BAR
723K	MOWERS - CAB TRACTOR - RIGHT HAND CUTTER BAR
723L	MOWERS - CAB TRACTOR W/4WD - RIGHT HAND CUTTER BAR
724	MOWERS - TRACTOR - PTO TYPE
726	MOWERS - NON-EXTENSION - SIDE ROTARY OR FLAIL
726G	MOWERS - NON-EXTENSION - SIDE ROTARY OR FLAIL W/4WD
727	MOWERS - EXTENSION - BRUSH CUTTER - ROTARY OR FLAIL
727G	MOWERS - EXTENSION - BRUSH CUTTER - ROTARY OR FLAIL W/4WD
728	MOWERS - ROPS TRACTOR - RIGHT & LEFT CUTTER BARS
728G	MOWERS - ROPS TRACTOR W/4WD - RIGHT & LEFT CUTTER BARS
728K	MOWERS - CAB TRACTOR - RIGHT & LEFT CUTTER BARS
728L	MOWERS - CAB TRACTOR W/4WD - RIGHT & LEFT CUTTER BARS
731	MOWERS - BI-DIRECTIONAL TRACTOR - 100HP W/ATTACHMENTS
732	TRACTORS - 30 TO 50 HP - RUBBER-TIRED ROPS
732G	TRACTORS - 30 TO 50 HP - RUBBER-TIRED ROPS W/4WD
732K	TRACTORS - 30 TO 50 HP - RUBBER-TIRED W/CAB & AC
732L	TRACTORS - 30 TO 50 HP - RUBBER-TIRED W/4WD, CAB & AC

## EQUIPMENT SPECIFICATIONS

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Virginia (continued)

<b><u>CODE</u></b>	<b><u>DESCRIPTION</u></b>
733	TRACTORS - 51 TO 70 HP - RUBBER-TIRED ROPS
733G	TRACTORS - 51 TO 70 HP - RUBBER-TIRED ROPS W/4WD
733K	TRACTORS - 51 TO 70 HP - RUBBER-TIRED W/CAB & AC
733L	TRACTORS - 51 TO 70 HP - RUBBER-TIRED W/4WD, CAB & AC
735	TRACTORS - 71 TO 110 HP - RUBBER-TIRED ROPS
735G	TRACTORS - 71 TO 110 HP - RUBBER-TIRED ROPS W/4WD
735K	TRACTORS - 71 TO 110 HP - RUBBER-TIRED W/CAB & AC
735L	TRACTORS - 71 TO 110 HP - RUBBER-TIRED W/4WD, CAB & AC
737	TRACTORS W/ROTARY DITCHER
737G	TRACTORS W/ROTARY DITCHER W/4WD
739	MULTIPURPOSE VEHICLES - 4WD (UNIMOG)
760	TRACTORS - CRAWLER WITH DOZER - 85 HORSEPOWER
761	TRACTORS - RUBBER-TIRED WITH DOZER
764	TRACTORS - CRAWLER WITH DOZER - 120 HORSEPOWER
768	TRACTORS - CRAWLER WITH DOZER - 150 HORSEPOWER
790	TRAILERS - VARIABLE MESSAGE SIGN, SOLAR POWERED
791	TRAILERS - FUEL HANDLING - 5000 TO 7000 GALLON
792	TRAILERS - VARIABLE MESSAGE SIGN, ENGINE DRIVEN
793	TRAILERS - POLE - 2-WHEEL
796	TRAILERS - 10 TO 16 TON
800	TRAILERS - 20 TO 25 TON
804	TRAILERS - 40 TO 50 TON
812	TRUCKS - SSP INCIDENT MANAGEMENT VEHICLE 10000 GVW
813	TRENCHERS - 18 HORSEPOWER
814	TRENCHERS - 30 HORSEPOWER
815	TRENCHERS - 40 HORSEPOWER
816	TRUCKS - VAN - MINI -4700 GVW
816H	TRUCKS - VAN - MINI - ALL-WHEEL-DRIVE - 4700 GVW
817	TRUCKS - VAN - PASSENGER 4-WHEEL DRIVE
818	TRUCKS - VAN - 15-PASSENGER - 9000 GVW
819	TRUCKS - VAN - TRAFFIC RECORDER
820	TRUCKS - SURVEY VAN
820G	TRUCKS - SURVEY VAN - 4-WHEEL DRIVE
821	TRUCKS - PICKUP - SAFETY SERVICE PATROL
822	TRUCKS - UTILITY - SAFETY SERVICE PATROL - 8500 GVW
823	TRUCKS - VAN - MINI CARGO – CONSTRUCTION
823H	TRUCKS - VAN - MINI CARGO - ALL-WHEEL-DRIVE – CONSTRUCTION
824	TRUCKS - PICKUP – CONSTRUCTION
824E	TRUCKS - PICKUP - EXTENDED CAB – CONSTRUCTION
824F	TRUCKS - PICKUP - EXTENDED CAB - 4WD – CONSTRUCTION
824G	TRUCKS - PICKUP - 4WD – CONSTRUCTION

## EQUIPMENT SPECIFICATIONS

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Virginia (continued)

<b><u>CODE</u></b>	<b><u>DESCRIPTION</u></b>
825	TRUCKS - VAN - FULL HEIGHT - DIVING - 10000 GVW
826	TRUCKS
826E	TRUCKS
827	TRUCKS - PICKUP - 4WD – MAINTENANCE
827E	TRUCKS - PICKUP - 4WD - EXTENDED CAB – MAINTENANCE
828	TRUCKS - PICKUP – MAINTENANCE
828E	TRUCKS - PICKUP - EXTENDED CAB – MAINTENANCE
828Z	TRUCKS - PICKUP - MAINTENANCE - FVS OPERATIONS
829	TRUCKS - VAN – CARGO
830	TRUCKS - VAN - MOBILE OFFICE
831	TRUCKS - PICKUP - CREW CAB - 8500 GVW
831G	TRUCKS - PICKUP - CREW CAB - 8500 GVW - 4WD
832	TRUCKS - UTILITY BODY - 8500 GVW
832G	TRUCKS - UTILITY BODY - 8500 GVW - 4WD
832Z	TRUCKS - UTILITY BODY - 8500 GVW - FVS OPERATIONS
833	TRUCKS - UTILITY BODY & CRANE - 10000 GVW
833Z	TRUCKS - UTILITY BODY & CRANE - 10000 GVW - FVS OPERATIONS
834	TRUCKS - DUMP - 10000 GVW
834C	TRUCKS - DUMP - CREW CAB - 10000 GVW
835	TRUCKS - PICKUP - 8500 GVW
835E	TRUCKS - PICKUP - EXTENDED CAB - 8500 GVW
835F	TRUCKS - PICKUP - EXTENDED CAB - 4WD - 8500 GVW
835G	TRUCKS - PICKUP - 4WD - 8500 GVW
836	TRUCKS - PICKUP – CNG
837	TRUCKS - 4WD UTILITY TYPE VEHICLE - MAINT (BLAZER, EXPLORER)
838	TRUCKS - 4WD UTILITY TYPE VEHICLE - CONST (BLAZER, EXPLORER)
839	TRUCKS - VAN - MODIFIED FOR HANDICAPPED
840	TRUCKS - PICKUP - CNG COMPARISON VEHICLE
841	TRUCKS - GUARDRAIL STRAIGHTENER
842	TRUCKS - DUMP - 4WD - 10000 GVW
842C	TRUCKS - DUMP - 4WD - CREW CAB - 10000 GVW
843	TRUCKS - DUMP - 4WD - 15000 GVW
844	TRUCKS - UTILITY BODY - 15000 GVW
844I	TRUCKS - UTILITY BODY - 5000# CRANE - 15000 GVW
845	TRUCKS - UTILITY BODY W/HYD CRANE - LOW PROFILE - 21000 GVW
846	TRUCKS - UTILITY BODY - 10000 GVW
846C	TRUCKS - UTILITY BODY - CREW CAB - 10000 GVW
846D	TRUCKS - UTILITY BODY - CREW CAB - 4WD - 10000 GVW
846G	TRUCKS - UTILITY BODY - 4-WHEEL DRIVE - 10000 GVW
847	TRUCKS - ENCLOSED UTILITY BODY - 10000 GVW
847C	TRUCKS - ENCLOSED UTILITY BODY - CREW CAB - 10000 GVW

## EQUIPMENT SPECIFICATIONS

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Virginia (continued)

<b><u>CODE</u></b>	<b><u>DESCRIPTION</u></b>
847D	TRUCKS - ENCLOSED UTILITY BODY - CREW CAB - 4WD - 10000 GVW
847G	TRUCKS - ENCLOSED UTILITY BODY - 4WD - 10000 GVW
848	TRUCKS - STAKE BODY - 10000 GVW
848C	TRUCKS - STAKE BODY - CREW CAB - 10000 GVW
848D	TRUCKS - STAKE BODY - CREW CAB - 4WD - 10000 GVW
848G	TRUCKS - STAKE BODY - 4WD - 10000 GVW
849	TRUCKS - STAKE BODY W/DUMP FEATURE - 10000 GVW
849C	TRUCKS - STAKE BODY W/DUMP FEATURE - CREW CAB - 10000 GVW
849D	TRUCKS - STAKE BODY W/DUMP - CREW CAB - 4WD - 10000 GVW
849G	TRUCKS - STAKE BODY W/DUMP FEATURE - 4WD - 10000 GVW
853	TRUCKS - DUMP - 4WD - 17500 GVW
853C	TRUCKS - DUMP - CREW CAB - 4WD - 17500 GVW
861	CRASH CUSHION VEHICLE WITH NCHRP-350 ATTENUATOR
862	TRUCKS - CRASH CUSHION VEHICLE
863	TRUCKS - REPLACED STD DUMP FOR CRASH CUSHION - 30000 GVW
864	TRUCKS - DUMP - STANDARD - 36000 GVW - MANUAL TRANSMISSION
864A	TRUCKS - DUMP - STANDARD - 36000 GVW - AUTOMATIC TRANSMISSION
864B	TRUCKS - DUMP - STANDARD - 36000 GVW - 6 SPD TRANS 1 SPD DIFF
865	TRUCKS - STAKE BODY - STANDARD 14 FT - 28000 GVW
866	TRUCKS - 36000 GVW - DUMP - CREW CAB
866A	TRUCKS - 36000 GVW - DUMP - CREW CAB - AUTOMATIC TRANS
872	TRUCKS - FUEL HANDLING - 1700 GALLON TANK
873	TRUCKS - FUEL HANDLING - 3500 GALLON TANK
877	TRUCKS - VAN W/ALUMINUM BODY & LIFT GATE - 28000 GVW
880	TRUCKS - 24000-30000 GVW - DUMP - 4WD
880A	TRUCKS - 24000-30000 GVW - DUMP - 4WD -AUTOMATIC TRANS
885	TRUCKS - 33000 GVW - TRACTOR - SINGLE AXLE
885A	TRUCKS - 33000 GVW - TRACTOR - SINGLE AXLE - AUTOMATIC TRANS
887	TRUCKS - 50000 GVW - TRACTOR - TANDEM AXLE
887A	TRUCKS - 50000 GVW - TRACTOR - TANDEM AXLE - AUTOMATIC TRANS
890	TRUCKS - 36000 GVW - BRIDGE - CREW CAB W/LIFT
890A	TRUCKS - 36000 GVW - BRIDGE - CREW CAB W/LIFT - AUTOMATIC TRANS
891	TRUCKS - 36000 GVW - BRIDGE - CREW CAB
891A	TRUCKS - 36000 GVW - BRIDGE - CREW CAB - AUTOMATIC TRANS
892	TRUCKS - 36000 GVW - BRIDGE - UTIL BODY - CREW CAB W/LIFT
892A	TRUCKS - 36000 GVW - BRIDGE - UTIL BODY - CREW CAB - W/LFT - AUTO TR
893	TRUCKS - 36000 GVW - DUMP - 4-WHEEL DRIVE
893A	TRUCKS - 36000 GVW - DUMP - 4-WHEEL DRIVE - AUTOMATIC TRANS
894	TRUCKS - 37000 GVW - DUMP - 4-WHEEL DRIVE
894A	TRUCKS - 37000 GVW - DUMP - 4-WHEEL DRIVE - AUTOMATIC TRANS

## EQUIPMENT SPECIFICATIONS

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Virginia (continued)

<b><u>CODE</u></b>	<b><u>DESCRIPTION</u></b>
896	TRUCKS - DUMP - TANDEM - 50000 GVW 10 SPD TRANS 1 SPD DIFF
896A	TRUCKS - DUMP - TANDEM - 50000 GVW AUTOMATIC TRANS
899A	TRUCKS - ANTI-ICING
901	TRUCKS
902	MOTOR HOMES - INCIDENT MANAGEMENT
935	TRUCKS - 15000 GVW - WRECKER - ROLLBACK
935A	TRUCKS - 15000 GVW - WRECKER - ROLLBACK - AUTOMATIC TRANS
936	TRUCKS - 24000 GVW - WRECKER - ROLLBACK
936A	TRUCKS - 24000 GVW - WRECKER - ROLLBACK - AUTOMATIC TRANS
937	TRUCKS - 24000 TO 30000 GVW - WRECKER
937A	TRUCKS - 24000 TO 30000 GVW - WRECKER - AUTOMATIC TRANS
938	TRUCKS - 18000 GVW - WRECKER
938A	TRUCKS - 18000 GVW - WRECKER - AUTOMATIC TRANS
939	TRUCKS - 24000 GVW - LOW PROFILE - WRECKER
939A	TRUCKS - 24000 GVW - LOW PROFILE - WRECKER - AUTOMATIC TRANS
940	TRUCKS - 44000 GVW - WRECKER
940A	TRUCKS - 44000 GVW - WRECKER - AUTOMATIC TRANS
941	TRUCKS - VACUUM CATCH BASIN CLEANER - 50000 GVW
942	TRUCKS - UNDERBRIDGE INSPECTION UNIT - GVW WILL VARY
943	UNDERBRIDGE PLATFORMS - TOW TYPE
945	TRUCKS - POLE DERRICK & AUGER - 30000 GVW
948	TRUCKS - VAN WITH TELESCOPING AERIAL BUCKET
949	TRUCKS - AERIAL BUCKET - 300 LB - 24000 GVW
949A	TRUCKS - AERIAL BUCKET - 300 LB - 24000 GVW - AUTO TRANS
950	TRUCKS - AERIAL BUCKET - 15000 GVW
950A	TRUCKS - AERIAL BUCKET - 15000 GVW - AUTOMATIC TRANS
950G	TRUCKS - AERIAL BUCKET - 15000 GVW - 4-WHEEL DRIVE
950Q	TRUCKS - AERIAL BUCKET - 15000 GVW - 4WD - AUTO TRANS
951	TRUCKS - AERIAL BUCKET - 900 LB FOLDING - 30000 GVW
951A	TRUCKS - AERIAL BUCKET - 900 LB FLDNG - 30000 GVW - AUTO TR
953	TRUCKS - AERIAL BUCKET - 65 FT BOOM & 500 LB - 50000 GVW
953A	TRUCKS - AERIAL BUCKET - 65 FT BM & 500 LB - 50000 GVW AUTO
956	WORK PLATFORMS - HYDRAULIC
957	TELESCOPIC WORK PLATFORM - TRUCK-MOUNTED
960	WELDERS - GAS DRIVEN - TRAILER-MOUNTED
960Z	WELDERS - GAS DRIVEN - TRAILER-MOUNTED - FVS OPERATIONS
961	WELDERS - GAS DRIVEN - TRUCK-MOUNTED - 10000 GVW
970	TUNNEL - FIRE TRUCKS - GVW WILL VARY
971	TUNNEL - FLUSH TRUCKS - 50000 GVW
972	TUNNEL - SOLUTION TRUCKS - 50000 GVW
973	TUNNEL - WRECKER TRUCKS - 40000 GVW



## EQUIPMENT SPECIFICATIONS

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Virginia (continued)

<b><u>CODE</u></b>	<b><u>DESCRIPTION</u></b>
975	TUNNEL WASHERS - 30000 GVW
976	TUNNEL WASHERS - HIGH PRESSURE - GVW WILL VARY
980	TOW UNITS - SKID TEST
981	TOW UNITS - DEFLECTION TEST
982	TRAILERS - SKID TEST
983	TRAILERS - DEFLECTION TEST
984	ROAD PROFILERS (SOUTH DAKOTA TYPE)
1010	AIR COMPRESSORS
1025	ARROW SIGNS - TRAILER MOUNTED
1030	ASPHALT CUTTERS
1035	ASPHALT EQUIPMENT - MISCELLANEOUS
1040	ASPHALT PLANERS & FINISHERS
1045	ASPHALT HEATERS
1050	ASPHALT KETTLES
1060	ATTACHMENTS TO BUCKETS & BLADES
1065	ATTACHMENTS FOR BACKHOES & EXCAVATORS
1085	AUGERS - THREE-POINT HITCH & BUMPER MOUNT
1090	AUGERS - PORTABLE - ENGINE & HYDRAULIC POWERED
1105	BACKHOES - THREE-POINT HITCH
1120	BOATS
1130	BROOMS - THREE-POINT HITCH & BUMPER MOUNT
1140	BRUSH CHIPPERS - THREE-POINT HITCH
1150	BUCKETS - CONCRETE, DRAGLINE, MISCELLANEOUS
1170	COMPACTORS, SOIL - ENGINE POWERED
1175	COMPACTORS, SOIL - HYDRAULIC POWERED
1180	COMPACTORS, SOIL - PNEUMATIC POWERED
1190	CONCRETE EQUIPMENT
1195	CONCRETE MIXERS & MORTAR MIXERS
1200	CONCRETE SAWS
1205	CONCRETE VIBRATORS
1210	CONVEYORS
1220	CONVEYORS - TAILGATE - HYDRAULIC POWERED
1230	CRASH CUSHIONS - NCHRP 230
1231	CRASH CUSHIONS - NCHRP 350
1270	ELECTRIC POWER PLANTS
1271	ELECTRIC POWER PLANTS - STATIONARY EMERGENCY UNITS
1275	ELECTRIC TOOLS - DRILLS, IMPACT WRENCHES, ETC.
1310	FORKLIFTS & ATTACHMENTS
1320	GRADER ATTACHMENTS

## EQUIPMENT SPECIFICATIONS

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Virginia (continued)

<b><u>CODE</u></b>	<b><u>DESCRIPTION</u></b>
1330	GRADERS AND ROAD DRAGS - PULL TYPE
1350	HEATERS - PORTABLE
1370	HYDRAULIC TOOLS - DRILLS, IMPACT WRENCHES, ETC.
1420	LAWN EDGERS & WEED TRIMMERS
1430	LAWN & GARDEN - SPREADERS, SWEEPERS, MISC.
1435	LIGHTS - PORTABLE WORK
1440	MISCELLANEOUS EQUIPMENT
1450	MOWERS - 20" TO 26" WALK BEHIND
1455	MOWERS - 30" TO 48" WALK BEHIND
1460	MOWERS - 36" SICKLE WALK BEHIND
1465	MOWERS - COMMERCIAL FRONT MOUNT RIDING 42" TO 72"
1470	MOWERS - RIDING DIESEL ENGINE
1475	MOWERS - RIDING GASOLINE ENGINE
1480	MOWERS - 3-POINT HITCH FLAIL
1485	MOWERS - 3-POINT HITCH ROTARY, 48" TO 59"
1490	MOWERS - 3-POINT HITCH ROTARY, 60" TO 71"
1495	MOWERS - 3-POINT HITCH ROTARY, 72" TO 83"
1500	MOWERS - 3-POINT HITCH & PULL ROTARY, 84" TO 95"
1505	MOWERS - PULL ROTARY, 96" TO 119"
1510	MOWERS - PULL ROTARY, OVER 120"
1525	OUTBOARD MOTORS
1540	PAVEMENT BREAKERS - HYDRAULIC & PNEUMATIC
1550	PNEUMATIC TOOLS - DRILLS, IMPACT WRENCHES, ETC.
1560	POST DRIVERS & PULLERS
1565	POWER CONVERTERS - 12 VDC TO 120 VAC
1570	PUMPS - CENTRIFUGAL
1575	PUMPS - DIAPHRAGM - ENGINE & PNEUMATIC POWERED
1580	PUMPS - JET
1590	PUMPS - SUBMERSIBLE - HYDRAULIC POWERED
1595	PUMPS - SUMP & MISCELLANEOUS
1600	RADAR SIGNS
1602	RADIOS - HIGHWAY ADVISORY - TOW TYPE
1610	ROCK DRILLS
1620	ROCK RIPPERS & SPLITTERS
1630	ROLLERS - ASPHALT
1640	ROTARY TILLERS
1750	SANDBLASTERS
1760	SAWS - CHAIN - ENGINE POWERED

## EQUIPMENT SPECIFICATIONS

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Virginia (continued)

<b><u>CODE</u></b>	<b><u>DESCRIPTION</u></b>
1765	SAWS - HYDRAULIC POWERED
1770	SAWS - MISCELLANEOUS
1780	SCRAPER BLADES - 3-POINT HITCH
1790	SHOP TOOLS - JACKS, ETC.
1800	SIGN CLEANERS
1810	SNOW BLOWERS & THROWERS - WALK-BEHIND, MISCELLANEOUS
1811	SNOW BLOWERS - LOADER-MOUNTED
1812	SNOW BLOWERS - TRUCK-MOUNTED
1815	SNOWPLOWS - DUAL TAPER
1820	SNOWPLOWS - ONE-WAY
1825	SNOWPLOWS - TWO-WAY
1830	SNOWPLOWS - POWER REVERSING
1835	SNOWPLOWS - V-TYPE
1837	SNOWPLOWS - MISCELLANEOUS
1840	SPRAYERS - PAINT & MATERIAL
1845	SPRAYERS - SMALL
1847	SPRAYERS - STRAW & MULCH BLOWER
1855	SPREADERS - ABRASIVE - ENGINE DRIVEN, STD. DUMP
1856	SPREADERS - ABRASIVE - ENGINE DRIVEN, TANDEM
1860	SPREADERS - ABRASIVE - HYDRAULIC DRIVEN, STD. DUMP
1861	SPREADERS - ABRASIVE - HYDRAULIC DRIVEN, TANDEM
1865	SPREADERS - MISCELLANEOUS
1870	SPREADERS - TAILGATE
1880	STEAM CLEANERS & PRESSURE WASHERS
1890	SWEEPERS - VACUUM, MECHANICAL, OR MAGNETIC
1915	TANKS - FUEL, SKID MOUNTED
1920	TANKS - WATER SPRINKLER
1940	TRACTOR ATTACHMENTS
1950	TRAFFIC LINE MARKERS
1955	TRAFFIC LINE REMOVERS
1960	TRAILERS
1970	VARIABLE MESSAGE SIGNS - TRAILER-MOUNTED
1971	VARIABLE MESSAGE SIGNS - FOR TRUCK MOUNTING
1975	WELDERS
1979	WORK PLATFORMS - SCISSORS OR BOOM LIFT - ELECTRIC OR ENGINE

**B. SPECIFICATIONS INVENTORY BY AFFILIATE MEMBER**

**1. CANADA**

**a) SASKATCHEWAN**

<b>Number</b>	<b>Date</b>	<b>Title</b>
1006	05-90	2.5 Cu. Yd. (2 m3) Model, Rubber-Tired, Self-Propelled, Articulated, Tractor Shovel
1007	05-90	3 Cu. Yd. (2.2 m3) Model, Rubber-Tired, Self-Propelled, Articulated, Tractor Shovel
1017	05-90	100 H.P. Diesel Tractors
1018	06-05	100 H.P. Bi-Directional Tractors
2003	06-05	200 H.P. (Minimum) Motor Grader (Articulated Frame)
3015	05-90	Carrier for 6550 L Asphalt Distributor Operation
3037	06-05	Tandem Drive for Dump and Snow Plow Operation
3043	06-05	Tandem Drive, Cab Over for Highway Paint Stripper
11003	06-05	9 Wheeled, Self-Propelled Pneumatic Tire Roller

## V. NEW OR INNOVATIVE EQUIPMENT IDEAS AND CONCEPTS

### A. IDEAS

#### 1. ASPHALT MAINTENANCE UNITS

##### a) UNIFORMITY OF APPLICATION SPRAY BAR TEST (TX)

#### Uniformity Of Application Spray Bar Test

The following is an accounting of the activities related to our computer program which determines the uniformity of application rates for spray bars utilized on our asphalt maintenance units and pressure distributors.

The program was originally on our mainframe computer as a Maxicalc spreadsheet. Subsequently, we created a Lotus 1-2-3 spreadsheet version for use on personal computers. Its purpose is to simplify the process used in determining spray bar specification compliance.

The program analyzes the relative performance of each individual nozzle along the length of the spray bar by:

- computing the total spray bar output
- determining the number of nozzles with actual output
- computing the individual nozzle outputs
- comparing the individual nozzle outputs to the average nozzle output
- computing the variance between individual nozzle outputs and the average nozzle output
- comparing the nozzle variance to our specification limits of plus or minus 7.5%
- determining PASS or FAIL conditions
- displaying all data and results, both numerically and graphically

A copy of each type spreadsheet is attached to depict the actual presentation of the data and results. Also attached is a brief documentation for the Lotus version and a detailed printout of the Maxicalc version. This information should assist in your understanding of the program, formula, and logic. Additionally, examples are included of our spray bar specification and spray bar test procedures.

For more information contact: Glenn R. Hagler, CPPO, CTPM (512) 374-5402  
Email - ghagler@dot.state.tx.us

Submitted by: Scott D. Buford, Director  
General Services Division  
Texas Department of Transportation

UNIFORMITY OF APPLICATION SPRAY BAR TEST (TX) (continued)

**Controlled Weight**

**Bucket Test**

**STATEMENT OF INTENT:** A test will be made to check the quantity of material delivered by each nozzle along the spray bar by the following method. It is the intent of this test that all nozzles of the thirteen (13) foot spray bar shall be working and dispensing material. Test calculations shall be based on all of these nozzles working and dispensing material.

The material in the dispenser will be heated and circulated. The spray bar will then be "blown" or sprayed for a short period of time. Buckets will then be placed under each nozzle. The buckets will be placed in a manner to catch all material which is emitted in the test. The material will be applied through the spray bar nozzles into the buckets. The buckets will then be weighed to determine the quantity of material emitted by each nozzle. An average nozzle application quantity will be calculated. The average application quantity will be determined by calculating the total cumulative weight of the buckets and material quantity emitted, less the tare weight of the buckets, divided by the total number of nozzles on the thirteen (13) foot spray bar (see below). Uniformity of application for a thirteen (13) foot spray bar shall not vary from the average application by more than plus or minus seven and one-half percent ( $\pm 7.5\%$ ), for each nozzle over the entire thirteen (13) foot length of the spray bar.

BUCKET TEST

**SPRAY BAR SPREADSHEET:** The spreadsheet is fairly self-explanatory. It was developed on Lotus 1-2-3, release 2. It should work acceptably under release 1A. It provides certain information about spray bar performance based on the weight of samples collected. The user enters the weight of a full bucket in the first column and the weight of an empty bucket in the third column. The spreadsheet calculates material weight, calculates an average and computes the variance from the average. If it is less than 7.5%, the COMMENT column will indicate "PASSED." If it is over 7.5%, COMMENT will show "FAILED." The last column will graph the variance with pluses indicating a positive variance (++++++) and minuses indicating a negative variance (-----).

Material Applied via the Average Weight Test Method

BT-TO-WT	BKT-NO.	BT-TR-WT	MAT-WP	OFF	AT-MT-WT	%VAR-AVG	COMMENT	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5
3,140	1	1,286	1,854	1	1,763	5.1742%	PASS	+	+	+	+	+										
3,043	2	1,230	1,813	1	1,763	2.8484%	PASS	+	+	+												
3,074	3	1,269	1,805	1	1,763	2.3945%	PASS	+	+													
3,035	4	1,261	1,774	1	1,763	0.6360%	PASS	+														
3,078	5	1,276	1,802	1	1,763	2.2243%	PASS	+	+													
3,119	6	1,351	1,768	1	1,763	0.2956%	PASS															
2,960	7	1,283	1,677	1	1,763	-4.8667%	PASS	-	-	-	-	-	-									
2,955	8	1,228	1,727	1	1,763	-2.0303%	PASS	-	-													
2,986	9	1,285	1,701	1	1,763	-3.5052%	PASS	-	-	-	-											
3,029	10	1,302	1,727	1	1,763	-2.0303%	PASS	-	-													
2,948	11	1,212	1,736	1	1,763	-1.5197%	PASS	-	-													
3,017	12	1,267	1,750	1	1,763	-0.7255%	PASS	-														
2,925	13	1,218	1,707	1	1,763	-3.1648%	PASS	-	-	-												
3,129	14	1,422	1,707	1	1,763	-3.1648%	PASS	-	-	-												
2,999	15	1,260	1,739	1	1,763	-1.3495%	PASS	-														
3,132	16	1,423	1,709	1	1,763	-3.0514%	PASS	-	-	-												
2,975	17	1,232	1,743	1	1,763	-1.1226%	PASS	-														
3,175	18	1,461	1,714	1	1,763	-2.7677%	PASS	-	-	-												
3,040	19	1,000	2,040	1	1,763	15.7257%	FAILED	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
0	20	0	0	0	1,763		FAILED															
0	21	0	0	0	1,763		FAILED															
0	22	0	0	0	1,763		FAILED															
0	23	0	0	0	1,763		FAILED															
0	24	0	0	0	1,763		FAILED															
0	25	0	0	0	1,763		FAILED															
0	26	0	0	0	1,763		FAILED															
0	27	0	0	0	1,763		FAILED															
0	28	0	0	0	1,763		FAILED															
0	29	0	0	0	1,763		FAILED															
0	30	0	0	0	1,763		FAILED															
0	31	0	0	0	1,763		FAILED															
0	32	0	0	0	1,763		FAILED															

**2. HAZARDOUS MATERIALS**

**a) ENVIRONMENTAL/FINANCIAL (NJ)**

Environmental/Financial Management

From both the environmental and financial aspects, we have been very much aware of the need to eliminate hazardous waste in our shop.

We have taken the following direction:

- 1) Waste drain oil - removed by a contractor for recycling.
- 2) Parts Cleaning Solvent - all recirculating and immersion parts cleaners are obtained by contract which includes solvent replacement.
- 3) We are evaluating Freon recovery systems and will include as standard shop equipment at all facilities in the near future.
- 4) We are evaluating antifreeze recycling equipment and expect to implement antifreeze recycling statewide in the next twelve (12) months.

For more information contact: Stephen A. Toth (609) 530-2200  
Chief, Bureau of Equipment

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Submitted by: Stephen A. Toth, Chief  
Bureau of Equipment  
New Jersey Department of Transportation

### 3. FLEET SIZE

#### a) REPLACEMENT ANALYSIS (TX)

##### **TxDOT Equipment Replacement Model TERM**

The Texas Department of Transportation utilizes a uniform process in its approach to determine equipment replacement criteria. To provide some background, the Department owns and maintains an active fleet inventory of over 17,000 units, with an estimated replacement value in excess of \$613 million, to service more than 79,000 centerline miles on the state highway system. We purchase and dispose of approximately 10% of the fleet annually.

The fleet ranges from compact sedans to motorized ferries, to meet the diverse geographical conditions and program needs in the State of Texas. The Department consists of 25 Districts and 27 support Divisions/Offices. Each District receives an annual allocation for equipment purchases to use in determining needs. District management is responsible for specific needs, and most utilize equipment committees to identify equipment as candidate for replacement.

We are continually evaluating the suitability of units in our fleet based on age, hours or miles of operation, and downtime, as well as operating and maintenance costs. Most of the evaluation is done subjectively through input from equipment, maintenance, and field personnel. During 1988-9, after conducting an extensive search of printed material, we contacted the various state highway departments to determine if an automated method to identify equipment as candidate for replacement was in use. While various methods were being used, most employed schedules for classes of equipment based on the criteria of age and usage, and considered life repair costs, as well as the condition of the equipment.

After an extensive review of replacement methodologies; and to satisfy an internal audit recommendation to include inflation as a factor in the Department's replacement process; and recognizing that all District equipment operations are not the same, and that there are numerous factors that must be considered when planning for equipment replacement, we chose to develop an in-house approach. The result is the TxDOT Equipment Replacement Model (TERM), which identifies items of equipment that are candidates for replacement.

The Equipment Operations System (EOS), a subsystem of our overall Management Information System (MIS), operational since September 1984, captures extensive information on all aspects of equipment operations. This system is used to provide historical data in our computerized approach. Due to the complexity of the equipment replacement decisions, we chose to keep the philosophy simple: The computer processes raw EOS historical data against three preset standards for each identified equipment class. The criteria used in our approach are: (1) equipment age; (2) life usage expressed in hours or miles; and (3) life repair costs (adjusted for inflation) relative to original purchase cost (including net adjustments to capital value).



### REPLACEMENT ANALYSIS (TX) (continued)

#### **Term Methodology and Logic**

**Methodology** - After a complete review of available software and methods used by other states for equipment replacement, the Equipment Operations System (EOS) developed an in-house approach to identify items of major equipment that may be candidates for replacement. The approach considers equipment age, elapsed usage, and life repair costs, as these are generally accepted criteria in literature and/or other states' methods.

**Actual Method** - An ad hoc program written in SAS language was developed that identified classes of equipment having 82% of the value and 73% of the quantity of the statewide equipment fleet. The remaining equipment, being unique or having low population, is not considered in this approach.

The logic used in this approach is that each item of equipment reaches a point in its useful life when significant increases are experienced in repair costs. Replacement should occur just prior to that point. Ad hoc reports were developed, and monitored annually, that display historical information on usage and repairs to identify, in years, when that time occurs.

From this historical information, standards for each criteria were established for each class of equipment. For sedans, pickups, and dump trucks, the manufacturer's warranty period was incorporated into the standards used in our replacement model. For aerial devices, the standard was determined as that point just prior to the required major inspection.

**Report Explanation** - This approach identifies equipment meeting specified criteria one year in advance of the actual time that replacement is required. In the report, standards are established and displayed for each class of equipment. Standards for usage are displayed in miles/hours ("Criteria For Usage" column); age is expressed by model year ("Criteria For Model Yr" column); and life repairs are expressed in dollars ("Criteria For Repair Exp" column). The criterion for repair expenses for a particular piece of equipment is the original purchase cost plus adjustments to capital value for that piece of equipment. Life repair expenses have been adjusted to include inflation.

Each item of active equipment in the District fleet is compared to the established standards. When an item of equipment meets one or more of the standards, it will be displayed on the report. The equipment's historical information is then displayed in relation to the established standards. Equipment that meets three standards is displayed on the reports with three asterisks, two standards with two asterisks, and one standard with one asterisk.

Replacement cost and funding activity have also been included in the reports. The "Replacement Cost" column displays the average replacement cost for that class of equipment based on the previous year's purchases. The "STRNUM" column shows the funding activity the item is currently classified in. At the bottom of each report, the "Equipment Count Meeting Criteria" and "Total Estimated Replacement Cost" are listed.

The resulting reports provide information to better manage equipment replacement and to plan for future needs. This approach can identify equipment meeting specified criteria one year in advance of the actual time that a replacement may be required. This allows sufficient time for the procurement and delivery of a new unit.

In this approach, historical information and other data have been used to develop statewide standard replacement guidelines for each identified equipment class. The resulting reports display replacement candidates by funding activity. A District's report contains three listings: Equipment that has met all three criteria; two criteria; and one criterion. Equipment meeting three criteria is assumed to be the highest priority candidate for replacement (e.g., a light duty pickup truck in class 430010, which is eight (8) years old, has accumulated 100,000 miles of usage, and whose life repair costs have exceeded 50% of the original purchase cost including net adjustments to capital value meets all three criteria). The criteria are not weighted or ranked as to importance.

TERM is only one tool in the overall decision-making process, and does not replace the knowledge of the equipment manager, but only serves to supplement it. Consequently, as equipment budget constraints are realized, this requires each District to prioritize equipment replacement relative to their needs and approved budget funding. Accordingly, each District considers this information, as well as downtime, condition of equipment, new equipment needs, identified projects, and other factors when planning equipment replacement.

The coded computer program, a mainframe application, is written in SAS language, and will be made available to you if you feel it would be helpful.

## NEW OR INNOVATIVE EQUIPMENT IDEAS AND CONCEPTS

### REPLACEMENT ANALYSIS (TX) (continued)

CLASS CODE	CLASS CODE DESCRIPTION	STANDARD FOR USAGE	STANDARD FOR AGE	STANDARD FOR REPAIR
001010	Aerial Personnel Device, Trk Mtd, To 30', inc Trk	7,000 Hrs	7 Yrs	.75
001020	Aerial Personnel Device, Trk Mtd, 31 to 40', Inc Trk	7,000 Hrs	7 Yrs	.75
001030	Aerial Personnel Device, Trk Mtd, 41 to 59', Inc Trk	7,000 Hrs	7 Yrs	.75
001040	Aerial Personnel Device, Trk Mtd, 60' + Inc Trk	9,000 Hrs	10 Yrs	.50
001050	Aerial Personnel Device, Truck Mounted, Mileage	11,000 Mi	7 Yrs	1.00
011010	Asphalt Distributor, Truck Mtd. (Includes Truck)	5,000 Hrs	12 Yrs	.75
012010	Asphalt Maintenance Unit 600 Gal, Trailer Mtd.	3,500 Hrs	10 Yrs	1.00
012020	Asphalt Maintenance Unit, 1000 Gal. Trailer Mtd	3,500 Hrs	12 Yrs	.75
012030	Asphalt Maintenance Unit, Truck Mounted	5,000 Hrs	12 Yrs	.75
012040	Asphalt Maintenance Unit. Dumpbody Contained	4,500 Hrs	13 Yrs	.75
014000	Asphalt Melting Kettle (HTR) Trailer Mtd.	1,800 Hrs	10 Yrs	.75
019000	Asphalt Inplace Reclaimer, S P Hydrostatic, Diesel W/LIQ	3,000 Hrs	10 Yrs	.50
020020	Automobiles, Sedan, 100 Thru 112.9 Inch Wheelbase	90,000 Mi	8 Yrs	.50
020030	Automobiles, Sedan, 113 in wheelbase and greater	90,000 Mi	8 Yrs	.50
025010	Automobiles, Station Wagons Up to 112.9 wheelbase	90,000 Mi	8Yrs	.50
044000	Earth Boring Machine, Trk Mtd (Includes Truck)	5,000 Hrs	14 Yrs	.75
052010	Crane, Carrier Mounted, Cable Control	6,000 Hrs	16 Yrs	.75
052020	Crane, Crawler Type, Cable Control	10,000 Hrs	14 Yrs	.50
054000	Crane, Telescoping Boom, Trk, Mtd. (Inc. Trk)	7,000 Hrs	12 Yrs	.50
056000	Crane, Yard/Industrial, Self-Propelled	5,000 Hrs	12 Yrs	.50
064000	Dynamic Deflection System, Trailer Mounted	90,000 Mi	10 Yrs	1.00
070010	Excavator, Hinged Boom, Crawler Type	7,000 Hrs	10 Yrs	.50
070020	Excavator, Hinged Boom, Pneumatic Tired Carrier	7,000 Hrs	10 Yrs	.50
075010	Excavator, Tlscp Bm, Car Mt, Cls I, Sgle Axle 4x2	7,000 Hrs	9 Yrs	.75
075020	Excavator, Tlscp Bm, Car Mt, Cls II, Sgle Axle 4x4	7,000 Hrs	9 Yrs	.75
075030	Excavator, Tlscp Bm, Car Mt, Clss III, Tndm Axle 6x4	8,400 Hrs	12 Yrs	.75
080000	Forklift, Electric	5,000 Hrs	12 Yrs	.50
085010	Forklift, Engine Driven, up to 3,999 Capacity	9,000 Hrs	12 Yrs	1.00
085020	Forklift, Engine Driven, 4,000 LB and over	9,000 Hrs	12 Yrs	.75
090010	Grader, Motor, Class I, Up To 109HP	5,000 Hrs	12 Yrs	.50
090020	Grader, Motor, Class II, 110 to 134 HP	6,000 Hrs	13 Yrs	.75
090030	Grader, Motor, Class III, 135 to 149 HP	6,000 Hrs	13 Yrs	.75
090040	Grader, Motor, Class IV, 150 HP and Greater	6,000 Hrs	12 Yrs	1.00
110010	Loader, Crawler, up to 1.9 Cu Yd Capacity	4,000 Hrs	13 Yrs	.75
110020	Loader, Crawler, 2 Cu Yd Capacity and Greater	4,000 Hrs	13 Yrs	.75
115000	Loader, Pnmtc Trd, to 3000 Lb Op. Cap. (Under 1 Cu Yd)	3,000 Hrs	10 Yrs	1.00
115010	Loader, Pnmtc Trd, Inte-gral, Max 5199 Lb Op Cap	5,000 Hrs	13 Yrs	.75
115020	Loader, Pnmtc Trd, Inte-gral 5200 to 6699 Lb Op Cap	5,200 Hrs	13 Yrs	1.00
115030	Loader, Pnmtc Trd, Inte-gral, 6700 to 8000 Lb Op Cap	5,500 Hrs	13 Yrs	.75
115040	Loader, Pnmtc Trd, Inte-gral, 8001 lb. Op and Greater	6,500 Hrs	13 Yrs	1.00

## NEW OR INNOVATIVE EQUIPMENT IDEAS AND CONCEPTS

### REPLACEMENT ANALYSIS (TX) (continued)

CLASS CODE	CLASS CODE DESCRIPTION	STANDARD FOR USAGE	STANDARD FOR AGE	STANDARD FOR REPAIR
122010	Mixer, Concrete, Portable, up to 6 Cu. Ft. Capacity	8,000 Hrs.	20 Yrs	1.00
122020	Mixer, Concrete, Portable, 9 Cu. Ft. and Greater	1,000 Hrs	20 Yrs	1.00
130010	Mower, Lift or Trail, Flail 5-7 Ft.	2,000 Hrs	14 Yrs	1.50
130020	Mower, Lift or Trail, Flail 7-9 Ft.	1,500 Hrs	14 Yrs	1.50
132010	Mower, Lift or Trail, Rotary 5-7 Ft.	1,500 Hrs	14 Yrs	1.50
132020	Mower, Lift or Trail, Rotary 7-9 Ft.	1,500 Hrs	14 Yrs	1.50
132030	Mower, Lift or Trail, Rotary Swing Arm	1,000 Hrs	17 Yrs	1.50
132040	Mower, Trail Type, Rotary, 9 Ft and Greater	3,000 Hrs	8 Yrs	1.00
135010	Mower, SF Prop., Riding, Fwd Mt., Rotary, to 60"	1,000 Hrs	11 Yrs	1.00
135020	Mower, SF Prop., Riding, Fwd Mt., Rotary, 60' +	1,000 Hrs	8 Yrs	.50
135040	Mower, Tractor Type, Riding, Rotary, up to 30 HP	1,000 Hrs	10 Yrs	1.00
136010	Mower, Slope, Side Boom, Tractor Mtd., Inc. Tractor	2,000 Hrs	13 Yrs	1.00
140040	Paint Stripe Machine, 2 Color, Multi-Line, Trk Mt	10,000 Hrs	10 Yrs	1.00
154000	Pavement Profiling Machine, Self Propelled	7,000 Hrs	10 Yrs	.50
156010	Paver, Bituminous, Self Propelled	5,000 Hrs	11 Yrs	.50
162020	Pulverizer-Mixer, Earth, Self Propelled	3,000 Hrs	9 Yrs	.50
170010	Roller, Flatwheel, Self Prop 4-6 Ton With Pnmtc Trs	3,000 Hrs	16 Yrs	.75
170020	Roller, Flatwheel, Self Prop 5-8 Ton	4,500 Hrs	16 Yrs	.75
170030	Roller, Flatwheel, Self Prop 8-14 Ton	4,500 Hrs	16 Yrs	.75
174010	Roller, Pneumatic Tired, Self Prop	4,000 Hrs	14 Yrs	1.00
176010	Roller, Tamping, Self Propelled	3,000 Hrs	15 Yrs	.50
178010	Roller, Vibrating, Self Propelled	2,000 Hrs	15 Yrs	.50
178020	Roller, Vibrating, Self Prop with Pneumatic Tires	2,500 Hrs	12 Yrs	.50
186000	Sign, Electronic Changeable Trailer Mtd.	6,000 Hrs	12 Yrs	1.00
186010	Sign, Electronic Changeable,	6,000 Hrs	12 Yrs	1.00
192010	Sprayer, Herbicide/Insecticide Trk Mt (In Truck)	6,300 Hrs	9 Yrs	1.00
194010	Spreader, Aggregate, Self Prop	5,000 Hrs	15 Yrs	1.00
202010	Sweeper, Road, Self Propelled	3,000 Hrs	10 Yrs	1.00
204020	Sweeper, Street, Truck Mounted	5,000 Hrs	8 Yrs	.75
204030	Sweeper, Street, Truck Mounted Regenerative Air, up to 6 CY	5,000 Hrs	8 Yrs	.50
204040	Sweeper, Street, Truck Mounted Regenerative Air, 6 CY & Up	5,000 Hrs	8 Yrs	.75
214000	Tank, Water, Truck Mtd., Inc. Truck	140,000 M	12 Yrs	1.00
214010	Tank, Water, Truck Mtd., Inc. Truck	4,000 Hrs.	12 Yrs	1.00
220010	Tractor, Crawler Type (W/ or W/O Dozer) to 100 HP	6,000 Hrs	12 Yrs	.75
220020	Tractor, Crawler Type (W/ or W/O Dozer) to 100 - 129 HP	6,000 Hrs.	12 Yrs	.75
220030	Tractor, Crawler Type (W/ or W/O Dozer) to 130 - 179 HP	6,000 Hrs.	12 Yrs	1.00
230010	Tractor, Pneumatic Tired, to 49 HP (Tractor Only)	3,000 Hrs	14 Yrs	1.00
230020	Tractor, Pneumatic Tired, 50 to 64 HP (Tractor Only)	3,000 Hrs	14 Yrs	1.00
230030	Tractor, Pneumatic Tired, 65 HP and + (Tractor Only)	3,000 Hrs	14 Yrs	1.00
240020	Tractor, Pneumatic Tired, With Loader and Backhoe, to 60 HP	3,500 Hrs	14 Yrs	.75
240030	Tractor, Pnmtc Trd, W/Ldr and Backhoe, 60 HP and up	6,000 Hrs	10 Yrs	.50
260010	Trailer, Eqpt, Tilt Bed/Utility, to 24,000 Capacity	3,000 Hrs	15 Yrs	1.00
260020	Trailer, Eqpt, Tilt Bed/Utility, 24,000 # Cap & Gtr	4,000 Hrs	15 Yrs	1.50
260030	Trailer, Equipment, Gooseneck	0,000 Hrs	15 Yrs	1.50
280010	Trailer, Transport, Platform	,000 Hrs	12 Yrs	1.00
280020	Trailer, Transport, Sign	4,000 Hrs	14 Yrs	1.00
400010	Truck, 4-WD Utility/Carryall	100,000 Mi	7 Yrs	.50
400020	Truck, 4-WD Pickup, all styles	100,000 Mi	7 Yrs	.50
400030	Truck, 2-WD Utility Vehicle,	10,000 Mi	7 Yrs	.50

NEW OR INNOVATIVE EQUIPMENT IDEAS AND CONCEPTS

REPLACEMENT ANALYSIS (TX) (continued)

CLASS CODE	CLASS CODE DESCRIPTION	STANDARD FOR USAGE	STANDARD FOR AGE	STANDARD FOR REPAIR
	3961 to 4850 GVWR, Series 66			
410010	Truck, Carryall, up to 6950 LB	100,000 Mi	7 Yrs	.50
410020	Truck, Carryall, 7,000 LB and Grter	100,000 Mi	7 Yrs	.50
420010	Truck, Cargo or Window Van up to 6,200 LB	100,000 Mi	8 Yrs	.50
420020	Truck, Cargo or Window Van, 6,200 LB and Greater	100,000 Mi	8 Yrs	.50
430010	Truck, Light Duty, Pickup, up to 4600 Lb GVWR	100,000 Mi	8 Yrs	.50
430020	Truck, Light Duty, Pickup, 4600 to 6199 LB GVWR	100,000 Mi	7 Yrs	.50
430030	Truck, Light Duty, PU, Other Bdy Styles, 4600-6199 GVWR	100,000 Mi	7 Yrs	.50
430040	Truck, Hvy Duty Compact, 4320-5600 GVWR, Series 852-3	100,000 Mi	7 Yrs	.50
430050	Truck, Extended Cab Compact 4245-5034 GVWR, Ser 854	100,000 Mi	7 Yrs	.50
430070	Truck, Ext. Cab ½ Ton, 6000-5250 GVWR, Ser 863	100,000 Mi	7 Yrs	.50
440010	Truck, Light Duty, Pickup, 6200 to 7999 Lb GVWR	100,000 Mi	7 Yrs	1.00
440020	Truck, Light Duty, PU, 6200-7999 GVWR, Other Body	100,000 Mi	7 Yrs	.50
440030	Truck, Ext. Cab, 3/4 Ton, 72-8800 GVWR, Series 868	100,000 Mi	7 Yrs	.50
450010	Truck, Light Duty, 8000-8900 GVWR Pickup Body	100,000 Mi	7 Yrs	.50
450020	Truck, Light Duty 8000-8900 GVWR, Other Body	100,000 Mi	7 Yrs	.50
460010	Truck, Lt Dty, 9,000 GVWR & Gtr Pickup Body	100,000 Mi	7 Yrs	.50
460020	Truck, Lt Dty, 9000 GVWR & Gtr. Other Body Styles	100,000 Mi	7 Yrs	.50
470020	Truck, Lt Dty, Cr Cab, 7901-8999 GVWR, All Body Styles	100,000 Mi	7 Yrs	.50
470030	Truck, Lt Dty, Cr Cab, 9000 14900 GVWR, All Body Styles	100,000 Mi	7 Yrs	.50
480010	Truck, Pltfrm, Pltfrm Dump, Stake, 9000-14900 GVWR	100,000 Mi	7 Yrs	.50
490010	Truck, Light/Med, 14,500 to 17,340 GVWR, Series 940	100,000 Mi	7 Yrs	.50
500010	Truck, All Body Styles 15,000 to 18,900 GVWR	115,000 Mi	8 Yrs	.50
510010	Truck, All Body Styles 19,000 to 20,900 GVWR	115,000 Mi	8 Yrs	.50
520010	Truck, All Body Styles Exc Conv Dump 21000-25400 GVWR	115,000 Mi	8 Yrs	.50
520020	Truck, Conventional Dump, 21000 to 25400 GVWR	100,000 Mi	8 Yrs	.50
520030	Truck, Ejection Type Mat Body, 21000-25400 GVWR	100,000 Hrs	8 Yrs	.50
530010	Truck, All Body Style, Exc. Conv. Dump/Wrecker 25,500 - 28,900 GVWR	125,000 Mi	10 Yrs	.75
530020	Truck, Conventional Dump, 25500 to 28900 GVWR	125,000 Mi	10 Yrs	.75
530030	Truck, Ejection Type Material Body, 25500 - 38900	120,000 Mi	10 Yrs	.75
540010	Truck, Dump, Single Rear Axle, 29000-42900 GVWR	140,000 Mi	14 Yrs	1.00
540020	Truck, Dump, Tndm Rear Axle, 43000 GVWR & Gtr	150,000 Mi	12 Yrs	1.00
550010	Truck, All Style Exc Dump, Single Rear Axle 29-38,900 GVWR	120,000 Mi	11 Yrs	.75
550020	Truck, All Style Exc Dump, Tandem Axle Dump 39,000 GVWR Plus	120,000 Mi	11 Yrs	.75
600010	Truck Tractor, Single Rear Axle up to 60,000 GVWR	125,000 Mi	13 Yrs	.75
600020	Truck Tractor, Single Rear Axle, 60000 GCWR & Gtr	125,000 Mi	13 Yrs	1.00
600030	Truck Tractor, Tandem Rear Axle, All GCWR	200,000 Mi	10 Yrs	1.00

## NEW OR INNOVATIVE EQUIPMENT IDEAS AND CONCEPTS

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### REPLACEMENT ANALYSIS (TX) (continued)

#### Originally TERM Looked At:

70 Class Codes of the 310 in EOS	22.58%
12,584 Units of Equipment of 17,357 active status	72.51%
\$251,709,530.54 of the Original Purchase Cost	82.28%

#### Currently TERM Looks At:

125 Class Codes of the 320 in EOS	39.06%
15,552 Units of Equipment of 17,481	88.97%
\$483,160,138.54 of the Original Purchase Cost	88.39%

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Submitted by: Scott D. Burford, Director  
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Texas Department of Transportation

## **b) REPLACEMENT ANALYSIS (CA)**

### Replacement Analysis

The California Department of Transportation, Equipment Service Center establishes and maintains equipment age and usage standards for its entire 14,015 fleet unit inventory.

The fleet is grouped into item categories (sedan, ½ ton pickup, 4 yard dump truck, etc.) and identified by a specific Maint. Class (item number 00101 = sedan, compact). There are over 650 different item classifications in the California DOT Inventory.

### AGE AND USAGE STANDARD LISTING

The attached Age and Usage Standard Listing provides the various equipment in the fleet inventory identified by relative maint. class. The listing provides:

1. Maint. Class
2. Equipment Description
3. Age Projected Replacement Standard
4. Usage Projected Replacement Standard
5. Usage Standard Criteria - Miles or Hours

The information provides general guidelines to assist in the equipment replacement evaluation process. In addition, other considerations in the replacement process include (in no particular order) equipment repair costs, equipment utilization, obsolescence, and program changes.

### AGE/USAGE STANDARD METHODOLOGY

Age and usage standards are reviewed by the Fleet Management Branch annually and adjustments made if necessary.

For an incoming brand new item number without an existing age and usage standard, Fleet Management:

1. Determines projected equipment usage by evaluating the program application and discussions with equipment managers.
2. Reviews equipment specifications and discusses equipment life expectancy with the equipment engineers/vendors.
3. Locates comparable units if available and checks for uniformity.
4. Considers programs or packages which may impact equipment life and performance (life-cycle costing, extended warranty, PM).
5. Checks the age and usage "base" against program application. Investigates equipment upgrades or technological improvements which may extend equipment life. Ensures any revisions to standards will not impact the program user, provide a better product and reduce resource obligations, while remaining cost effective.

All listed data was provided from the Equipment Service Center's Office Equipment Management System (EMS), a system which records all fleet equipment usage, repair, and fuel information. The reports are available upon demand and are updated daily and monthly.

NEW OR INNOVATIVE EQUIPMENT IDEAS AND CONCEPTS

REPLACEMENT ANALYSIS (CA) (continued)

Maint. Class	Description	Age	Usage Mi/Hr	Usage Criteria
00101	Sedan, Compact	084	100000	M
00103	Sedan (Intermediate)	084	100000	M
00104	Sedan, Intermediate, w/Tracking Device	084	100000	M
00107	Sedan, Sub Compact, Electric	060	060000	M
00108	Sedan, Variable Fuel, Gas/M85	084	100000	M
00144	Van, Mini, 7 Passenger, Computer	096	100000	M
00150	Van, Mini, Pass, Non-Pool	096	100000	M
00184	Van, 12 Passenger, Commuter, CNG	096	100000	M
00194	Van, 12 - 15 Passenger, Commuter	108	120000	M
00195	Van, Commuter, Lift Equipped	096	200000	M
00200	Van, Delivery, ½ Ton	096	100000	M
00210	Van, 12-15 Pass, Non-Com, Gas/CNG	108	120000	M
00250	Van, 12 - 15 Passenger, Non-Commute	108	130000	M
00261	Van With Profiler	084	200000	M
00301	Station Wagon, Compact	084	100000	M
00302	Station Wagon	108	130000	M
00400	Pickup, Mini	096	120000	M
00407	Pickup, Mini, Electric	096	100000	M
00410	Pickup, Mini, Gas/CNG	096	120000	M
00470	Van, Mini	096	100000	M
00521	Bus, 21 - 36 Passenger	108	130000	M
00607	Pickup with A/C, ½ Ton	108	130000	M
00610	Pickup, ½ Ton, Gas/CNG	108	130000	M
00688	Blazer Body Type	108	130000	M
00690	Sport Utility, Mid-Size 2x2	108	130000	M
00707	Pickup ½ Ton A/C Diesel	120	150000	M
00801	Pickup with Plow	096	150000	M
00804	Pickup Crew Cab	120	150000	M
00807	Pickup with A/C, 3/4 Ton	120	150000	M
00810	Pickup, 3/4 Ton, Gas/CNG	120	150000	M
00830	Utility Body	108	150000	M
00831	Utility Body with Plow	096	150000	M
00833	Utility Body, 3/4 Ton, Gas/CNG	108	150000	M
00840	Van, Survey	120	175000	M
00841	Van, Survey, Vanguard	120	175000	M
00844	Utility Body, Crew Cab	120	150000	M
00860	Van With Deflectometer	120	012000	H
00870	Van, Delivery	120	150000	M
00877	Van, Mechanics	120	150000	M
00901	Pickup with Plow, Diesel	120	175000	M
00904	Pickup, Crew Cab, Diesel	120	175000	M
00907	Pickup, with A/C, Diesel	120	175000	M
00930	Utility Body, Diesel	120	175000	M
00931	Utility Body, with Plow, Dsl.	120	175000	M
00944	Utility Body, Crew Cab, Dsl.	120	175000	M
00970	Van, Delivery, Diesel	120	175000	M
01000	Pickup, 1 Ton	120	150000	M
01001	Pickup with Plow	108	150000	M
01009	Pickup Crew Cab w/Tr Mtd Skidtes	096	150000	M
01028	Van, Mobile Telecommunications	144	150000	M
01030	Utility Body	096	150000	M
01031	Service Body with Plow	096	150000	M
01033	Utility Body W/Flow, Gas/CNG	096	150000	M
01034	Utility Body, Crew Cab	096	150000	M
01036	Mechanic Body	144	150000	M
01037	Cone Body	132	150000	M
01039	Survey Body	144	150000	M
01040	Van, Survey	120	100000	M
01041	Plumbing Truck	108	150000	M
01049	Cargo Body 9 Ft w/o Hoist	144	150000	M
01050	Cargo Body 9 Ft with Hoist	144	150000	M
01051	Cargo Body w/o Hoist, w/Plow	108	150000	M
01052	Cargo Body w/o Hoist, w/Plow	108	150000	M
01054	Cargo Body w/o Hoist, Utility	144	150000	M
01055	Cargo Body w/o Hst, Util, w/Plow	108	150000	M

NEW OR INNOVATIVE EQUIPMENT IDEAS AND CONCEPTS

REPLACEMENT ANALYSIS (CA) (continued)

Maint. Class	Description	Age	Usage Mi/Hr	Usage Criteria
01056	Cargo Body, w/Hoist, Util, W/O Plow	108	150000	M
01057	Cargo Body, w/Hoist, Litter	108	150000	M
01059	Cargo Body 9 Ft. w/o Hoist, Gas/CNG	144	150000	M
01060	Cargo Body 9 Ft. w/Hoist, Gas/CNG	144	150000	M
01063	Cargo Body, Crew Cab, w/o Hoist	144	150000	M
01064	Cargo Body, Crew Cab	144	150000	M
01065	Cargo Body, Crew Cab w/Plow	144	130000	M
01070	Van, Delivery	108	150000	M
01071	Van, Delivery, High-Cube Body	144	150000	M
01080	Personnel Hoist, 28' Elec Body	108	150000	M
01082	Drill, Core Testing	144	010000	B
01100	Pickup, Diesel	120	175000	M
01101	Pickup with Plow, Diesel	108	175000	M
01104	Pickup, Crew Cab, Diesel	120	175000	M
01130	Utility Body, Diesel	120	175000	M
01131	Utility Body, with Plow, Diesel	120	175000	M
01134	Utility Body, Crew Cab, Diesel	120	175000	M
01136	Mechanic Body, Diesel	120	175000	M
01137	Cone Body, Diesel	120	175000	M
01139	Survey Body, Diesel	120	175000	M
01147	Utility-Cone Setter, One-Ton Dsl.	108	150000	M
01149	Cargo Body without Hoist, Dsl	120	175000	M
01150	Cargo Body with Hoist, Diesel	120	175000	M
01151	Cargo Body w/o Hoist, w/Plow Dsl	108	175000	M
01152	Cargo Body w/Hoist, w/Plow Dsl	108	175000	M
01154	Cargo Body w/o Hoist, Util Dsl	108	175000	M
01155	Cargo Body w/o Hoist, Util w/Plow Dsl	108	175000	M
01157	Cargo Body Litter Pickup W/O HST	108	150000	M
01163	Cargo Body, Crew Cab, w/o Hst, Dsl	120	175000	M
01164	Cargo Body with Crew Cab, Dsl	120	175000	H
01170	Van, Cargo, Diesel	120	175000	M
01180	Personnel Hoist 28', UB, Elec., Dsl.	108	175000	M
01230	Utility Body, 1-Ton, Gas	108	150000	M
01236	Mechanic Body	108	150000	M
01237	Cone Body	108	150000	M
01238	Sign Body, Gas	120	100000	M
01257	Cargo Body w/ Hst, Litter Pick-up	108	150000	M
01280	Personnel Hoist, 28' UB, Elec.	108	150000	M
01282	Personnel Hst 34 Ft. Art Telescopic	108	150000	M
01330	Utility Body, Super 1 Ton, Diesel	120	175000	M
01336	Mechanic Body	108	175000	M
01337	Cone Body	108	175000	M
01338	Sign Body	108	175000	M
01339	Survey Body, 1-Ton Diesel	120	175000	M
01341	Plumbing Truck	108	175000	M
01347	Utility, Cone-Setter, 1-Ton DSL	108	175000	M
01357	Cargo Body, W/Hoist, Litter	108	175000	M
01360	Truck, Mounte FWD	144	175000	M
01380	Personnel Hoist, 28',UB, Elec, Dsl	108	175000	M
01382	Personnel Hst. 34 Ft. Art Telescopic	108	175000	M
01428	Van, Mobile Telecommunications	144	150000	M
01436	Mechanic Body, Step	144	150000	M
01437	Cone Body	132	150000	M
01441	Plumbing Truck	144	150000	M
01470	Step Van, Personnel	144	150000	M
01477	Step Van, Mechanics	144	150000	M
01478	Step Van, Mobile Laboratory	144	150000	M
01479	Step Van, Signal Loop Repair	144	150000	M
01497	Wrecker	072	150000	M
01498	Wrecker, CNG	072	150000	M
01500	Pickup Body w/Fifth Wheel	120	175000	M
01530	Utility Body	120	175000	M
01536	Mechanic Body, Diesel	120	175000	M
01537	Cone Body, Diesel	132	175000	M
01538	Sign Body	120	175000	M



NEW OR INNOVATIVE EQUIPMENT IDEAS AND CONCEPTS

REPLACEMENT ANALYSIS (CA) (continued)

Maint. Class	Description	Age	Usage Mi/Hr	Usage Criteria	
01541	Plumbing Truck, Diesel		120	175000	M
01549	Cargo Body, 9 Ft. w/o Hoist		120	175000	M
01550	Cargo Body 9 Ft. w/Hoist	144	150000		M
01570	Step Van, Diesel		132	175000	M
01577	Step Van, Mechanics, Diesel		144	175000	M
01578	Step Van, Mobile Lab, Diesel		144	175000	M
01583	Stencil, w/Paint Unit, Diesel		168	175000	M
01597	Wrecker, Diesel	072	175000		M
01802	Barrier Vehicle		144	150000	M
01837	Cone Picker		096	150000	M
01838	Sign Body		144	150000	M
01849	Cargo Body without Hoist	144	150000		M
01850	Cargo Body with Hoist		144	150000	M
01883	Stencil with Paint Unit		144	150000	M
01886	Thermoplastic Trfc Strp Tilt Cab		156	150000	M
01887	Thermoplastic Stencil w/Marker		144	150000	M
01898	Drill, Truck, 2 Axle		144	150000	M
01930	Utility, Body, Super 1-Ton DSL		120	175000	M
01936	Mechanic Truck, 2-Ton Diesel		120	175000	M
01937	Cone, Body (Bay Bridge Special)		144	175000	M
01938	Sign Body		168	175000	M
01949	Cargo Body, w/o Hoist, Diesel		120	175000	M
01983	Stencil with Paint Unit, Diesel		168	175000	H
01996	Wrecker, Car Carrier, Diesel		072	175000	M
01997	Wrecker, 8-Ton, Diesel		072	230000	M
01998	Drill Rig, Truck Mounted, Diesel		168	175000	M
02220	Dump Body		144	150000	M
02221	Dump Body with Plow		120	150000	M
02222	Dump Body with Spreader	144	150000		M
02223	Dump Body with Plow & Spreader		120	150000	M
02236	Mechanic Body		144	150000	M
02249	Cargo Body without Hoist	144	150000		M
02250	Cargo Body with Hoist		144	150000	M
02255	Cargo Body Pavement Marker-Dot		144	150000	M
02258	Tree Trimmer		144	150000	M
02260	Cargo Body, Tilt Cab		144	150000	M
02280	Personnel Hoist		144	150000	M
02288	Lube Truck		144	150000	M
02293	Landscape Spray, Tilt Cab 1000 G		144	150000	M
02294	Landscape Spray, Tilt Cab, 500 G		144	150000	M
02320	Dump Body		168	175000	M
02321	Dump Body with Plow		120	175000	M
02322	Dump Body with Spreader	168	175000		M
02323	Dump Body with Plow & Spreader		120	175000	M
02330	Utility Body		168	175000	M
02338	Sign Installation, Diesel		168	175000	M
02349	Cargo Body w/o Hoist 12' Dsl		168	175000	M
02350	Cargo Body with Hoist 12' Dsl		168	175000	M
02355	Cargo Body, Marker-Dot, Dsl		168	175000	M
02358	Cargo Body, Tree Trim, Dsl.		168	175000	M
02363	Cargo Body, Crew, w/o Hoist, Dsl.		168	175000	M
02364	Cargo Body, Crew, w/Hoist, Dsl.		168	175000	M
02382	Personnel Hoist, W/Util Bdy 35"		168	175000	M
02383	Landscape Spray, 400 Gallons		168	175000	B
02387	Thermoplastic Stencil w/Marker Dsl	168	175000		M
02393	Landscape Spray, Tilt Cab, 1000 G	168	175000		M
02402	Barrier Vehicle		144	150000	M
02439	Mechanic Body		144	180000	M
02449	Cargo Body without Hoist	144	130000		M
02450	Cargo Body with Hoist		144	150000	M
02452	Cargo Body 12 Ft. Scissor Hoist		144	180000	M
02454	Cargo Body w/Compressor, Air Drill	144	150000		B
02455	Tree Trimmer with Hoist		144	130000	M
02456	Tender, Thermoplast, w/2 Preheater	168	180000		M
02457	Cargo Body w/Compressor & Sandblst		144	150000	M

NEW OR INNOVATIVE EQUIPMENT IDEAS AND CONCEPTS

REPLACEMENT ANALYSIS (CA) (continued)

Maint. Class	Description	Age	Usage Mi/Hr	Usage Criteria	
02466	Compressor Unit 125-200 CFM		144	150000	B
02478	Van Body, Mobile Laboratory		144	104000	M
02482	Personnel Hoist		144	150000	M
02490	Digger Derrick w/Utility Body		144	150000	M
02497	Landscape Spray		144	150000	M
02549	Cargo Body, 15 Ft w/o Hoist		168	180000	M
02550	Cargo Body, 15 Ft with Hoist		168	180000	M
02551	Cargo Body, 15', w/Hoist, w/Plow		168	180000	M
02552	Cargo Truck, 15 Ft, w/Scissor Lft		168	180000	M
02553	Cargo Body, Scissor Lift w/Plow		144	150000	M
02554	Cargo Body w/Compressor, Air Dril	168	180000		M
02555	Cargo Body, Pavement Marker Do		168	175000	M
02556	Tender, Thermoplastic, w/2 Prehtrs	168	180000		M
02558	Cargo Body, Tree Trimmer		168	180000	M
02580	Personnel Hoist 50' w/Tree Trim		168	180000	M
02582	Personnel Hoist 45' w/Util Bdy		168	180000	M
02587	Thermopl Stencil W/Pre Heat CA		168	175000	M
02590	Digger Derrick, w/Util Body		168	180000	M
02591	Wrecker		072	230000	M
02592	Landscape Spray, 500-1000 Gals		168	180000	B
02593	Landscape Spray, Tilt Cab, 1000 GL	168	180000		M
02594	Digger Derrick, with Sign Body		168	180000	M
02920	Dump Body		168	200000	M
02922	Dump Body with Spreader	168	200000		M
02987	Personnel Hoist, 45' Tele, Util Bdy		168	250000	M
03017	Dump Body with Loader, Tilt Cab		144	150000	M
03020	Dump Body		144	150000	M
03052	Cargo Body with Scissors Lift		144	150000	M
03059	Crane		144	130000	M
03080	Tank, Spray Rig	144	150000		M
03098	Fence Repair		144	150000	M
03099	Fence Repair, Tilt Cab		144	150000	M
03300	Tractor, Truck		168	250000	M
03302	Barrier Vehicle		168	250000	M
03304	Barrier Vehicle, CNG		168	250000	M
03317	Dump Body with Loader, Tilt Cab		168	250000	M
03320	Dump Body		168	250000	M
03321	Dump Body with Plow		120	175000	M
03322	Dump Body with Spreader	168	200000		M
03323	Dump Body with Plow & Spdr		120	175000	M
03324	Dump Body with 2 Plows	120	175000		M
03325	Dump Body with 2 Plows & Spdr		120	175000	M
03349	Cargo Body, 15' w/o Hoist	144	250000		M
03351	Cargo Body with Plow		168	250000	M
03352	Cargo Body, w/Scissor Lift		144	250000	M
03356	Tender, Thermoplastic, w/2 Prehtrs	144	250000		M
03358	Striper Tender		168	250000	M
03359	Cargo Body with Crane		168	250000	M
03368	Truck, 4 Cy., Hook-Lift		120	175000	M
03375	Emulsion Distributer, 800 Gal.		144	150000	M
03378	Personnel Hoist, Art Bridge Insp.		168	180000	M
03379	Personnel Hoist Art 45 Ft UB Elec		168	180000	M
03380	Personnel Hoist 65' Tree Trimmer		168	250000	M
03381	Tank Sp Rig Contourmatic Boom		168	250000	M
03382	Personnel Hst, Art w/Util Bdy Elec, 65'		168	250000	M
03383	Personnel Hoist w/Work Platform		168	200000	M
03384	Trash Compactor, 16 CY Rear Load	168	250000		M
00385	Trash Compactor, 20 CY Side Load	168	250000		M
03386	Trash Compactor, Rear Load, w/Plow		168	250000	M
03387	Personnel Hoist Art 50 Ft T/Trm		168	180000	M
03389	Mobile Fuel Supply		168	250000	M
03390	Digger Derrick with Utility Body		168	250000	M
03391	Wrecker		072	230000	M
03393	Landscape Spray, Tilt Cab, 1000 G	168	250000		M
03394	Digger Derrick, Tilt Cb Sign Body		168	250000	M

NEW OR INNOVATIVE EQUIPMENT IDEAS AND CONCEPTS

REPLACEMENT ANALYSIS (CA) (continued)

Maint. Class	Description	Age	Usage Mi/Hr	Usage Criteria	
03398	Fence Repair		168	250000	M
03720	Dump Body		168	200000	M
03722	Dump Body with Spreader	168	200000		M
03784	Litter Bag Machine		168	250000	M
03794	Digger Derrick		168	250000	M
04300	Tractor, Truck		168	300000	M
04320	Dump Body		168	300000	M
04350	Cargo Body with Hoist		168	300000	M
04355	Cargo Body w/Comprsr & Sandst		168	300000	M
04375	Emulsion Distributor		168	300000	M
04382	Penetrometer		180	016000	M
04384	Striper Low Entry Thermoplastic		168	300000	M
04700	Truck Tractor		168	300000	M
04720	Dump Body		168	230000	M
04721	Dump Body with Plow		120	200000	M
04722	Dump Body with Spreader	168	230000		M
04749	Cargo Body 15' w/o Hoist	168	300000		M
04753	Mud-Jack Tender w/Tank & Cargo Bdy		168	300000	M
04759	Drill Tender		168	300000	M
04790	Digger Derrick		168	300000	M
04891	Drill		144	150000	M
04920	Dump Body		168	230000	M
05280	Tank Spray Rig		144	150000	M
05300	Truck Tractor		168	500000	M
05301	Truck Tractor with Plow		168	500000	M
05310	Truck, Driving Simulator		168	200000	M
05320	Dump Body		168	230000	M
05321	Dump Body with Plow		120	200000	M
05322	Dump Body with Spreader	168	230000		M
05323	Dump Body with Plow & Spreader		120	200000	M
05324	Dump Body with 2 Plows	120	200000		M
05325	Dump Body w/2 Plows & Spreader		120	200000	M
05349	Cargo Body w/o Hoist		168	300000	M
05351	Cargo Body with Plow		168	300000	M
05356	Tender, Thermoplastic, w/4 Prehtrs	168	300000		M
05358	Striper Tender, Paint		168	300000	M
05359	Drill Tender, w/Integ Water Tank		156	300000	M
05360	Striper, Low Entry Cab Hot Paint		168	300000	M
05370	Catch Basin & Sewer Line Cleaner		168	250000	M
05380	Tank, Spray Rig, 3,000 Gal		192	200000	M
05381	Tank, Spray Rig w/Contour, Boom		192	200000	M
05382	Personnel Hoist, Bridge Insp		168	250000	M
05383	Catch Basin & Sewer Line Cleaner		168	250000	M
05384	Truck, Litter Pickup		168	250000	M
05385	Personnel Hoist w/Work Platform		168	200000	M
05390	Bridge Repair		168	250000	M
05392	Drill, Trk Mtd.		168	016000	M
05395	Crane, Shop Use		168	250000	M
05396	Crane, Mobil Structural Handling		168	250000	M
10101	Sedan, Compact, 4 WD		084	100000	M
10150	Van, Mini, Pass., Non-Pool, 4 WD		096	100000	M
10400	Pickup, Compact, 4 WD		096	120000	M
10607	Pickup with A/C, ½ Ton 4 WD		120	130000	M
10680	Jeep		120	130000	M
10688	Blazer Body Type		108	130000	M
10690	Station Wagon		108	130000	M
10691	Utility, 4-Door 4WD W/Nav. System	108	130000		M
10801	Pickup with Plow		096	140000	M
10804	Pickup Crew Cab		108	140000	M
10807	Pickup with A/C, ¾ Ton 4 WD		108	140000	M
10830	Utility Body		108	140000	M
10831	Utility Body with Plow		096	140000	M
10844	Utility Body, Crew Cab		108	140000	M
10880	Carryall Suburban, 4 WD		120	140000	M
10901	Pickup, with Plow, Diesel	120	175000		M

NEW OR INNOVATIVE EQUIPMENT IDEAS AND CONCEPTS

REPLACEMENT ANALYSIS (CA) (continued)

Maint. Class	Description	Age	Usage Mi/Hr	Usage Criteria
10904	Pickup, Crew Cab, Diesel	120	175000	M
10907	Pickup, w/Air Cond, Dsl	120	175000	M
10930	Utility Body, Diesel	120	175000	M
10931	Utility Body, with Plow, Dsl	120	175000	M
10944	Utility Body, 4 WD, w/Crew Cb Dsl	120	175000	M
10980	Carryall, Suburban, Diesel	120	175000	M
11001	Pickup w/ Plow, 4 WD	096	150000	M
11005	Pickup, Crew Cab, w/Plow	108	120000	M
11030	Utility Body	120	140000	M
11031	Utility Body with Plow	108	140000	M
11034	Utility Body, Crew Cab	144	150000	M
11036	Mechanic Body	144	150000	M
11037	Drill, Auger	120	140000	M
11039	Survey Body	120	140000	M
11051	Cargo Body w/hst, w/plow, 4x4	144	150000	M
11052	Cargo Body, W/Hoist & Plow, 4 WD	144	150000	M
11100	Pickup, 1-Ton Diesel 4 WD	144	150000	M
11101	Pickup w/Plow, 4 WD, Diesel	144	150000	M
11130	Utility Body	144	140000	M
11131	Utility Body with Plow, Dsl	144	150000	M
11134	Utility Body, Crew Cab, 4 WD, Dsl	144	150000	M
11136	Mechanic Body, Diesel	144	150000	M
11149	Cargo Body w/o Hoist, Utility	120	175000	M
11151	Cargo Body, w/o Hoist, w/Plow Dsl	144	150000	M
11154	Cargo Body, w/o Hoist, Utility	120	175000	M
11163	Cargo Body, Crew Cab w/o Hoist D	144	175000	M
11339	Survey Body, Super 1-Ton, 4WD Dsl	144	150000	M
11382	Drill, Core Testing, 4x4	144	010000	H
11589	Tunnel Washer, Unimog	144	010000	H
13321	Dump Body with Plow	120	175000	M
13323	Dump Body with Plow Spreader	120	175000	M
13330	Drill Tender with Service Body	168	200000	M
13357	Drill Tender w/Integ Water Tank	168	200000	H
13390	Drill Rig	156	016000	M
13391	Wrecker	072	200000	M
13721	Dump Body with Plow	120	175000	M
13723	Dump Body w/Plow & Spreader	120	175000	M
13724	Dump Body with 2 Plows	120	175000	M
13725	Dump Body w/ 2 Plow and Spreader	120	175000	M
14290	Drill	168	016000	H
15321	Dump Body, Tag Axle, w/Plow	120	200000	M
15324	Dump Body 4 WD Tag Axle w/2 Plows	120	200000	M
15490	Drill	168	016000	H
15721	Dump Body with Plow, 6 WD	120	200000	M
15724	Dump Body, with 2 Plows, 6 WD	120	200000	M
17002	Rotary Snowplow, Fwd, Conventional	228	015000	H
17003	Rotary Snowplow, Ldr Mtd, 1200 T/Hr	228	015000	H
17004	Rotary Snowplow, Conventional	228	015000	H
17005	Rotary Snowplow, Ldr Mtd, 1400 T/Hr	228	007000	H
17006	Rotary Snowplow, Ldr Mtd, Art	228	015000	H
17007	Rotary Snowplow, Snowblast	228	007000	H
17010	Rotary Snowplow, Norland	228	007000	H
17011	Rotary Snowplow, Robla 5000 T/Hr	228	007000	H
17101	Rotary Snowplow, Trk MT, 2,200 T/H	228	008000	H
17102	Rotary Snowplow, Trk MT, 2,600 T/H	228	008000	H
17103	Rotary Snowplow, Trk MT, 3,500 T/H	228	008000	H
17104	Rotary Snowplow, Chas MT, 5,000 TPH	240	007000	H
17105	Rotary Snowplow, Cab Ovr, 2,600 T/H	228	008000	H
17106	Rotary Snowplow, Cab Ovr, 3,500 T/H	228	008000	H
22000	Boat, Ferry	240	010000	H
22022	Boat, Trailerable	240	010000	H
22024	Boat, Non-Trailerable	240	010000	H
24402	Weedburner, Trl Mtd.	168	011000	H
25202	Chipper, Brush	156	010000	H
25204	Chipper, Brush, Disc, Art	144	008000	H

NEW OR INNOVATIVE EQUIPMENT IDEAS AND CONCEPTS

REPLACEMENT ANALYSIS (CA) (continued)

Maint. Class	Description	Age	Usage Mi/Hr	Usage Criteria
25205	Chipper, Brush, Diesel	156	010000	H
26103	Cleaner Culvert 50 Gal Trl Mtd.	144	006000	H
26302	Cleaner, Sign, to 124 Gallons	144	004000	H
26402	Cleaner, Sign, 350 Gal Trl Mtd.	144	004000	H
26604	Cleaner, Steam 151-300 Gal/Hr	144	001000	H
26606	Cleaner, Steam 301+ Gal/Hr	144	007000	H
27000	Combination Power Supply System	180	003000	H
27106	Compressor, Air 125 CFM, Trlr Mtd	192	006000	H
27108	Compressor, Air 185 CFM, Trl Mtd	192	008000	H
27110	Compressor, Air 200 CFM, Trl Mtd	192	010000	H
27111	Compressor, Air, 250-300 CFM, Skid	192	010000	H
27112	Compressor, Air, 300 CFM, Trl Mtd	192	010000	H
27114	Compressor, Air 600 CFM, Trl Mtd	168	010000	H
27120	Compressor, Air 1200 CFM, Trl Mtd	192	010000	H
27402	Conveyor Belt, Trailer Mounted	276	002000	H
27412	Conveyor Belt with Gravel Screen	180	006000	H
27621	Crane, Diesel Self Propelled 10 Ton	180	012000	H
27631	Crane, Gas Self Propelled 12 Ton	180	010000	H
27651	Barrier Transfer Unit, Diesel	240	008000	H
27682	Pers Hoist, Bridge Insp, Sif Prop	180	004000	H
28508	Cutter, Stump	192	004000	H
28510	Cutter, Pavement, Ride-On	120	005000	H
31702	Drill Rig Horiz Crawler Trk Mtd	204	087000	H
31704	Drill Rig Concrete Trailer Mounted	204	006700	H
31705	Drill Rig Concrete Skid Mounted	204	006700	H
31706	Drill Rig Earth Trailer Mounted	204	016000	H
31707	Drill Rig Tr Mounted Earth Concrete	204	016000	H
31792	Drill, Trk Mtd, 4WD, Off-Road Only	204	008700	H
31902	Penetrometer, Trailer Mnt.	180	010000	H
31903	Deflectometer, Trailer Mounted	264	012000	H
31909	Dyreflect System, Trailer Mounted	204	015000	H
35006	Forklift, 1-1/2 Ton	192	017000	H
35008	Forklift, 2 Ton	240	012000	H
35009	Forklift, 2 Ton, Towable	192	017000	H
35010	Forklift, 2-1/2 Ton	240	012000	H
35012	Forklift, 3 Ton	216	017000	H
35014	Forklift, 3 Ton, Towable	216	017000	H
35015	Forklift, 4 Ton	216	017000	H
35016	Forklift, 5 Ton, Towable	216	017000	H
35030	Forklift, 7-1/2 Ton	204	017000	H
35054	Forklift, 1 Ton, Electric, Sit	180	007000	H
35055	Forklift, 1 Ton, Electric, Stand-up	180	007000	H
35056	Forklift, 1-1/2 Ton, Electric	180	007000	H
35058	Forklift, 2 Ton, Electric, Sit	180	007000	H
35059	Forklift, 2 Ton, Electric, Sit	180	007000	H
35702	Generator 5 KW with Flood Light	276	004000	H
35706	Generator, Electric (to 5 KW)	216	007000	H
35720	Generator Electric 126 to 175 KW	180	004000	H
36102	Grader - Tandem Drive, 130 HP	204	012000	H
36108	Grader - All Wheel Drive, 125 HP	180	012000	H
36201	Grader -All Wheel Drv w/Plow, 125HP	204	012000	H
36301	Grader -6 Whl Drv w/Plow, 150 HP	180	010000	H
36304	Grader -6 Whl Drv, 2 Plows, 150 HP	180	010000	H
36401	Grader - 6 Whl Drv, 2 Plows, 175HP	180	010000	H
36550	Grinder, Asphalt, w/o Conveyor 14"	144	005000	H
36563	Grinder, Asphalt, w/Conveyor, 42"	180	009000	H
36564	Grinder, Asphalt, w/Conveyor, 60"	180	009000	H
36565	Grinder, Asphalt, with Conveyor, 7"	180	009000	H
36601	Guard Rail Straightener	192	008000	H
38801	Heavy Vehicle Simulator	540	011000	H
39104	Hot Mix Asphalt Htr & Patchr 4 Cu Yd	228	005000	H
39607	Kettle, Heat Transfer, Dbl Boiler	228	005000	H
39608	Kettle, Heat Transfer, 400 Gal.	228	005000	H
39610	Kettle Heat 301-400 Gal. w/Sp Br	228	005000	H
39612	Kettle Ht. 400 Gl w/Br w/o Eng. Hyd	228	005000	H

NEW OR INNOVATIVE EQUIPMENT IDEAS AND CONCEPTS

REPLACEMENT ANALYSIS (CA) (continued)

Maint. Class	Description	Age	Usage Mi/Hr	Usage Criteria
39615	Longitudinal Crack Sealing Sys	228	005000	H
39804	Kettle Emul Asphalt Trans Pump	216	007000	H
39806	Kettle, Bitum Dist 1-2000 G, Skd Mtd	288	008000	H
41514	Loader 1-1/2 C Y Crawler Trk Mtd	180	009000	H
41802	Loader, Front End, 1/4 Cu Yd	144	009000	H
41804	Loader, Front End, 1/2 Cu Yd	144	009000	H
41828	Loader, Front End, 1 Cu Yd, 3 Wheel	180	010000	H
41832	Loader, Front End, 1 Cu Yd	180	010000	H
41846	Loader, Front End, 1-1/2 Cu Yd	180	010000	H
41864	Loader, Front End, 2-1/2 C.Y.	144	009000	H
41866	Loader, 2 1/2 CY, Remote Control	144	009000	H
41870	Loader, Front End, 3 Cu Yd	144	009000	H
41880	Loader, Self Powrd w/Conveyr Belt	144	009000	H
42710	Marker, Traffic, Ride-on Hot Paint	180	005000	H
42716	Marker w/Prehtr, Thermpls, Hnd Pro	096	003000	H
42717	Marker w/Prehtr, Thermpls, Sif Pro	096	003000	H
43502	Mixer, Concrete, to 4 Cu Ft	216	002000	H
44308	Mower, Lawn, Power, 6 Ft	120	004500	H
44312	Mower, Lawn, Rotary	108	004500	H
44328	Mower, Rotary, 14'	096	004000	H
45501	Paver, Asphalt, Self Propelled	168	003500	H
45520	Profilograph Vehicle	144	001440	H
45521	Utility Vehicle, Off-Hwy, 6x4	096	002000	H
46238	Picker, Debris, Towable	180	003500	H
47706	Pump Unit, Centrif, 3 In	228	003000	H
47708	Pump Unit, Centrif, 4 In	300	004500	H
47710	Pump Unit, Centrif, 6 In	240	002000	H
47732	Pump, Mud Jack - Grouter	204	004000	H
47733	Pump, Mud Jack, Dual Pump, Trl, Mtd.	204	004000	H
47736	Pump Unit, Epoxy Applicator	096	004000	H
47738	Pump Unit, Asphalt Adhesive, Skd Mtd	084	003000	H
47739	Pump, Mud Shaker, Trailer Mount	240	010000	H
47740	Pump Grout Mix, Trailer Mount	240	003000	H
49608	Roller, Pneumatic Tired, Self-Prop	192	004000	H
49609	Roller, Pneumatic Tired, Diesel	180	006000	H
49614	Roller, Tandem, 3 Ton - 5 Ton	240	006000	H
49615	Roller, Tandem, 3 Ton - 5 Ton, Dsl	180	006000	H
49616	Roller, Tandem, 5 Ton - 8 Ton	240	006000	H
49617	Roller, Tandem, 5 Ton - 8 Ton, Dsl	180	006000	H
49618	Roller, Vib., Tandem 600-1400 Lbs.	108	004000	H
49620	Roller, Vibratory, Tandem 3 - 6 Ton	240	006000	H
49621	Roller, Vib., 2.5-5 Ton, Dsl	108	003000	H
49623	Roller, Vibratory, 5-8 Ton, Diesel	180	006000	H
50406	Sandblast Unit (301 to 500 Lbs)	252	007500	H
50418	Sandblast Unit 6 Ton Trl Mtd	192	005000	H
50612	Saw, Concrete	120	001500	H
52280	Scooter, Motor, 3 Wheel	228	017000	H
52281	Scooter, Motor, 4 Wheel, Elec	228	017000	H
52282	Scooter, Motor, 4 Wheel	228	013000	H
52713	Seeder Hydro	120	004000	H
54406	Shovel Power 1/2 Cu Yd Trk Mtd	180	016000	H
54408	Shovel, Power, 1/2 Cu Yd	180	016000	H
54801	Sign, Pass, Sequential, Arrow 4'	144	005000	H
54802	Sign, Portable Bulb Matrix, Trl 4'	144	008000	H
54803	Sign, Portable Bulb Matrix, Skid	144	008000	H
54804	Sign, Pass, Elec Seq. Skd Mtd 3'	144	005000	H
54806	Sign, Velcro-Message, Trl Mtd	120	008000	H
54807	Sign, Velcro-Message, Skd Mtd	120	008000	H
54808	Sign, Work, Trailer Mounted	144	005000	H
54810	Sign, Flip Disc-Message, Trl Mtd	144	005000	H
54811	Sign, Flip Disc-Message, Skd Mtd	144	005000	H
54812	Sign, LED, CMS, Brick Matrix, Sola	144	010000	H
54813	Sign, Sequential, Solar, Trl Mtd	144	010000	H
54814	Sign, CMS, Led, Truck Mtd.	144	008000	H
54815	Sign, CMS, Hybrid, Truck Mtd.	144	008000	H

NEW OR INNOVATIVE EQUIPMENT IDEAS AND CONCEPTS

REPLACEMENT ANALYSIS (CA) (continued)

Maint. Class	Description	Age	Usage Mi/Hr	Usage Criteria
54816	Sign, CMS, LED, Trailer, MTD, SOL 144	010000		H
54820	Signal Unit, Portable, Pri, Trl Mtd	144	005000	H
54821	Signal Unit, Portable, Sec, Trl Mtd 144	005000		H
54823	Radio, Har, Trailer Mounted	120	006000	H
54824	Satellite Control Unit, Trlr Mtd.	120	006000	H
54830	Sign, Radar Speed Monitor, Trl. Mtd 120	006000		H
55180	Snow Vehicle, Passenger 108	002000		H
55300	Spray, 100 Gal, Skid Mounted	096	002500	H
55301	Spray, 150 Gal, Turbine, Skd Mtd	156	002500	H
55304	Spray, 200 Gal, Skid Mounted	144	002000	H
55306	Spray, 200 Gal, Trailer Mounted	144	002000	H
55308	Spray, 300 Gal, Skid Mounted	192	015000	H
55310	Spray, 300 Gal, Trailer Mounted	180	010500	H
55312	Spray, 400 Gal, Skid Mounted	168	011000	H
55314	Spray, 400 Gal, Trailer Mounted	156	012000	H
55315	Spray, 500 Gal, Skid Mounted	156	012000	H
55316	Spray, 500 Gal, Trailer Mounted	156	012000	H
55320	Spray, 1000 Gal, Trailer Mount	408	011000	H
55335	Spray, 2500 Gal, De-Ice, Skd Mtd	192	000000	H
55505	Screening Plant, Towable 168	002000		H
55513	Spreader, Chip, Self Propelled	168	002000	H
55514	Spreader, Asphalt, Box	192	003000	H
55522	Spreader, Hopper Type, 2 Cu Yd	240	013000	H
55525	Spreader, Hopper Type, 4 Cu Yd	240	013000	H
55528	Spreader, Hopper Type, 8 Cu Yd	240	013000	H
55530	Spreader, Hopper Type, 10 Cu Yd	240	013000	H
55531	Spreader, Shoulder	240	013000	H
56500	Scrubber Lane & Floor Rideable	108	002500	H
56501	Sweeper Turf	108	002500	H
56504	Sweeper, Rotary Towed Self-Pow Br	144	005000	H
56505	Sweeper, Rotary, Towed, Diesel	144	005000	H
56507	Sweeper, Rotary, Towed/Self Propld 144	005000		H
56702	Sweeper, Lot, 48 In	168	003000	H
56704	Sweeper, Lot, 54 In	168	004000	H
56808	Sweeper, Conv 3- 4 Cu Yd, Diesel	060	004000	H
56811	Sweeper, High Dump, 3 Cy, CNG	060	005000	H
56812	Sweeper, Street, Regenerative, Dsl 120	009000		B
59001	Excavator, 20 Ton	228	018000	H
59004	Tractor, Crawler, with Dozer, 75 HP 228	010000		H
59006	Tractor, Crawler, with Dozer, 105 HP	228	010000	H
59010	Tractor, Crawler, with Dozer, 165 HP	228	010000	H
59204	Tractor, Garden, with Loader	156	008000	H
59206	Tractor, Wheel, 20 HP, w/Rot Mower	156	008000	H
59209	Tractor, Wheel, 4000-4999 Lbs	156	008000	H
59210	Tractor, Wheel Hydro Dr 6000-7999 Lb	156	008000	H
59211	Tractor, w/Ldr &/or Flail Mower(s)	144	006500	H
59213	Tractor, Wheel, with Broom & Mower	144	006500	H
59214	Tractor, Wheel, Diesel	144	006500	H
59215	Tractor, Wheel w/Arm Mtd Mower	144	006500	H
59216	Tractor, Wheel, Dsl, w/Rear Mower 144	006500		H
59217	Tractor, Wheel, 75 HP, or Rear Mower	144	006500	H
59218	Tractor, Wheel, 120 HP, w/2 Mower 144	006500		H
59219	Tractor, Bi-Directional 105 HP	144	006500	H
59220	Tractor, Wheel w/Backhoe &/or Ld Att	216	009000	H
59222	Tractor, Wheel, with Boom Mtd Mower	132	004500	H
59224	Tractor, Wh, Dsl, Hyd Dr 8000-8999#	144	008000	H
59804	Traffic Line Remover	144	002500	H
60100	Trailer, Portable Chem Toilet	120	008000	H
60201	Trailer, Utility to 1 Ton	168	006000	H
60202	Trailer, Roller, 1 Ton	168	006000	H
60203	Trailer, Equipment, 1 Ton, Tilt	168	006000	H
60204	Trailer Incident Response 1 Ton	180	006000	H
60205	Trailer Equipment, 1-1/2 to 3 Ton	276	006000	H
60206	Trailer, Snow Vehicle	168	006000	H
60207	Trailer, Equipment, 4 to 7 Ton	276	007000	H

NEW OR INNOVATIVE EQUIPMENT IDEAS AND CONCEPTS

REPLACEMENT ANALYSIS (CA) (continued)

Maint. Class	Description	Age	Usage Mi/Hr	Usage Criteria
60208	Trailer, Roller, 6 Ton	264	008000	H
60209	Trailer, Equipment, 8 to 12 Ton	264	007000	H
60210	Trailer, Equipment 15 Ton	264	008000	H
60211	Trailer, Equipment, 13 to 20 Ton	264	008000	H
60212	Trailer, Roller Equipment	264	008000	H
60213	Trailer, Equipment, 21 to 30 Ton	264	008000	H
60214	Trailer, Equipment, 15 Ton Tilt	264	008000	H
60215	Trailer, Equipment to 40 Ton	264	008000	H
60216	Trailer, Equipment, 40-45 Ton	264	008000	H
60230	Trailer, Boat Carrier	240	008000	H
60231	Trailer, Bicycle Carrier	240	008000	H
60232	Trailer, Avalanche Control Unit	240	008000	H
60233	Trailer, Portable Scales	120	008000	H
60235	Trailer, Pile Test Beam	324	001000	H
60236	Trailer, Asphalt Tester	240	006000	H
60240	Trailer, Converter Dolly	324	004000	H
60245	Trailer, Drill Steel & Augers	264	008000	H
60246	Trailer, Barge, Pontoon	264	010000	H
60247	Trailer, Sign Carrier	324	004000	H
60248	Trailer, Pole	324	004000	H
60270	Trailer, Rear Dump, 10 Cu Yd	180	010000	H
60274	Trailer, Bottom Hopper, 20 Cu Yd	180	010000	H
60276	Trailer, Bottom Dump, 12 CY, 5th Whl	180	010000	H
60277	Trailer, Bottom Dump, 12 CY,P Hook	180	010000	H
60288	Trailer, Lube	240	008000	H
60806	Trailer, Office, 22'	228	000900	H
60810	Trailer, Office, 32'	228	000900	H
60813	Trailer, Office, 10' x 45'	228	000900	H
60814	Trailer, Office, 10' x 55'	228	000900	H
60815	Trailer, Mobile Classroom, 5th Wheel	180	012000	H
60816	Trailer, Personnel Showers	180	008000	H
61103	Trailer, Tank (400 Gal)	360	011000	H
61104	Trailer, Tank (500 - 750 Gal)	408	011000	H
61114	Trailer, Semi, Tank, (2000 Gal)	168	011000	H
61118	Trailer, Semi, Tank, Spray 2000 Gal 168	011000		H
61126	Trailer, Semi, Tank 3001 - 7000 Gal 168	011000		H
61128	Trailer, Semi, Emul-Heater 4000 Gal168	011000		H
61130	Trailer Van High Cube to 27 Ft	192	011000	H
61132	Trailer, Cargo, to 12 Ton	180	010000	H
61136	Trailer, Semi, Mudjack Pump	240	015000	H
61420	Trailer, Laboratory Testing	216	015000	H
61430	Trailer, Storage	216	015000	H
62504	Trenching Machine	120	001500	H
64001	Welder, Arc, Shop Use	156	002500	H
64002	Welder, Arc Portable	156	004500	H

For more information contact: John LaCamera (916) 445-1178

Submitted by: John LaCamera, Chief,  
Office of Fleet and Business Services  
California Department of Transportation





**5. PREVENTIVE MAINTENANCE**  
**a) QUALITY ASSURANCE (PA)**

**EQUIPMENT PREVENTIVE MAINTENANCE**  
**Quality Assurance**

The Pennsylvania Department of Transportation (PennDOT) restructured the Preventive Maintenance Quality Assurance (PM/QA) evaluation of its in-house repair facilities in 1988. Included in the new evaluation is the inspection of recently serviced equipment to verify that key items related to equipment reliability and safety have been performed correctly. Also included is inspection of the paperwork and procedures associated with maintaining the preventive maintenance program at each location.

The PM/QA evaluation awards points for paperwork and procedures that have been done correctly and deducts points for items found deficient during the equipment inspection. This process assigns a numerical score or value to each location's PM program, making it possible for each District to compare its maintenance facilities and address the problems in locations earning low scores.

The PM/QA evaluation items are reviewed each year by a cross-section of PennDOT equipment maintenance personnel and adjusted to reflect the changing needs of the Department. The revised form is then issued to the Districts for their information prior to beginning each year's PM/QA process.

In the five years this program has been in effect the Districts have reported significant improvements in equipment reliability and safety along with a decrease in major repairs linked to poor maintenance practices.

For more information contact: William Fenkner (717) 783-4812  
Eastern Regional Equipment Manager  
Email: wfenkner@state.pa.us

Submitted by: Richard Dolbin  
Equipment Operations, Section Manager  
Bureau Maintenance and Operations  
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17<sup>th</sup> St & Arsenal Blvd  
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Phone: (717) 787-2790

2006 Comment: The Quality Assurance Program is still used, and it is still a great management tool.

**6. WORK ZONE PROTECTION**

**a) Improved Worker Safety (CA)**

**Mobile Work zone Protection Device  
"Balsi Beam"  
Improved Worker Safety**

The California Department of Transportation has designed and is deploying for testing a new mobile, work zone protection device. The device is known as the "Balsi Beam" after a California Department of Transportation worker who lost a leg in a work zone accident.

The device is integrated into a portable trailer that can be transported on the California highways without requiring a permit. The device uses two telescopic, rotating, steel beams that, once deployed, are able to provide a 30 feet long zone shielded from moving traffic in adjacent lanes. The device can be used either on the shoulder or the median. A patent is pending.

For more information contact Lisa Kunzman, Chief, California Department of Transportation, Division of Equipment, (916) 227-9600.

Submitted by Kris Teague, Chief, Office of Engineering and Production, California Department of Transportation, Division of Equipment

**B. CONCEPTS**

**1. CONTRACTING OF VEHICLE REPAIR (TX)**

**CONTRACTING OF VEHICLE MAINTENANCE AND REPAIRS**

In September 1991 the Texas Department of Transportation (TxDOT) was mandated to contract not less than 25% of the total amount expended for repair and maintenance in a given fiscal year. This mandate was with the provisions that private entities could provide the necessary services in sufficient quantity and quality, and at less than 90% of the total cost for the department.

To facilitate cost effective analysis in comparing in-house costs to commercial quotes, an hourly "shop rate" was developed. This rate includes all elements of cost that would normally be quoted by commercial enterprises as their hourly shop rate, and is used for cost comparison purposes. Because of geographical (urban vs. rural) and economic factors across the state, an hourly shop rate is computed monthly for use by each of the (25) districts in making effective repair decisions. Emphasis is placed on performing cost analysis for each repair opportunity and making sound and consistent decisions as to repair in-house or contract out.

Private entities are used whenever the repair is more efficient and cost effective than when accomplished by state forces; when state facilities, personnel, or expertise is not available; or when emergency repairs are required and state forces are not available.

The department's contracting percent for vehicle repairs has risen from 8.7% in fiscal year 1991 to 37.8% in fiscal year 2002. While it is difficult to determine cost savings, contracting of vehicle repairs has resulted in increased fiscal responsibility; improved preventive maintenance practices; and allowed equipment managers to gain further insight into costs of fleet operations.

Monthly district and statewide summary reports are available to keep department management up to date with changes as to our mandate for contracting of vehicle maintenance and repairs. Beginning with fiscal year 2000, the contract percentage was amended to not less than 35% (previously 25%).

For more information contact: Karen Dennis

Equipment Systems Group  
(512) 374-5447  
Email - kdennis@dot.state.tx.us

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Submitted by:

Scott D. Buford  
General Services Division  
Texas Department of Transportation

## VI. CONFERENCES

### A. REGIONAL CONFERENCES

#### 1. WESTERN STATES EQUIPMENT MANAGERS CONFERENCE (09-2001)

##### Western States Equipment Managers Conference

In September, 2001, the California Department of Transportation sponsored the Western States Highway Equipment Managers Association Conference in San Diego, California. The eleven (11) states in attendance were:

Arizona	Idaho	New Mexico	Washington
California	Montana	Oregon	Wyoming
Colorado	Nevada	Utah	

The conference addresses current issues facing State Fleet including Environmental Emission Reductions, Western States Benchmarking, New Technologies, Maximizing Human Resources, Best Management Practices and Equipment Management Systems.

Presentations were provided by:

California ("Fleet Greening", New Technologies, Best Business Practices and Human Resource Maximization);

Arizona ("Fleet Greening" and Western States Benchmarking);

Nevada ("Fleet Greening" and Best Business Practices);

Idaho ("Fleet Greening", Best Business Practices and New Technologies);

Utah (Best Business Practices).

Round table discussions regarding the agenda topics provided interesting insights to solutions and planned enhancements to current processes involving decisions to refurbish or purchase, lease or purchase, pursue purchases of more environmentally friendly vehicles and mobile equipment standard specifications development for message signs, fleet vehicle color, striping delineation and lighting to name a few.

Caltrans mobile fleet displays of implemented new technologies, and environmentally friendly ("Greened") fleet as well as a tour of the San Diego Automotive Museum, including a lecture by the curator, were enjoyed by all.

The week of the conference included September 11, 2001. All participants and support personnel exhibited an extremely professional and compassionate attitude through the ordeal. All returned home safely after deciding to complete the conference.

Submitted by: John LaCamera, Chief  
Office of Fleet and Business Services  
Division of Equipment  
California Department of Transportation

## CONFERENCES

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### **2. MIDWESTERN STATES EQUIPMENT MANAGERS CONFERENCE (07-2005)**

#### Midwestern States Equipment Managers Conference

The Pennsylvania Department of Transportation hosted the Midwestern States Equipment Managers Conference on July 11-12, 2005. Fourteen states and two Canadian provinces were represented.

States and provinces represented:

Delaware	Manitoba	New York	Saskatchewan
Iowa	Michigan	North Dakota	South Dakota
Kansas	Minnesota	Ohio	Virginia
Kentucky	Missouri	Pennsylvania	Wisconsin

Conference attendees submitted agenda topics and offered ideas for roundtable discussion. The following items were covered:

- Truck Lighting Issues
- Cell Phone Issues
- Panic Buttons for Mechanics in Case of Emergencies
- Working Alone Policies
- Airbag Switches Similar to ONSTAR
- Hazmat and CDL Certifications
- Dozers
- Guardrail Mowers & Polecat Mowers
- Tractors
- Recap Tire Usage
- Fleet Parts Catalog
- Parts and Service Manuals
- Mechanic Forum - PennDot Will Look Into This
- Strategic Sourcing
- Fuel Catalyst
- Pre-Wet Application Rates
- Life-Cycle Cost Analysis
- Transverse Crack Filling Machine
- Component Lube Sheets
- In-House Warranty

### 3. SOUTHEASTERN STATES EQUIPMENT MANAGERS CONFERENCE

2005 SSEMC Minutes – July 17-21, 2005  
Natchez, Mississippi

➤ **Delegates in attendance:**

Deborah Clark	Alabama
Ron Pruitt	Alabama
Ken Parker	Arkansas
Curt Cole	Delaware
Jim Minner	Delaware
Ken Kimsey	Florida
Mike Malcom	Georgia
Ed Yawn	Georgia
Rick Durham	Kentucky
Bill Schear	Louisiana
Ferdinand Theriot	Louisiana
Roy Patrick	Mississippi
Julie Ethridge	Mississippi
Reed McAtee	Mississippi
Linda Martin	Mississippi
Bobbie Meadows	Mississippi
Latrael Mayo	Mississippi
Larry Ramage	Mississippi
Billy Hall	Mississippi
Richard Kappenman	Mississippi
Keith Pierce	Mississippi
Gerald Glenn	Mississippi
Tim Morgan	Mississippi
Ashton Rembert	Mississippi
Paul Smith	Mississippi
Henry Morgan	Mississippi
Eddie Robinson	Mississippi
Drew Harbinson	North Carolina
Bruce Thompson	North Carolina
Rick Dolbin	Pennsylvania
James Brooks, Jr.	South Carolina
John White	South Carolina
Barry Rawls	Tennessee
Eddie Evans	Tennessee
Don Lewis	Texas
Dick Bonistalli	Virginia
Blair Kinker	Virginia
(Not in Attendance)	West Virginia

**Welcome Comments:** Larry L. “Butch” Brown, Executive Director of the Mississippi Department of Transportation, The Honorable Philip Curtis West, Mayor of Natchez, Mississippi, and Roy Patrick, Director of Asset Management, welcomed the attendees.

Topics discussed at the meeting were as follows:

## CONFERENCES

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- **NCHRP Project 13-02 FY 2004**  
Dick Bonistalli – VDOT
  
- **Equipment Cost vs. Usage**  
Rick Dolbin – PennDOT
  
- **Disposal of Surplus Equipment**  
Deborah Clark, Ron Pruitt – ALDOT
  
- **Creative Financing for Equipment Purchasing**  
Roy Patrick, Julie Ethridge – MDOT
  
- **An Update on the Managed Competition Effort in Virginia**  
Dick Bonistalli – VDOT
  
- **Privatization Initiatives in Virginia Effecting Equipment/Vehicle Repair**  
Blair Kinker – VDOT
  
- **Compliance with Clean Air Act & EPACT -- Who's Doing What?**  
Drew Harbinson – NCDOT
  
- **Reclaiming of Right-of-Way Along Limited Access Routes**  
Ed Yawn, Mike Malcom