



Highway Maintenance Manual
Chapter 02 Administration
Section 25 Cost Invoicing
Subject 50 Classified Equipment Rates

Bureau of Highway Maintenance

Effective January 2025

Standard Equipment Pictures

Class	Description	Est. Life	Rate	Type
AIR COMPRESSORS				
	Rates are for the compressor and pneumatic tools used with the compressor, except breakers, jackhammers (class 929), and wagon drills. Rates do not include equipment used to transport the compressor.			
402	125 through 209 CFM	10 years	20.94	Hr
403	210 CFM and over	10 years	26.58	Hr
BITUMINOUS EQUIPMENT				
	Note: Paver rates include the cost of automatic controls			
701	Bitumen kettle, 1-2 bbls, inclusive, includes fuel	8 years	32.90	Hr
702	Bitumen kettle, 3-5 bbls, inclusive, includes fuel	8 years	28.40	Hr
707	Tank car heater (except wood or coal fired)	12 years	27.54	Hr
708	Trailer style distributor, including tank and equipment, but not the truck	12 years	53.32	Hr
709	Patch material heater and mixer (surge bin), trailer or truck mounted	12 years	19.04	Hr
710	Heating kettle, less than 300 gallons	8 years	55.26	Hr
711	Heating kettle, 300 gallons or more	8 years	61.18	Hr
712	Self-propelled paver and finishing machine	8 years	1.96	Ton
713	Portable storage tank for oil/emulsion with heating unit; charge only for hours of heating or pumping	12 years	55.66	Hr
714	Portable supply or storage tank for oil/emulsion	12 years	693.02	Day
716	Distributor, including truck, rear drive, 23,000 through 49,999 lbs	7 years	93.78	Hr
717	Distributor, including truck, tandem rear drive, 23,000 through 49,999 lbs	9 years	296.54	Hr
718	Distributor, including truck, tandem rear drive, 50,000 lbs and over	9 years	130.60	Hr
719	Pavement profiler, 2' and under, not self-propelled	10 years	61.68	Hr
720	Pavement profiler, self-propelled or not self-propelled over 2'	8 years	94.30	Hr
GENERATORS, PORTABLE ELECTRIC				
805	3,001 watt output through 10,000 watt output	12 years	39.70	Hr
806	10,001 watt output and over	12 years	72.58	Hr
GRADERS, MOTOR				
	Note: The cost of automatic controls (i.e. lasers) is <u>not</u> included in the grader rates. A separate add-on rate for lasers is identified as class 315.			
	Classifications are in accordance with rated net flywheel horsepower (hp), exclusive of attachments. Horsepower shall be in accordance with Society of Automotive Engineers (S.A.E.) standard 1349.			
302	Rear drive grader, less than 85 hp	10 years	40.80	Hr
305	Rear drive grader, 85 hp through 149 hp	10 years	76.56	Hr
307	Rear drive grader, 150 hp and greater	10 years	79.94	Hr
308	All wheel drive grader, any hp	10 years	93.80	Hr
315	Non-integrated, Slope control, used in grader	10 years	23.12	Hr
GRADERS, TOW TYPE ATTACHMENT				
323	Any number of blades (Alternate Photo)	10 years	12.84	Hr
MAINTAINER ATTACHMENTS				
392	Hydraulically operated return blade	10 years	8.02	Hr
MOWERS AND MOWER ATTACHMENTS				
410	Motorized lawnmower, less than 60" cut	5 years	19.80	Hr
411	Motorized lawnmower, 60" cut or more	5 years	31.24	Hr
412	Disc bine attachment	10 years	39.84	Hr
413	Single pan section, rotary or flail attachment	10 years	19.20	Hr
414	Sickle bar attachment	10 years	23.24	Hr
415	2 pan section (single unit), rotary or flail attachment	10 years	29.48	Hr
416	3 pan section (single unit), rotary or flail attachment	10 years	30.50	Hr
COMPACTORS				
531	Tow-type, including sheepsfoot, vibrating and non-vibrating (Alternate Photo) (Alternate Photo)	10 years	18.48	Hr
532	Self-propelled, non-vibratory	10 years	54.24	Hr
533	Self-propelled, vibratory, 1 through 2 tons	8 years	41.12	Hr
534	Self-propelled, vibratory, over 2 tons	8 years	48.78	Hr
SCRAPERS AND SCRAPER ATTACHMENTS				
	Scrapers are rated as a unit with the tractor used exclusively for scraper operation. Capacity is based on the manufacturer's truck capacity without sideboards.			
546	Scraper, single engine	10 years	185.84	Hr
547	Scraper, twin-engine	10 years	139.20	Hr

<u>Class</u>	<u>Description</u>	<u>Est. Life</u>	<u>Rate</u>	<u>Type</u>
	SHOULDERING MACHINES			
450	Shoulder reclaimer (Alternate Photo)	10 years	20.40	Hr
451	Shoulder machine attachment	10 years	97.94	Hr
455	Self-propelled, (road widener)	10 years	159.32	Hr
	EXCAVATORS			
	Complete units classified by capacity, including the truck or tractor. Capacity is based on manufacturer's rating.			
552	Truck mounted, including hydraulic cable operated combination backhoe units	10 years	57.56	Hr
555	Track-type backhoe, through 99 hp	10 years	58.78	Hr
557	Self contained excavator, rubber tire	10 years	67.52	Hr
558	Shovel, track-type (100 through 149 hp)	10 years	59.12	Hr
559	Shovel, track-type (150 hp and over)	10 years	77.70	Hr
	SNOW PLOWS, MOTOR GRADER AND TRACTOR ATTACHMENTS			
612	Widening wing	10 years	38.06	Hr
	SNOW PLOWS, ATTACHMENTS			
632	V-shape	10 years	40.38	Hr
633	Power reversible, truck mounted (Alternate Photo)	10 years	16.10	Hr
634	One-way (including motor grader or tractor attachments)	10 years	13.48	Hr
635	Widening wing	10 years	15.46	Hr
636	Underbody, fixed moldboard	10 years	17.26	Hr
637	Underbody, power reversible moldboard	10 years	23.80	Hr
	SPREADER ATTACHMENTS			
	These attachments are for applying sand, chips, or deicers. Units purchased after 1/1/86 shall be capable of calibration within 10% of the recommended sodium chloride application rate (100 to 300 lbs./lane mile) at speeds of 15 to 35 miles per hour. The term "computer controlled" means that the controller receives a vehicle speed signal and a spreader feed signal (i.e., closed loop is terminology also used within the industry) and can be calibrated in pounds and liquid per mile. These controllers can be calibrated to apply the exact amount of granular and liquid material per mile at any speed.			
424	Tailgate mounted, non-computerized	8 years	11.88	Hr
425	Hopper type truck body with conveyor feeding material to power driven spinner type spreader, non-computerized (without pre-wetting system)	8 years	26.70	Hr
426	Tailgate mounted, computer controlled (without pre-wetting system)	8 years	15.80	Hr
427	Hopper type truck body with conveyor feeding material to power driven spinner type spreader, computerized (without pre-wetting system)	8 years	33.20	Hr
428	Zero-velocity type spreader, includes 'pre-wetting' type system (may include anti-icing spray bar)	8 years	30.44	Hr
638	Spray bar applicator/Brine (pre-wet) tank(s), nozzles, pumps, hardware-tank size 0 gallons to 500 gallons for plow trucks	8 years	8.42	Hr
639	Spray bar applicator/Brine (pre-wet) tank(s), nozzles, pumps, hardware-tank size 501 gallons to 1,000 gallons for plow trucks	8 years	18.44	Hr
640	Spray bar applicator/Brine (pre-wet) tank(s), nozzles, pumps, hardware-tank size 1,001 gallons and greater for plow trucks	8 years	31.86	Hr
	SPREADERS, SELF-PROPELLED CHIP			
440	Single width with mechanical extension	10 years	241.52	Hr
	SWEEPERS AND ATTACHMENTS			
431	Broom, power take-off or hydraulic pump driven, attached to separate vehicle class	10 years	45.84	Hr
432	Broom, self-powered, pulled by separate vehicle	10 years	43.96	Hr
433	Street sweeper, mechanical debris collection system, self-propelled	10 years	136.94	Hr
434	Broom, self powered, self-propelled	10 years	63.66	Hr
435	Vacuum debris collection system, with or without sweeper, self-propelled	11 years	103.76	Hr
	TRACTORS/SKID STEERS/END LOADERS/DOZERS			
	These units shall be rated by net flywheel SAE horsepower (hp). Net horsepower shall be in accordance with Society of Automotive Engineers (SAE) standard 1349, and shall not exceed that stated in the manufacturer's national advertising.			
202	Wheel-type, 12 through 34 hp	10 years	30.86	Hr
203	Wheel-type, 35 through 49 hp	10 years	35.12	Hr
204	Wheel-type, 50 through 64 hp	10 years	44.14	Hr
205	Wheel-type, 65 through 79 hp	10 years	36.08	Hr
206	Wheel-type, 80 through 99 hp	10 years	38.32	Hr
207	Wheel-type, 100 through 149 hp	10 years	57.64	Hr
208	Wheel-type, 150 through 214 hp	10 years	75.92	Hr
209	Wheel-type, 215 hp and more	10 years	90.50	Hr
215	Track-type dozer, through 79 hp	10 years	59.84	Hr
216	Track-type dozer, 80 through 99 hp	10 years	56.74	Hr
217	Track-type dozer, 100 through 149 hp	10 years	68.58	Hr
218	Track-type dozer, 150 through 214 hp	10 years	75.72	Hr
219	Track-type dozer, 215 hp and more	10 years	122.58	Hr

<u>Class</u>	<u>Description</u>	<u>Est. Life</u>	<u>Rate</u>	<u>Type</u>
221	Agricultural type tractor/skid steer, 4- wheel drive units, 20 through 64 hp	10 years	41.58	Hr
222	Agricultural type tractor/skid steer, 4- wheel drive units, 65 through 79 hp	10 years	38.54	Hr
223	Agricultural type tractor/skid steer, 4- wheel drive units, 80 through 99 hp	10 years	42.34	Hr
224	Agricultural type tractor/skid steer, 4- wheel drive units, 100 up to 175 hp	10 years	51.02	Hr
250	Backhoe/loader/tractor, (80 hp and over)	10 years	81.58	Hr
TRAILERS				
Classification shall be based on the manufacturer's rated capacity for the specific model trailer				
490	Less than 1 ton (use manufacturer's rated capacity)	10 years	7.88	Hr
491	1 through 4 tons (use manufacturer's rated capacity)	10 years	16.18	Hr
493	5 through 29 tons (use manufacturer's rated capacity)	10 years	24.56	Hr
496	30 tons and over (use manufacturer's rated capacity)	10 years	55.48	Hr
TRUCKS				
Classifications shall be based on the manufacturer's gross vehicle weight (GVW) rating assigned to the specific model, including all component equipment recommended or required by the manufacturer, as listed in the current national advertising and specifications. No consideration shall be given to any GVW that may be assigned for a specific purpose, preferred service, limited area, or that is not included in the national advertising for that model. If optional GVW's or a range of GVW's are given without identifying equipment necessary to place the unit within the range, the average of the range shall be used.				
The washing of trucks performing winter activities shall be charged to the job using activity code 072 in accordance with the truck washing parameters identified in HMM 02-25-01, Activity Codes. All other (non-winter) truck washing shall be charged to the truck unit.				
101	Rear drive or 4wd, 15,000 lbs and less	6 years	16.48	Hr
103	Rear drive or 4wd, 15,001 through 17,999 lbs	6 years	23.46	Hr
104	Rear drive or 4wd, 18,000 through 22,999 lbs	6 years	29.12	Hr
106	Rear drive or 4wd, 23,000 lbs through 50,000 lbs	10 years	69.40	Hr
112	Rear drive, 4wd or 6wd, more than 50,000 lbs (Alternate Photo)	15 years	83.50	Hr
117	Tandem rear drive through 49,999 lbs	9 years	55.20	Hr
118	Tandem rear drive, 50,000 lbs and over	9 years	93.30	Hr
1118	Tandem rear drive, 50,000 lbs and over, with tri-axes	9 years	81.30	Hr
1128	Tandem rear drive, 50,000 lbs and over, with quad-axes	9 years	65.58	Hr
VEHICLES				
114	Automobiles	100,000mi	1.40	Mi
115	Commissioner Vehicle (Administration Account)	100,000mi		Set Rate Locally
119	Vans and SUV's	5 years	17.04	Hr
120	Patrol superintendent vehicles	100,000mi	0.70	Mi
MISCELLANEOUS EQUIPMENT				
901	Backhoe attachment/Grapple (Alternate Photo)	10 years	18.74	Hr
902	Brush chipper	8 years	40.94	Hr
906	Mechanical tamper, self-powered	8 years	42.56	Hr
907	Ripper attachments for graders or tractors	10 years	140.18	Hr
908	Surge bin	15 years	60.16	Hr
910	Arrow board, self contained on trailer or truck mounted	10 years	4.16	Hr
911	Conveyor	12 years	18.70	Hr
912	Mudjack	10 years	130.62	Hr
915	Post hole digger (auger), attachment	10 years	33.44	Hr
918	Screening plant	10 years	0.68	Ton
919	Spring tooth or disc harrow attachment-----	10 years	24.40	Hr
923	Water pump, centrifugal (with or without trailer) (Alternate Photo)	5 years	44.68	Hr
924	Water pump, diaphragm	5 years	24.06	Hr
925	Sprayer, multi-purpose stand alone, liquid distribution system, including tank, spray bar, nozzles, to be used for spot weed spraying or dust control,	10 years	17.08	Hr
926	Water tanker or portable tank with pump and spray bars, not for anti-icing, exclusive of motive equipment (no charge may be made while in transit)	8 Years	34.52	Hr
930	Hydro-seeder with water supply	10 years	59.38	Hr
931	Mulch spreader with water supply	10 years	72.54	Hr
932	Brush cutter, (backhoe mounted on boom) (Alternate Photo)	5 years	33.98	Hr
933	Shoulder drag	10 years	11.16	Hr
934	Concrete saw, through 9 hp, including blades	3 years	77.88	Hr
935	Concrete saw, 10 through 24 hp, including blades	5 years	52.30	Hr
936	Concrete saw, 25 hp and over, includes blades	10 years	91.98	Hr
937	Hot air lance	5 years	8.46	Hr
938	Pavement router/joint cleaner/roto-cutter, asphalt, including bits	5 years	56.62	Hr
939	Field office, Class A	15 years	91.58	Day
940	Brush cutter (tractor mounted)	3 years	22.84	Hr
941	Bump burner, infrared or open flame grader attach	12 years	221.38	Hr

<u>Class</u>	<u>Description</u>	<u>Est. Life</u>	<u>Rate</u>	<u>Type</u>
942	Post pusher/driver (wood or metal)	12 years	28.18	Hr
946	Trailer, sign	10 years	21.74	Day
947	Portable pressure washer (heated or not heated) - attached wheels, capacity thru 20 hp	10 years	59.72	Hr
948	Aerial platform (self-propelled or trailer mounted / not mounted on a truck)	12 years	76.36	Hr
949	Attenuator (with or without arrow board)	10 years	14.48	Hr
950	Centerliner, mounted on dual axle truck	10 years	138.90	Hr
951	Centerliner, mounted on single axle truck	12 years	120.64	Hr
952	Liquid dust control, applicator only	8 years	0.14	Gal
953	Boom for mowers, attached to tractor	10 years	21.18	Hr
954	Sign truck, any combination of storage cabinets, auger and aerial platform (primarily used for installing signs)	10 years	37.08	Hr
955	Tailgate conveyor or spreader box	12 years	34.32	Hr
956	Hydraulic drill	8 years	40.56	Hr
958	Message board (programmable) maximum charge of 12 hours in a 24 hr period	10 years	6.24	Hr
960	Portable pressure washer (heated or not heated) - attached wheels, capacity 21 hp and greater	10 years	77.76	Hr
970	Boom utility truck, any combination of storage cabinets, auger and man bucket	10 years	62.64	Hr
975	Welder, electric, 0 - 300 amp capacity (does not include cost of welding rod)	10 years	13.20	Hr
976	Welder, electric, 301 amp capacity and up (does not include cost of welding	10 years	14.44	Hr