



Production Rate Table

[See FDM 19-10-30 for additional guidance.](#)

Item	Unit	Expected Production Range ⁽¹⁾
Clearing and Grubbing	STA/DAY	3 - 9, 6 typ.
Deck Removal (Full or Partial)	SF/DAY	510 - 2,000, 940 typ.
Remove Pavement (concrete)	SY/DAY	410 - 2,500, 1,000 typ.
Milling Asphalt (thin, 0 to 2 inches)	SY/DAY	8,500 - 25,000, 17,000 typ.
Milling Asphalt (thick, 2 inches or more)	SY/DAY	8,000 - 20,000, 14,000 typ.
Excavation (Truck)	CY/DAY	250 - 1,300, 600 typ.
Excavation (Scraper)	CY/DAY	1,000 - 8,000, 4,500 typ.
Excavation (Articulated Truck)	CY/DAY	1,900 - 3,800, 3,000 typ.
Shallow Excavation (Shoulders & Ditches)	CY/DAY	200 - 940, 430 typ.
Rock Excavation	CY/DAY	180 - 1,100, 730 typ.
Marsh Excavation	CY/DAY	470 - 2,000, 1,100 typ.
Excavation Below Subgrade	CY/DAY	200 - 940, 410 typ.
Cofferdam for Foundation	SF/DAY	230 - 750, 350 typ.
Base Course (Shoulders)	TON/DAY	130 - 990, 390 typ.
Base Course (Roadway)	TON/DAY	350 - 1,300, 700 typ.
Breaker Run	TON/DAY	730 - 2,800, 1,600 typ.
Shattering Pavement	SY/DAY	5,000 - 15,000
Concrete Pavement	SY/DAY	850 - 4,000, 2,300 typ.
Grinding	SY/DAY	1,500 - 3,600, 2,100 typ.
HMA Pavement	TONS/DAY	700 - 1,800, 1,300 typ.
Asphalt Pavement (hand placement)	TONS/DAY	120 - 360, 200 typ.
Rumble Strips (Shoulder)	LF/DAY	24,000 - 60,000, 35,000 typ.
Rumble Strips (centerline)	LF/DAY	21,000 - 46,000, 36,000 typ.

1. The expected production ranges in the table is the remaining range of production rates after 25% of the highest values and 25% of the lowest values have been removed. The typical production rate is the median.



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Concrete Masonry, Bridges (Foundation Substructure)	CY/DAY	13 - 39, 20 typ.
Parapet	LF/DAY	45 - 120, 60 typ.
Deck Placement (Girder Bridge)	SF/DAY	360 - 4,900, 1,100 typ.
Deck Placement (Slab Bridge)	SF/DAY	270 - 1,400, 700 typ.
Precast Concrete Girder Erection	EACH/DAY	5 - 8, 6 typ.
Concrete Masonry, Culverts	CY/DAY	5 - 15
Structural Steel Beams	EACH/DAY	6 - 12
Bridge Overlay	SY/DAY	39 - 860, 230 typ.
Temporary Sheet Piling	SF/DAY	220 - 690, 340 typ.
Culvert Pipe	LF/DAY	65 - 130, 98 typ.
Retaining Walls (Mechanically Stabilized)	SF/DAY	170 - 640, 250 typ.
Driving Piles (All Types)	LF/DAY	190 - 400, 280 typ.
Curb and Gutter	LF/DAY	330 - 1,500, 800 typ.
Sidewalks	SF/DAY	880 - 3,000, 1,700 typ.
Concrete Barrier	LF/DAY	220 - 1,300, 500 typ.
Riprap	SY/DAY	42 - 150, 86 typ.
Manholes and Catch Basins	EACH/DAY	2 - 4, 2 typ.
Pipe Underdrains	LF/DAY	100 - 520, 200 typ.
Steel Plate Guardrail	LF/DAY	240 - 610, 420 typ.
Chain Link Fence	LF/DAY	110 - 430, 200 typ.
Topsoil Placement	CY/DAY	120 - 700, 280 typ.
Seeding SY	SY/DAY	1,500 - 5,800, 3,900 typ.
Sodding	SY/DAY	360 - 1,700, 1,100 typ.
Grooved Epoxy Marking (Grinding Only)	LF/DAY	23,000 - 72,000, 45,000 typ.
Grooved Epoxy Marking (Marking Only)	LF/DAY	27,000 - 85,000, 56,000 typ.

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