Section D

REFERENCE TABLES

ESTIMATING DAILY EARTH VOLUMES WITH LOAD COUNTS

Page A-8 of this Section presents a concept called "Progress Documentation." Simply stated, it is necessary to provide documented entries in the Quantity Book as work progresses, even though final measurements will usually be provided after the pay item is completed. Therefore, with many pay items, the progress documentation may be based upon nothing more than a recorded estimate of work done.

This paper deals with a method of estimating Excavation pay items.

Enclosed is a table of hauling volumes of most of all the motor scrapers and hauling units presently being used in the State. If a piece of equipment not in Section D is being used and the Contractor is estimating earth volumes by load count, have the Contractor provide a specification sheet for the piece(s) of equipment. The specification sheet will provide struck capacities. The following example indicates the procedure, which may be used in estimating earth volumes utilizing the enclosed table.

1. Obtain the daily load count. (Ask the push-Cat operator or the dump spotter. Spot-check occasionally.)

2. From the following table, select the struck capacity for the model being used.

3. Multiply the product of the load count and struck capacity by 80%. (This factor may vary somewhat with various materials and loading procedures.)

   Example: 70 loads hauled by a CAT 621.

   The days volume = 70 loads x 14 cy x 80% = 784 cy
   784 cy x 0.764555 m^3/cy = 600 m^3

4. It is suggested that the above information and calculations be recorded on the Inspector's Daily Report, Form BC 628. Example, page F-28.

Model	# Axles	Engine Make	Engine Model	Drive h.p.	Shift Type	Type	Weight	Type	Standard Hauling Unit Cubic Yards Struck	Heaped	Years Built From	To
Allis-Chalmers Manufacturing Company												
				rated								
TS-160	2	AC	TDS516	155	DD	MS	28,500	Scraper	7	9.5		1961
								R. dump	7.7	12		
TS-160	2	AC	TDS516	155	DD	MS	28,500	Scraper	8.5	11		1962
								R. dump	7.7	12		
TS-160	2	AC	11000	175	DD	MS	28,800	Scraper	8.5	11		1963
								R. dump	7.7	12		
TS-200	2	AC	TD779	176	DD	MS	38,560	Scraper	10	13		1956
TS-260	2	AC	TD844	200	DD	MS	39,600	Scraper	11	14		1958
								R. dump	11	15		
TS-260	2	AC	16000	230	DD	MS	44,800	Scraper	12.5	17		1962
								R. dump	11	15		
TS-260	2	AC	15000	300	TQ	PS	45,300	Scraper	14	19		1963
								R. dump	11	15		
260 DD	2	AC	19000	296	DD	MS	46,800	Scraper	15	20		1967
		AC	19000	296	DD	MS	48,660	R. dump	22	26		1968
260	2	AC	19000	296	TQ	PS	48,500	Scraper	15	20		1968
		AC	19000	296	TQ	PS	50,360	R. dump	22	26		1968
260A	2	AC	21000	300*	TQ	PS	51,200	Scraper	15	20		Current
								R. dump	22	26		Current
								B. dump	18	22		Current
260EA	2	AC	21000	300*	TQ	PS	59,300	E. Scraper		23		Current
260E	2	AC	19000	294	TQ	PS	58,000	Elevating				
								Scraper		23		1968
TS-300	2	Buda	6DAS-844	280	DD	MS		Scraper	14	18		1955
TS-360	2	AC	TDS844	280	DD	MS	49,000	Scraper	15	20		1962
TS-360(H)	2	AC	21000	340	DD	MS	64,000	Scraper	22.3	30		1963
460 B	2	AC	25000	353	TQ	PS	78,500	Scraper	24	33		1968
460B	2	AC	25000	353	TQ	PS	72,900	R. dump	30	35		1968
460C	2	GMC	12V-71N	422*	TQ	PS	86,200	Scraper	24	33		Current
								R. dump	30	35		Current
								B. dump	27	32		Current
562 C	2	AC (2)	25000	706	TQ	PS	122,750	Scraper	33	44		1967
Caterpillar Tractor Company												
DW10	3	Cat	D318	90	DD	MS	35,450	Scraper	7	9	1941	1946
							23,040	Wagon	8.9	14		
DW10	3	Cat	D318	100	DD	MS	35,240	Scraper	7	9	1946	1947
							28,237	Wagon	8.9	14		
DW10	3	Cat	D318	115	DD	MS	33,365	Scraper	8.7	10	1947	1954
							28,237	Wagon	8.9	14		
DW15	3	Cat	D326	150	DD	MS	41,430	Scraper	10	12.5	1954	1955
								Wagon	11.5	17.5		
DW15C	3	Cat	D326	164	DD	MS	42,370	Scraper	10	12.5	1955	1957
							31,965	Wagon	11.5	17.5		
DW15E	3	Cat	D326	166	DD	MS	42,940	Scraper	13	18	1957	1960
DW15F	3	Cat	D326	166	DD	MS	42,940	Scraper	13	18	1960	1961
								Wagon	14.1	15.6		
DW20	3	Cat	D337F	206	DD	MS	50,900	Scraper	14	22	1951	1955
							40,830	Wagon	18	23		
DW20E	3	Cat	D337F	230	DD	MS	57,400	Scraper	18	25	1955	1958
							48,060	Wagon	20	30		
DW20F	3	Cat	D337F	265	DD	MS	59,240	Scraper	18	25	1958	1959
								Wagon	20.5	22.5		
DW20G	3	Cat	D337F	300	DD	MS	57,720	Scraper	19.5	27	1959	1960
								Scraper	24	34		
								Wagon	20.5	22.5		
DW21	2	Cat	D337F	206	DD	MS	54,650	Scraper	15	20	1951	1955
DW21C	2	Cat	D337F	230	DD	MS	58,670	Scraper	18	25	1955	1958
DW21D	2	Cat	D337F	265	DD	MS	58,010	Scraper	18	25	1958	1959
DW21G	2	Cat	D337F	300	DD	MS	59,980	Scraper	19.5	27	1959	1960
								(Elevating				
613	2	Cat	3160	150	TQ	PS	27,200	Scraper)		11	1969	Current
619	2	Cat	D326	200	DD	MS	47,150	Scraper	14	18	1959	1960
619C	2	Cat	D340	250	DD	MS	47,500	Scraper	14	18	1960	1966
621	2	Cat	D336	300	TQ	PS	52,000	Scraper	14	20	1966	Current
627	2	Cat	D333/D333	225/225	TQ	PS	63,500	Scraper	14	20	1968	Current
630A	3	Cat	D343	335	TD	PS	69,300	Scraper	21	28	1960	1961
								Scraper	24	29		
630A-482	3	Cat	D343	335	TD	PS	79,000	Scraper	27	35	1960	1961
								Wagon	32	38	1960	1961
630B	3	Cat	D343A	400	TD	PS	78,800	Scraper	21	30	1961	1969

Model	# Axles	Engine Make	Engine Model	Drive h.p.	Shift Type	Type	Weight	Type	Standard Hauling Unit Cubic Yards Struck	Heaped	Years Built From	To
631A	2	Cat	D343A	335	TD	PS	66,700	Scraper	21	28	1960	1961
631B	2	Cat	D343	360	TD	PS	80,300	Scraper	21	30	1962	Current
631C	2	Cat	D343	400	TQ	PS	75,400	Scraper	21	30	1970	Current
632	3	Cat	D343	360	TD	PS	86,910	Scraper	28	38	1961	1964
633	2	Cat	D343	360	TD	PS		Elevating Scraper		32	1970	Current
633C	2	Cat	D343	415	TQ	PS	86,500	Elevating Scraper		32	1970	Current
637	2	Cat	D343/ D333	415/ 225	TQ	PS	86,900	Scraper	21	30	1970	Current
641	2	Cat	D346	500	TD	PS	99,500	Scraper	28	38	1962	Current
641B	2	Cat	D346	550	TQ	PS	102,500	Scraper	28	38	1970	Current
650	3	Cat	D346	500	TD	PS	120,400	Scraper	32	44	1962	Current
650B	3	Cat	D346	550	TQ	PS	101,700	Scraper	32	44	1970	Current
651	2	Cat	D346	500	TD	PS	108,700	Scraper	32	44	1962	Current
651B	2	Cat	D346	550	TQ	PS	115,700	Scraper	32	44	1970	Current
657	2	Cat	D346/ 343A	500/ 360	TD	PS	128,900	Scraper	32	44	1962	Current
657B	2	Cat	D346/D343	550/400	TQ	PS	131,800	Scraper	32	44	1970	Current
660	3	Cat	S346	500	TD	PS	117,200	Scraper	40	54	1962	1970
					TD	PS	123,500	Wagon	55	64	1965	1970
660B	3	Cat	D346	550	TQ	PS	110,300	Scraper	40	54	1970	Current
666	3	Cat	D346/ D343A	500/ 400	TD	PS	136,600	Scraper	40	54	1962	Current
666B	3	Cat	D346/ D343	550/ 400	TQ	PS	130,800	Scraper	40	54	1970	Current
J619	2	Cat	D340	250	TD	PS	60,390	(Elevating (Scraper		20	1964	1966
J621	2	Cat	D336	300	TQ	PS	65,000	(Elevating (Scraper		21.5	1966	Current
Clark Equipment Company												
110	2	Cum	C-175-C	162	TQ	PS	31,200	Scraper	8	10.5		1961
110	2	Cum	C-175-C	162	TQ	PS	34,850	Scraper	9.6	12.5	1960	1962
110	2	Cum	C-175-Cl	162	TQ	PS	34,850	Scraper	10.4	13.5	1958	1965
							34,580	Wagon	8.3	10	1958	1965
110	2	GM	6V-53	170	TQ	PS	34,850	Scraper	10.4	13.5	1962	1965
							34,580	Wagon	8.3	10	1962	1965
110-H	2	GM	4-71N	160	TQ	PS	33,300	(Elevating (Scraper		11	1969	Current
110H-T	2	GM	4-71N	320	TQ	PS	52,062	(Elevating (Scraper		16	1970	Current
110-12	2	GM	6V-53N	178	TQ	PS	37,850	(Elevating (Scraper		12	1965	1968
110-14	2	GM	6V-71N	288	TQ	PS	42,500	(Elevating (Scraper		14	1967	Current
210	2	Cum	NTO-6-C	262	TQ	PS	44,000	Scraper	12.7	18		
210	2	Cum	NTO-6-C	262	TQ	PS	45,900	Scraper	13.5	19		1961
210	2	Cum	NTO-6-C	262	TQ	PS	48,590	Scraper	14	19	1960	1962
210	2	Cum	NTO-6-Cl	262	TQ	PS	49,600	Scraper	15	20	1957	Current
							51,925	Wagon	16	20	1959	Current
210-Self-Loading	2	GM	8V-71	290	TQ	PS	50,725	Scraper	15	20	1964	1967
210	2	GM	8V-71	290	TQ	PS	49,600	Scraper	15	20	1961	Current
							51,925	Wagon	16	20	1961	Current
210-H	2	Cum		335	TQ	PS		(Elevating (Scraper		23	1967	Current
310	2	Cum	NFT-6-Bl	375	TQ	PS	70,000	Scraper	20	27	1957	1959
310	2	GM	12V-71	420	TQ	PS	76,300	Scraper	21.6	29	1959	1965
310(III)	2	GM	12V-71N	475	TQ	PS	81,800	Scraper	24.4	32	1965	Current
310-H	2	GM	12V-71N	475	TQ	PS	92,000	(Elevating (Scraper		31	1967	Current
Curtiss Wright Construction Machinery												
				net								
CW-27	2	GM	4055C	143	DD	MS	32,500	Scraper	7	10	1958	1961
CW-215	2	Cum	HRS-6	240	DD	MS	54,000	Scraper	15	21	1958	1961
CW-220	2	GM	6-110T	375*	TQ	PS	69,000	Scraper	20	27	1958	1961
CW-226	2	GM	6-110T	375*	TQ	PS	85,500	Scraper	26	36	1958	1961
CW-320	3	Cum	NRT-6	300	DD	MS	64,500	Scraper	20	27	1958	1961
Deere & Company												
				rated								
840 Elevating	3	Deere		76	DD	MS	20,330	Scraper		7.5	1962	1965
5010 Elevating	3	Deere		127	DD	MS	28,850	Scraper		8	1961	1965
JD760 Elevating	3	Deere		143	DD	MS	30,650	Scraper		9	1965	1969
JD760A	3	Deere		152	TQ	PS	32,250	Scraper		9.5	1969	Current
JD860	2	GM	6-71	215	TQ	PS	42,300	Scraper		15	1969	Current

Model	# Axles	Engine Make	Engine Model	Drive h.p.	Shift Type	Type	Weight	Type	Standard Hauling Unit Cubic Yards Struck	Heaped	Years Built From	To
Euclid, Inc.												
				rated								
76FDR-18SH	3	Cum	NH		TQ	PS		Scraper	12	16		1957
76FDR-89W	3	Cum	NH		TQ	PS		B. dump	13	19		1957
77FDR-18SH	3	GM	6-71		TQ	PS		Scraper	12	16		1957
77FDT-89W	3	GM	6-71		TQ	PS		B. dump	13	19		1961
22TDT-21SH	3	GM	6-110		TQ	PS		Scraper	15.5	21		1956
22TDT-122W	3	GM	6-110		TQ	PS		B. dump	17	25.5		1956
23TDT	3	GM	6-110		TQ	PS		Scraper	15.5	21		1956
23TDT-122W	3	GM	6-110		TQ	PS		B. dump	17	25.5		1961
28TDT-22SH	3	Cum	NRT		TQ	PS		Scraper	15.5	21		1956
28TDT	3	Cum	NRT		TQ	PS		B. dump	17	25.5		1959
14TDT-21SH	3	Cum			TQ	PS		Scraper	15.5	21		1955
15TDT-22SH	3	Tw Cum	NH		TQ	PS		Scraper	18	24		1955
16TDT-23SH	3	Tw GM	6-71		TQ	PS		Scraper	18	24		1956
37LDT-137W	3	GM	6-110T		TQ	PS		B. dump	30	46		1960
34LDT-141W	3	GM	12V-71		TQ	PS		B. dump	40	62		1960
34LDT-144W	3	GM	12V-71		TQ	PS		B. dump	40	62		1962
36LDT-141W	3	Cum	NVH		TQ	PS		B. dump	40	62		1960
36LDT-144W	3	Cum	NVH		TQ	PS		B. dump	40	62		1962
SS-18(23TDT-36SH)	3	GM	12V-71		TQ	PS	71,300	Scraper	18	25		1961
SS-18(14RDR-36SH)	3	Cum			TQ	PS	56,900	Scraper	18	25		1961
SS-24(28LDT-32SH)	3	GM	6-110		TQ	PS		Scraper	24	32		1959
SS-24(33LDT-32SH)	3	Cum	NRTO-6-Bl		TQ	PS		Scraper	24	32		1959
SS-24(37LDT-32SH)	3	GM	6-110T		TQ	PS	69,000	Scraper	24	32		1960
SS-24(34LDT-32SH)	3	GM	12V-71		TQ	PS	71,300	Scraper	24	32		1963
SS-23(36LDT-32SH	3	Cum	NVH		TQ	PS	74,500	Scraper	24	32		1963
SS-28(49LDT-53SH)	3	GM	12V-71N	475	TQ	PS	90,800	Scraper	28	38		1966
SS-28(36LDT-53SH)	3	Cum	NVH-12	450	TQ	PS	92,700	Scraper	28	38		1966
SS-33(34LDT-42SH)	3	GM	12V-71		TQ	PS	88,000	Scraper	33	43		1961
SS-40(34LDT-47SH)	3	GM	12V-71		TQ	PS	99,400	Scraper	40	52		1962
SS-40(36LDT-47SH)	3	Cum	NVH		TQ	PS	101,000	Scraper	40	52		1962
SS-40(49LDT-52SH)	3	GM	12V-71N	475	TQ	PS	101,500	Scraper	40	52		1968
SS-40(36LDT-52SH)	3	Cum		450	TQ	PS	102,100	Scraper	40	52		1967
B-63(49LDT-144W)	3	GM	12V-71N		TQ	PS		Wagon	42	64		1964
B-63(36LDT-144W)	3	Cum	NVH		TQ	PS		Wagon	42	64		1964
B-100(201LDT-146W)	3	GM	16V-71N	607	TQ	PS	110,100	Wagon	60	78		Current
B-100 (201LDT-201W)	3	GM	16V-71N	607	TQ	PS	113,900		60	78		Current
B-100(46LDT-146W)	3	Cum	VT-12-635	600	TQ	PS	110,100	Wagon	60	78		Current
B-110 (201LDT-201W)	3	GM	16V-71N	607	TQ	PS	116,900		67.5	85		Current
SS-24(49LDT-77SH)	3	GM		475	TQ	PS	78,300	Scraper	24	32		1968
SS-24(36LDT-77SH)	3	Cum		450	TQ	PS	79,000	Scraper	24	32		1967
B-63(49LDT-147W)	3	GM		475	TQ	PS		Wagon	42	64		Current
B-63(36LDT-147W)	3	Cum		450	TQ	PS		Wagon	42	64		1967
B-63 (203LDT-147W)	3	GM	12V-71N	440	TQ	PS	77,375		42	56		Current
B-70 (203LDT-147W)	3	GM	12V-71N	440	TQ	PS	79,000		47	62		Current
FWD-Wagner												
				max								
WSC-4(LS-8)	3	GM	4-53	125	TQ	PS	29,000	(Elevating Scraper)		8	1966	1968
Hancock Division-Clark Equipment Company												
292B	2	GM	4-71N	160	TQ	PS	33,300	(Elevating Scraper)		11	1966	1969
292C	2	GM	4-71N	160	TQ	PS	34,000	(Elevating Scraper)		11	1969	Current
294	2	GM(2)	4-71N(2)	160	TQ	PS	52,000	(Elevating Scraper)		16	1969	Current
International Harvester Company (International Construction Equipment)												
				flywheel								
2T-55/2S-55	2	Cum	HRB-600	165	DD	MS	37,600	Scraper	10	13	1954	1955
55(551)	2	Cum	HR-6-B1	175	DD	MS	40,865	Scraper	10.3	14	1955	1962
2T-75/2S-75	2	Cum	NHB-600	200	DD	MS	51,800	Scraper	14	18	1954	1955
75(751)	2	Cum	NTO-6-Bl	262	DD	MS	54,345	Scraper	15	20	1955	1962
270	2	IH	DVT-573B	266	TQ	PS	44,540	Scraper	14	19	1962	Current
295	2	IH	DT-817	385	TQ	PS	77,130	Scraper	24	34	1959	1961
295	2	IH	DT-817	375	TQ	PS	77,160	Scraper	24	34	1961	1963
295-B	2	IH	DT-817	394	TQ	PS	72,950	Scraper	24	32	1962	1968

Model	# Axles	Engine Make	Engine Model	Drive h.p.	Shift Type	Type	Weight	Type	Standard Hauling Unit Cubic Yards Struck	Heaped	Years Built From	To
295-B	2	IH	DT-817B	396	TQ	PS	74,340	Scraper	24	32	1968	Current
495	3	IH	DT-817	385	TQ	PS	75,580	Scraper	24	34	1958	1961
495	3	IH	DTI-817	375	TQ	PS	76,610	Scraper	24	34	1961	1965
495	3	IH	DT-817	385	TQ	PS	59,480	Wagon	27	40.5	1958	1961
495	3	IH	DTI-817	375	TQ	PS	60,600	Wagon	27	40.5	1961	1965
E-200	2	IH	DT-407	135	TQ	PS	26,900	(Elevating		9.5	1966	Current
E-211	2	IH	DT-407	150	TQ	PS	27,450			11	1969	Current
E-270	2	IH	DVT-573B	266	TQ	PS	51,700	Scrapers)		21	1965	Current
E-295	2	IH	DT-817B	396	TQ	PS	88,060			32	1968	Current
M-R-S Manufacturing Company												
				rated				Scrapers				
150	4	Cum		210	DD	MS		Cable	15	18	1952	1961
150	4	Cum		280	DD	MS		Cable	20	24	1961	1971
190	4	Cum		288	DD	MS		Cable	16	20	1955	1961
190	4	Cum		430	TQ	PS		Hydraulic	30	40	1961	1968
200	4	Cum		335	DD	MS		Cable	18	24	1959	1961
200	4	Cum		500	TQ	PS		Hydraulic	38	46.5	1962	1971
200	4	Cum		525	DD	MS		Cable	34	41	1956	1952
200	4	Cum		525	DD	MS		Hydraulic	38	48	1958	1959
250	4	Cum		635	DD	MS		Hydraulic	40	50	1960	1962
250	4	Cum		635	DD	MS		Hydraulic	48	58	1962	Current
190 Twin	4	Cum (2)		860	TQ	PS		Hydraulic	43	53		Current
250 B Twin	4	Cum (2)		1065	TQ	PS		Hydraulic	48-58	55-65		Current
250	3	Cum		635	TQ	PS		B. dump	140 ton			Current
1-80T	3	GM		141	DD	MS		Elevating		8	1965	1969
1-80S	3	GM		159	DD	MS		Elevating		12	1965	1969
1-90S	3	GM		186	TQ	PS		Elevating		13	1966	Current
1-100S-100ES	3	GM		290	TQ	PS		Elevating		20.5	1968	Current
1-105S-105ES	3	GM		373	TQ	PS		Elevating		24	1968	Current
1-105KS-100ES	3	GM		422	TQ	PS		Elevating		22	1971	Current
1-110S-110ES	3	GM		482	TQ	PS		Elevating		30	1971	Current
TEREX Division- General Motors Corporation												
S-7 (3UOT-26SH)	2	GM	4-71	148	TQ	PS	26,590	Scraper	7	9	1955	1970
S-11E	2	GM	4-71N	160	TQ	PS	33,300	E. Scraper		11	1969	Current
S-12 (78FOT-29SH)	2	GM	6-71	227	TQ	PS	46,100	Scraper	12	16	1955	1962
S-7H/S-12E	2	GM	4-71	148	TQ	PS	33,370	E. Scraper		12	1965	1969
S-18 (27LOT-28SH)	2	GM	6-110	336	TQ	PS	68,400	Scraper	18	25	1955	1956
S-18 (30LOT-28SH)	2	GM	6-110	336	TQ	PS	66,700	Scraper	18	25	1957	1958
S-18 (30LOT-46SH)	2	GM	6-110	336	TQ	PS	67,000	Scraper	18	25	1958	1961
S-24 (39LOT-46SH)	2	GM	12V-71	432	TQ	PS	72,860	Scraper	24	32	1961	1962
S-24 (39LOT-55SH)	2	GM	12V-71	432	TQ	PS	75,000	Scraper	24	32	1962	1965
S-24 (39LOT76SH)	2	GM	12V-71	432	TQ	PS	79,350	Scraper	24	32	1966	1968
S-24 (49LOT-76SH)	2	GM	12V-71T	465	TQ	PS	80,850	Scraper	24	32	1969	Current
S-28 (38LOT-50SH)	2	GM	12V-71N	475	TQ	PS	91,400	Scraper	28	40	1963	1966
S-32 (47LOT-79SH)	2	GM	12V-71T	525	TQ	PS	107,000	Scraper	32	43	1967	Current
S-35E (47LOT-90SH)	2	GM	12V-71T	500	TQ	PS	98,900	E. Scraper		35	1968	Current
TS-14 (6UOT-38SH)	2 (2)	GM	4-71	296	TQ	PS	53,300	Scraper	14	20	1959	1964
TS-14 (7UOT-61SH)	2 (2)	GM	4-71	296	TQ	PS	53,300	Scraper	14	20	1964	1966
TS-14 (13UOT-81SH)	2 (2)	GM	4-71N	320	TQ	PS	53,300	Scraper	14	20	1967	Current
TS-14 Tandem (7UOT-63SH-62SH)	3 (3)	GM	4-71	444	TQ	PS	93,600	Scraper	28	40	1965	1966
TS-14 Tandem (13UOT-82SH-83SH)	3 (3)	GM	4-71N	480	TQ	PS	93,600	Scraper	28	40	1967	1969
TS-18 (29LOT-27SH)	2 (2)	GM	6-71	436	TQ	PS	78,200	Scraper	18	25	1955	1957
TS-18 (33 TOT-92SH)	2	GM	8V-71N 6V-71N	556	TQ	PS	72,000	Scraper	18	23	1971	Current

Model	# Axles	Engine Make	Engine Model	Drive h.p.	Shift Type	Type	Weight	Type	Standard Hauling Unit Cubic Yards Struck	Heaped	Years Built From	To
TS-24			6-110									
(31LOT-33SH)	2	GM	6-71	554	TQ	PS	76,100	Scraper	24	32	1957	1962
TS-24			6-110									
(31LOT-56SH)	2	GM	6-71	563	TQ	PS	82,800	Scraper	24	32	1963	1965
TS-24			12V-71									
(39LOT-56SH)	2	GM	6-71	659	TQ	PS	84,800	Scraper	24	32	1963	1965
TS-24			12V-71									
(43LOT-78SH)	2	GM	6-71	659	TQ	PS	91,000	Scraper	24	32	1966	1971
TS-24			12V-71N									
(43 LOT-78SH)	2	GM	6-71N	672	TQ	PS	91,000	Scraper	24	32	1971	Current
TS-32			12V-71T									
(47LOT-80SH)	2	GM	8V-71T	875	TQ	PS	124,500	Scraper	32	43	1966	Current
WABCO												
				rated								
D Roadster	2	GM	4-71	122				Scraper	5.9	7		1953
Tournapull								R. dump	7	8		
(Step Gear)												
D Tournapull	2	GM	4-71	122				Scraper	6.6	7.5		1954
(Step Gear)								R. dump	7	8		
		GM	4-71	138				Scraper	6.6	7.5		1958
								R. dump	7	8		
D Tournapull	2	GM	4-71	143			23,750	Scraper	7.3	9		1960
(Step Gear or								R. dump	7	8		
Power Shift)		GM	4-71	148			23,070	Scraper	7.3	9		1969
								R. dump	7	8		
109A	2	GM	4-71N	160		PS	23,070	Scraper	7.3	9		Current
111A	2	GM	4-71N	160		PS	30,300	Elevating		11		Current
								Scraper				
C Roadster	2	Cum	HRB-600	165				Scraper	11	14		1950
Tournapull								R. dump	13	17		
(Step Gear)		Buda	6DC-844	180				Scraper	11	14		1950
								R. dump	13	17		
		GM	6-71	186				Scraper	11	14		1951
								R. dump	13	17		
C Tournamatic	2	GM	6-71	186				Scraper	12.2	16		1953
(Power Shift)								R. dump	13	17		
								B. dump	14	16		
C Tournapull	2	Buda	A-8DA-844	200			43,860	Scraper	12.2	18		1955
(Step Gear or								R. dump	14.7	22		
Power Shift)								B. dump	14	16		
		GM	6-71	208			43,860	Scraper	12.2	18		1957
								R. dump	14.7	22		
		GM	6-71	210			46,860	Scraper	12.2	18		1957
								R. dump	14.7	22		
		Cum	HBIS-600	200			43,860	Scraper	12.2	18		1958
								R. dump	14.7	22		
		GM	6-71	218			43,860	Scraper	12.2	18		1958
								R. dump	14.7	22		
		Cum	HBIS-600	210			43,860	Scraper	12.2	18		1959
								R. dump	14.7	22		
		GM	6-71	226			43,860	Scraper	12.2	18		1959
								R. dump	14.7	22		
229 F	2	GM	8V-71N	318		PS	52,600	Scraper	15	21		Current
C-222A	2	GM	8V-71	290			57,050	Elevating	21			1967
								Scraper				
222F	2	GM	8V-71N	318		PS	58,200	Elevating		22		Current
								Scraper				
V Powered C	2	GM	8V-71	270			43,860	Scraper	12.2	18		1959
Tournapull								R. dump	14.7	22		
(Step Gear)												
C500 Tournapull	2	GM	8V-71	290*			55,630	Scraper	16	21		1967
(Power Shift)								Tandem				
							73,820	Scraper	32	42		
B Tournapull	2	Cum	HRBIS-600	293				Scraper	18	25		1956
(Step Gear)								R. dump	23	27		
		GM	6-110	300			68,900	Scraper	19.1	27		1957
								R. dump	23	27		
		Cum	NRT-6-BI	300			68,900	Scraper	19.1	27		1957
								R. dump	23	27		
		GM	6-110	325			62,750	Scraper	21	28		1958
								R. dump	23	27		
		GM	6-110	335			62,750	Scraper	21	28		1960
								R. dump	23	27		

Model	# Axles	Engine Make	Engine Model	Drive h.p.	Shift Type	Type	Weight	Type	Standard Hauling Unit Cubic Yards Struck	Heaped	Years Built From	To
		GM	12V-71	430			69,400	Scraper	23	29		1961
								R. dump	23	27		
B Tournapull	2	Cum	NRTO-6-BI	335			68,900	Scraper	19.1	27		1959
(Power Shift)								R. dump	23	27		
B Tournapull	2	Cum	NRTO-6-BI	335			68,900	Scraper	19.1	27		1959
(Step Gear or								R. dump	23	27		
Power Shift)		GM	6-110T	360			62,750	Scraper	21	28		1959
								R. dump	23	27		
		GM	12V-71	430			70,500	Scraper	23	29		1962
								R. dump	23	27		
B-70 Tournapull	2	GM	12V-71	475			71,860	Scraper	25	32		1967
(Power Shift)								Tandem				
							111,915	Scraper	50	64		
333F	2	GM	12V-71N	475		PS	94,285	Elevating		32		Current
								Scraper				
333FT	2	GM	(2)12V-71TV	965		PS	114,600	Elevating		34		Current
								Scraper				
339F	2	GM	12V-71N	475		PS	86,500	Scraper	25	34		Current
101F	2	Cum	V-504	178		PS	27,900	Elevating		9	1970	Current