one man, although two are frequently used—one to operate the crane, and the other as helper in the coal car to clear the corners and guide the bucket.

The following figures represent the coal handling capacity of this crane:

a.	Average number of locomotives fueled per day	25
ħ.	Average tonnage per 12 hours	168
c.	Maximum actual tonnage per 12 hour	180
	Total tonnage for year 1906	

The initial cost of the crane was \$7,400, and the cost of bucket, pits, etc., is estimated at \$4,300. The handling costs, per ton, are made up as follows:

Average tons handled per day		166
Fixed charges, per ton		
Operating charges, labour		4.6
Operating charges, power and supplies		"
Maintenance charges		44
Pro-rata charges		6.6
_		
Total cost per ton	8.2	4.

(N.B. No ash handling costs were available for this plant.)

Other locomotive crane plants show the following costs:

COAL HANDLING.

LOCATION	Buffalo	Leipsig	Bellevne	Ft. Wayne	Соппеац	Stoney I'd	Cleveland	Міпа	
Year	1905	1905	1905	1905	1905	1905	1906	1906	
Aver. tons per day	176	116	230	153	106	45	166	218	
Fixed charges	1.9	1.7	1.8	1.8	3.7	7.9	2.	1.5	cents
Operating charges	4.7	6.1	3.6	5.1	3.0	5 5	5.5	3.5	4.4
Maintenance charges	0.5	0.2	0.7	0.5	0.4	0.2	0.3	0.1	
Pro-rata charges	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
Total charge per ton	7.5	8.4	6.5	7.8	7.5	14.0	8.2	5.5	"

ASH HANDLING.

No. of locos. cleaned per day	20	13	26	17	12	5	19	25
Cost per loco. cleaned	4.8		3.82	2.4	3.3	4.7		cents