	Truck Study	Simulation (M	onthly Dlan															
Items de Cálculo	Palas	Camiones	Ubicación de	Cargadores														
Disponibilidad	91%	92%	Cargador	Fase														
Utilización	87%	88%	Load1 (K06)															
Horas	24	24	, ,	F7														
Horas Simulación	134	581	` ′															
GPSS Tiempo	481,056	2,092,466	` ′															
Trucks Equivalentes	Unidades	1	. 2	2 3	4	5	6	7	8	9	10	11	15	16	17	18	19	20
			28%	75%	50%	31%	22%	18%	12%	11%	10%	11%	31%	5%	6%	3%	4%	6%
Material Movido	Tons	180,116	230,584	403,892	605,172	792,096	965,108	1,137,824	1,270,580	1,410,144	1,550,300	1,713,988	2,253,892	2,363,264	2,505,196	2,584,672	2,692,416	2,851,516
Producción	Tons	180,116	230,584	403,744	605,024	791,800	964,812	1,137,232	1,270,136	1,409,552	1,549,560	1,713,248	2,252,708	2,361,932	2,503,716	2,583,340	2,690,936	2,850,184
Load1	Tons	-	25,160	111,740	304,732	441,188	527,620	614,200	669,108	738,964	808,820	857,068	936,692	934,620	1,001,664	998,852	1,022,088	1,011,284
Load2	Tons	180,116	205,424	292,152	300,440	350,908	437,488	523,624	556,924	626,336	696,192	744,144	1,055,388	1,147,148	1,165,352	1,223,220	1,236,984	1,267,176
Load3	Tons	-	-	-	-	-	-	-	44,548	44,844	45,288	112,776	261,812	281,496	338,180	362,600	433,344	573,056
F5C	Tons	-	25,160		304,732	441,188	527,620	614,200	669,108	738,964	808,820	857,068	936,692	934,620	1,001,664	998,852	1,022,088	1,011,284
F7	Tons	180,116	205,424	292,152	300,440	350,908	437,488	523,624	556,924	626,336	696,192	744,144	1,055,388	1,147,148	1,165,352	1,223,220	1,236,984	1,267,176
F5B	Tons	-	- 205 120	-	-	-	-	-	44,548	44,844	45,288	112,776	261,812	281,496	338,180	362,600	433,344	573,056
Desmonte Mineral de Mina a Chancadora	Tons	179,968	205,128		299,848	350,168	436,600	522,588	622,340	691,752	761,460	809,708	1,129,240	1,219,076	1,304,176	1,359,084	1,396,084	1,415,472
Mineral a Chancadora Total	Tons Tons	148 148		-	305,176 305,176	441,632 441,632	528,212 528,212	614,644 614,644	647,796 647,796	717,800 717,800	787,952 788,100	869,648 903,540	924,852 1,123,468	907,240 1,142,856	948,236 1,199,540	931,512 1,224,256	954,896 1,294,852	962,888 1,434,712
Mineral promedio día	Tons	5	849		10,173	14,721	17,607	20,488	21,593	23,927	26,270	30,118	37,449	38,095	39,985	40,809	43,162	47,824
Total promedio día	Tons	6,004		-	20,172	26,403	32,170	37,927	42,353	47,005	51,677	57,133	75,130	78,775	83,507	86,156	89,747	95,051
Stripping ratio	12.10	1,216.00	-		0.98	0.79	0.83	0.85	0.96	0.96	0.97	0.90	1.01	1.07	1.09	1.11	1.08	0.99
Tonelaje en ruta	Tons	-	-	148	148	296	296	592	444	592	740	740	1,184	1,332	1,480	1,332	1,480	1,332
Camiones en ruta cargados	Unidades	-	-	1	1	2	2	4	3	4	5	5	8	9	10	9	10	9
Stock	Tons	-	-	-	-	-	-	-	-	-	148	33,892	198,616	235,616	251,304	292,744	339,956	471,824
Util Load1	%	0%	2%	7%	19%	28%	33%	39%	42%	47%	51%	54%	59%	59%	26%	63%	64%	64%
Util Load2	%	7%	13%	18%	19%	22%	28%	33%	35%	39%	44%	47%	66%	72%	73%	77%	78%	80%
Util Load3	%	0%				0%	0%	0%	4%	4%	4%	9%	20%	22%	26%		34%	45%
Util Swc1	%	3%				5%	5%	5%	5%		5%	5%	12%	15%	15%		17%	18%
Util Swc2	%	0%				5%	7%	10%	11%	13%	15%	17%	19%	19%	21%		21%	21%
Util Swc3	%	0%				0%	0%	0%	1%	1%	1%	1%	1%	1%	1%		1%	1%
Util Crush	%	0%				30%	36%	42%	44%	49%	53%	59%	63%	62%	64%		65%	65%
Queue Load1	Seg	-	-	-	-	-	-	-	-	- 17.62	0.06	15.59	81.33	89.07	90.63	103.53	94.00	124.66
Queue Load2	Seg	-	0.01	0.02	0.04	0.06	0.08	0.09	15.96	17.63	18.90	20.54	40.50	47.58	68.81	63.82	83.52	100.71
Queue Load3 Queue Swc1	Seg	-	-	-	-	-	-	-	23.32	23.22	26.06	19.98	72.54	123.21	84.69	106.53	90.97	86.03
Queue Swc2	Seg Seg	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Queue Swc3	Seg	_	_	-	-	_	-	-	-	-	-	-	-	-	-	-	-	_
Queue Crusher	Seg	_	0.09		0.33	0.03	0.03	0.30	68.91	141.52	200.83	203.55	157.75	156.80	153.63	269.76	367.10	365.46
Queue Load1	Min	-	-	-	-	-	-	-	-	-	0.00	0.26	1.36	1.48	1.51	1.73	1.57	2.08
Queue Load2	Min	-	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.29	0.31	0.34	0.67	0.79	1.15	1.06	1.39	1.68
Queue Load3	Min	1	-	-	-	-	-	-	0.39	0.39	0.43	0.33	1.21	2.05	1.41	1.78	1.52	1.43
Queue Swc1	Min	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Queue Swc2	Min	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Queue Swc3	Min	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Queue Crusher	Min	-	0.00		0.01	0.00	0.00	0.01	1.15	2.36	3.35	3.39	2.63	2.61	2.56	4.50	6.12	6.09
Max Queue Load?	Unidades	- 1	1		1	1	1	1	1	1	1	1	4	4	5	5	5	5
Max Queue Load?	Unidades	1	1		1	1	1	1	2	1	2	2	3	5 3	3	3	5 3	5
Max Queue Load3 Max Queue Crusher	Unidades Unidades	- 1	1	1	2	- 1	1	- 3	2	3	3	3	3	3	3	3	3	3
Ciclos Load1	Unidades	-	170		2,059	2,981	3,565	4,150	4,521	4,993	5,465	5,791	6,329	6,315	6,768	6,749	6,906	6,833
Ciclos Load2	Unidades	1,217	1,388		2,030	2,371	2,956	3,538	3,763	4,232	4,704	5,028	7,132	7,752	7,875	8,267	8,360	8,566
Ciclos Load3	Unidades	-	-	-	-	-	-	-	301	303	306	762	1,769	1,902	2,285	2,450	2,928	3,872
Ciclos Crush	Unidades	1	172	758	2062	2985	3570	4153	4378	4851	5325	5877	6249	6130	6407		6453	6506
Ciclos SWC1	Unidades	1216	1216	1216	1216	1216	1216	1216	1216	1216	1216	1216	2833	3456	3577	3967	4061	4265
Ciclos SWC2	Unidades	C	170	755	810	1150	1734	2315	2690	3159	3630	3956	4498	4482	4937	4918	5073	5000
Ciclos SWC3	Unidades	C	0	,		0	0	0	299	299	299	299	299	299	299	299	299	299
Entry (0)Load1	Unidades	C	170	755	2059	2981	3565	4150	4521	4993	5463	5104	4968	4894	5119	4763	4793	3284
Entry (0)Load2	Unidades	1217	1387	1972	2027	2367	2951	3532	3407	3849	4296	4594	5742	5937	5293		5122	4421
Entry (0)Load3	Unidades	-	-	-	-	-	-	-	151	153	153	381	899	815	1,021	953	1,230	1,665
Entry (0)SWC1	Unidades	1216				1216	1216	1216	1216	1216	1216	1216	2833	3456	3577		4061	4265
Entry (0)SWC2	Unidades	C	170	755		1150	1734	2315	2690	3159	3630	3956	4498	4482	4937		5073	5000
Entry (0)SWC3	Unidades	-	, C	0	0	0	0	0	299	299	299	299	299	299	299		299	299
Disponibilidad	%	92%				92%	92%	92%	92%	92%	92%	92%	92%	92%	92%		92%	92%
Utilización	%	88%			88%	88%	88%	88%	88%	88%	88%	88%	88%	88%	88%		88%	88%
Horas Dispo Load?	Horas	664.02			664.02	664.02	664.02	664.02	664.02	664.02	664.02	664.02	664.02	664.02	664.02	664.02	664.02	664.02
Horas Dispo Load2	Horas	664.02	664.02	664.02	664.02	664.02	664.02	664.02	664.02	664.02	664.02	664.02	664.02	664.02	664.02	664.02	664.02	664.02

Horas Dispo Load3	Horas	664.02	664.02	664.02	664.02	664.02	664.02	664.02	664.02	664.02	664.02	664.02	664.02	664.02	664.02	664.02	664.02	664.02
Horas Utilizables Load1	Horas	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24
Horas utilizables Load2	Horas	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24
Horas utilizables Load3	Horas	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24	581.24
Tiempo de Carguio L1	Seg	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124
Tiempo de Cuadrado L1	Seg	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71
Tiempo de Carguio L2	Seg	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124
Tiempo de Cuadrado L2	Seg	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71
Tiempo de Carguio L3	Seg	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167	167
Tiempo de Cuadrado L3	Seg	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74
Tiempo Efectivo Carguio L1	Horas	-	5.84	25.92	70.69	102.35	122.40	142.48	155.22	171.43	187.63	198.82	217.30	216.82	232.37	231.72	237.11	234.60
Tiempo Efectivo Spot L1	Horas	-	3.37	14.97	40.84	59.12	70.71	82.31	89.67	99.03	108.39	114.85	125.53	125.25	134.23	133.86	136.97	135.52
Tiempo Efectivo Carguio L2	Horas	41.78	47.65	67.77	69.70	81.40	101.49	121.47	129.20	145.30	161.50	172.63	244.87	266.15	270.38	283.83	287.03	294.10
Tiempo Efectivo Spot L2	Horas	24.14	27.53	39.15	40.26	47.02	58.63	70.17	74.63	83.93	93.30	99.72	141.45	153.75	156.19	163.96	165.81	169.89
Tiempo Efectivo Carguio L3	Horas	-	-	-	-	-	-	-	14.00	14.09	14.23	35.43	82.26	88.44	106.25	113.93	136.15	180.05
Tiempo Efectivo Spot L3	Horas	_	-	_	-	_	_	_	6.22	6.26	6.32	15.75	36.56	39.31	47.22	50.63	60.51	80.02
Cobertura Pala L1	%	0.0%	1.6%	7.0%	19.2%	27.8%	33.2%	38.7%	42.1%	46.5%	50.9%	54.0%	59.0%	58.9%	63.1%	62.9%	64.4%	63.7%
Cobertura Pala L2	%	11.3%	12.9%	18.4%	18.9%	22.1%	27.5%	33.0%	35.1%	39.4%	43.8%	46.9%	66.5%	72.2%	73.4%	77.0%	77.9%	79.8%
Cobertura Pala L3	%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.5%	3.5%	3.5%	8.8%	20.4%	22.0%	26.4%	28.3%	33.8%	44.7%
Waiting Truck L1	%	100.0%	98.4%	93.0%	80.8%	72.2%	66.8%	61.3%	57.9%	53.5%	49.1%	46.0%	41.0%	41.1%	36.9%	37.1%	35.6%	36.3%
Waiting Truck L2	%	88.7%	87.1%	81.6%	81.1%	77.9%	72.5%	67.0%	64.9%	60.6%	56.2%	53.1%	33.5%	27.8%	26.6%	23.0%	22.1%	20.2%
Waiting Truck L3	%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	96.5%	96.5%	96.5%	91.2%	79.6%	78.0%	73.6%	71.7%	66.2%	55.3%
Horas Cobertura Pala	Horas	65.92	84.39	147.82	221.49	289.90	353.22	416.43	468.93	520.04	571.37	637.21	847.96	889.71	946.64	977.93	1,023.57	1,094.18
Horas Espera Pala	Horas	1,677.80	1,659.33	1,595.90	1,522.23	1,453.82	1,390.50	1,327.29	1,274.79	1,223.68	1,172.35	1,106.51	895.77	854.01	797.08	765.80	720.15	649.54
Cobertura Pala	%	3.8%	4.84%	8.5%	12.7%	16.6%	20.3%	23.9%	26.9%	29.8%	32.8%	36.5%	48.6%	51.0%	54.3%	56.1%	58.7%	62.7%
Espera Volquetes	%	96.2%	95.2%	91.5%	87.3%	83.4%	79.7%	76.1%	73.1%	70.2%	67.2%	63.5%	51.4%	49.0%	45.7%	43.9%	41.3%	37.3%
Productividad L1	Tn/hr	-	43	192	524	759	908	1,057	1,151	1,271	1,392	1,475	1,612	1,608	1,723	1,718	1,758	1,740
Droductividad L2	T /h	310	252	503	517	604	753	901	958	1,078	1,198	1,280	1,816	1.074		2.404	2.420	2.100
Productividad L2	Tn/hr	210	353	503	21/	004	/53	301	956	1,070	1,130	1,200	1,010	1,974	2,005	2,104	2,128	2,180
Productividad L2 Productividad L3	Tn/hr	210	-	-	-	-	-	-	77	77	78	194	450	484	582	624	746	986
											-						-	
Productividad L3	Tn/hr	-	-	-	-	-	-	-	77		78	194	450	484	582	624	746	986
Productividad L3 Horas Queue L1	Tn/hr Hr	-	-			-	-	-	77	77	78 0.1	194 25.1	450 143.0	484 156.2	582 170.4	624 194.1	746 180.3	986 236.6
Productividad L3 Horas Queue L1 Horas Queue L2	Tn/hr Hr Hr		- - 0.0	- 0.0	- - 0.0	- 0.0	- - 0.1	- 0.1	77 - 16.7	77 - 20.7	78 0.1 24.7	194 25.1 28.7	450 143.0 80.2	484 156.2 102.5	582 170.4 150.5	624 194.1 146.6	746 180.3 194.0	986 236.6 239.6
Productividad L3 Horas Queue L1 Horas Queue L2 Horas Queue L3	Tn/hr Hr Hr Hr	- - -	- - 0.0	- - 0.0 -	- - 0.0	- - 0.0	- - 0.1	- - 0.1	77 - 16.7 1.9	77 - 20.7 2.0	78 0.1 24.7 2.2	194 25.1 28.7 4.2	450 143.0 80.2 35.6	484 156.2 102.5 65.1	582 170.4 150.5 53.8	624 194.1 146.6 72.5	746 180.3 194.0 74.0	986 236.6 239.6 92.5
Productividad L3 Horas Queue L1 Horas Queue L2 Horas Queue L3 Hora Queue Sistema	Tn/hr Hr Hr Hr Hr	- - - -	- 0.0 - 0.00	- - 0.0 - 0.01	- 0.0 - 0.02	- 0.0 - 0.04	- 0.1 - 0.06	- 0.1 - 0.09	77 - 16.7 1.9 18.63	77 - 20.7 2.0 22.68	78 0.1 24.7 2.2 27.00	194 25.1 28.7 4.2 57.99	450 143.0 80.2 35.6 258.85	484 156.2 102.5 65.1 323.79	582 170.4 150.5 53.8 374.65	624 194.1 146.6 72.5 413.15	746 180.3 194.0 74.0 448.27	986 236.6 239.6 92.5 568.79
Productividad L3 Horas Queue L1 Horas Queue L2 Horas Queue L3 Hora Queue Sistema % Tiempo Cola	Tn/hr Hr Hr Hr Hr	- - - - - 0.0%	- 0.0 - 0.00 0.0%	- 0.0 - 0.01 0.0%	- 0.0 - 0.02 0.0%	- 0.0 - 0.04 0.0%	- 0.1 - 0.06 0.0%	- 0.1 - 0.09 0.0%	77 - 16.7 1.9 18.63 0.4%	77 - 20.7 2.0 22.68 0.4%	78 0.1 24.7 2.2 27.00 0.5%	194 25.1 28.7 4.2 57.99 0.9%	450 143.0 80.2 35.6 258.85 3.0%	484 156.2 102.5 65.1 323.79 3.5%	582 170.4 150.5 53.8 374.65 3.8%	624 194.1 146.6 72.5 413.15 3.9%	746 180.3 194.0 74.0 448.27 4.1% 1.7% 58.70%	986 236.6 239.6 92.5 568.79 4.9%
Productividad L3 Horas Queue L1 Horas Queue L2 Horas Queue L3 Hora Queue Sistema % Tiempo Cola QH	Tn/hr Hr Hr Hr Hr	- - - - - 0.0%	- 0.0 - 0.00 0.0% 0.0%	- 0.0 - 0.01 0.0% 0.0%	- 0.0 - 0.02 0.0% 0.0%	- 0.0 - 0.04 0.0% 0.0%	- 0.1 - 0.06 0.0% 0.0%	- 0.1 - 0.09 0.0% 0.0%	77 - 16.7 1.9 18.63 0.4% 0.3%	77 - 20.7 2.0 22.68 0.4% 0.3%	78 0.1 24.7 2.2 27.00 0.5% 0.3%	194 25.1 28.7 4.2 57.99 0.9% 0.6%	450 143.0 80.2 35.6 258.85 3.0% 1.5%	484 156.2 102.5 65.1 323.79 3.5% 1.7%	582 170.4 150.5 53.8 374.65 3.8% 1.7%	624 194.1 146.6 72.5 413.15 3.9% 1.7%	746 180.3 194.0 74.0 448.27 4.1%	986 236.6 239.6 92.5 568.79 4.9%
Productividad L3 Horas Queue L1 Horas Queue L2 Horas Queue L3 Hora Queue Sistema % Tiempo Cola QH Match Factor= n*(tc+ts)/m*tq	Tn/hr Hr Hr Hr Hr	- - - - 0.0% 0.0% 3.78%	- 0.0 - 0.00 0.0% 0.0% 4.84%	- 0.0 - 0.01 0.0% 0.0%	- 0.0 - 0.02 0.0% 0.0%	- 0.0 - 0.04 0.0% 0.0% 16.63%	- 0.1 - 0.06 0.0% 0.0% 20.26%	- 0.1 - 0.09 0.0% 0.0% 23.88%	77 - 16.7 1.9 18.63 0.4% 0.3% 26.89%	77 - 20.7 2.0 22.68 0.4% 0.3% 29.82%	78 0.1 24.7 2.2 27.00 0.5% 0.3% 32.77%	194 25.1 28.7 4.2 57.99 0.9% 0.6% 36.54%	450 143.0 80.2 35.6 258.85 3.0% 1.5% 48.63% 48.63%	484 156.2 102.5 65.1 323.79 3.5% 1.7% 51.02%	582 170.4 150.5 53.8 374.65 3.8% 1.7% 54.29% 54.29%	624 194.1 146.6 72.5 413.15 3.9% 1.7% 56.08%	746 180.3 194.0 74.0 448.27 4.1% 1.7% 58.70%	986 236.6 239.6 92.5 568.79 4.9% 1.8% 62.75%
Productividad L3 Horas Queue L1 Horas Queue L2 Horas Queue L3 Hora Queue Sistema % Tiempo Cola QH Match Factor= n*(tc+ts)/m*tq Match Factor= (1-%E)*t(-q)/((1-%Q)*tq)	Tn/hr Hr Hr Hr Hr	- - - - 0.0% 0.0% 3.78% 3.78%	- 0.0 - 0.00 0.0% 0.0% 4.84% 4.84%	- 0.0 - 0.01 0.0% 0.0% 8.48% 8.48%	- 0.0 - 0.02 0.0% 0.0% 12.70%	- 0.0 - 0.04 0.0% 0.0% 16.63%	- 0.1 - 0.06 0.0% 0.0% 20.26% 20.26%	- 0.1 - 0.09 0.0% 0.0% 23.88% 23.88%	77 - 16.7 1.9 18.63 0.4% 0.3% 26.89% 26.89%	77 - 20.7 2.0 22.68 0.4% 0.3% 29.82% 29.82%	78 0.1 24.7 2.2 27.00 0.5% 0.3% 32.77% 32.77%	194 25.1 28.7 4.2 57.99 0.9% 0.6% 36.54% 36.54%	450 143.0 80.2 35.6 258.85 3.0% 1.5% 48.63% 48.63%	484 156.2 102.5 65.1 323.79 3.5% 1.7% 51.02% 51.02%	582 170.4 150.5 53.8 374.65 3.8% 1.7% 54.29% 54.29%	624 194.1 146.6 72.5 413.15 3.9% 1.7% 56.08% 56.08%	746 180.3 194.0 74.0 448.27 4.1% 1.7% 58.70%	986 236.6 239.6 92.5 568.79 4.9% 1.8% 62.75%
Productividad L3 Horas Queue L1 Horas Queue L2 Horas Queue L3 Hora Queue Sistema % Tiempo Cola QH Match Factor= n*(tc+ts)/m*tq Match Factor= (1-%E)*t(-q)/((1-%Q)*tq) Match Factor= 1-%E	Tn/hr Hr Hr Hr % % % %	- - - 0.0% 0.0% 3.78% 3.78% 3.78%	- 0.0 - 0.00 0.0% 0.0% 4.84% 4.84% 4.84% 0.0	- 0.0 - 0.01 0.0% 0.0% 8.48% 8.48% 8.48%	- 0.00 - 0.02 0.0% 0.0% 12.70% 12.70% 12.70% 0.2	- 0.0 - 0.04 0.0% 0.0% 16.63% 16.63% 0.0	- 0.1 - 0.06 0.0% 0.0% 20.26% 20.26% 20.26% 0.0	- 0.1 - 0.09 0.0% 0.0% 23.88% 23.88% 23.88% 0.3 0.0%	77 - 16.7 1.9 18.63 0.4% 0.3% 26.89% 26.89% 26.89%	77 20.7 2.0 22.68 0.4% 0.3% 29.82% 29.82% 29.82% 190.7 3.6%	78 0.1 24.7 2.2 27.00 0.5% 0.3% 32.77% 32.77% 32.77% 297.1 5.1%	194 25.1 28.7 4.2 57.99 0.9% 0.6% 36.54% 36.54% 36.54% 32.3 5.2%	450 143.0 80.2 35.6 258.85 3.0% 1.5% 48.63% 48.63% 48.63% 273.8 3.1%	484 156.2 102.5 65.1 323.79 3.5% 1.7% 51.02% 51.02% 51.02% 267.0 2.9%	582 170.4 150.5 53.8 374.65 3.8% 1.7% 54.29% 54.29% 54.29% 273.4 2.8%	624 194.1 146.6 72.5 413.15 3.9% 1.7% 56.08% 56.08% 471.6 4.5%	746 180.3 194.0 74.0 448.27 4.1% 1.7% 58.70% 58.70% 658.0 6.0%	986 236.6 239.6 92.5 568.79 4.9% 1.8% 62.75% 62.75% 660.5 5.7%
Productividad L3 Horas Queue L1 Horas Queue L2 Horas Queue L3 Hora Queue Sistema % Tiempo Cola QH Match Factor= n*(tc+ts)/m*tq Match Factor= (1-%E)*t(-q)/((1-%Q)*tq) Match Factor= 1-%E Horas Queue Crusher	Tn/hr Hr Hr Hr % % % % H	- - - 0.0% 0.0% 3.78% 3.78% - 0.0%	- 0.00 - 0.00 0.0% 0.0% 4.84% 4.84% 0.0 0.0%	- 0.0 - 0.01 0.0% 0.0% 8.48% 8.48% 8.48% 0.0 0.0% 192	- 0.00 - 0.02 0.0% 0.0% 12.70% 12.70% 0.2	- 0.0 - 0.04 0.0% 0.0% 16.63% 16.63% 0.0 0.0% 757	- 0.1 - 0.06 0.0% 0.0% 20.26% 20.26% 20.26%	- 0.1 - 0.09 0.0% 0.0% 23.88% 23.88% 23.88% 0.3	77 - 16.7 1.9 18.63 0.4% 0.3% 26.89% 26.89% 26.89% 83.8	77 - 20.7 2.0 22.68 0.4% 0.3% 29.82% 29.82% 29.82% 190.7	78 0.1 24.7 2.2 27.00 0.5% 0.3% 32.77% 32.77% 32.77% 297.1 5.1% 1,351	194 25.1 28.7 4.2 57.99 0.9% 0.6% 36.54% 36.54% 36.54% 332.3	450 143.0 80.2 35.6 258.85 3.0% 1.5% 48.63% 48.63% 48.63% 273.8	484 156.2 102.5 65.1 323.79 3.5% 1.7% 51.02% 51.02% 51.02% 267.0	582 170.4 150.5 53.8 374.65 3.8% 1.7% 54.29% 54.29% 54.29%	624 194.1 146.6 72.5 413.15 3.9% 1.7% 56.08% 56.08% 471.6 4.5% 1,597	746 180.3 194.0 74.0 448.27 4.1% 1.7% 58.70% 58.70% 658.0	986 236.6 239.6 92.5 568.79 4.9% 1.8% 62.75% 62.75% 660.5 5.7% 1,651
Productividad L3 Horas Queue L1 Horas Queue L2 Horas Queue L3 Hora Queue Sistema % Tiempo Cola QH Match Factor= n*(tc+ts)/m*tq Match Factor= (1-%E)*t(-q)/((1-%Q)*tq) Match Factor= 1-%E Horas Queue Crusher % Tiempo en Cola Crusher Troughput Crusher Mina % Tiempo Cola Sistema Total	Tn/hr Hr Hr Hr % % % % Hr Tn/hr %	- - - 0.0% 0.0% 3.78% 3.78% 3.78% - 0.0% 0	- 0.00 - 0.00 0.0% 0.0% 4.84% 4.84% 0.0 0.0%	- 0.0 - 0.01 0.0% 0.0% 0.0% 8.48% 8.48% 0.0 0.0% 192 0.0%	- 0.00 - 0.02 0.0% 0.0% 12.70% 12.70% 0.2 0.0% 523 0.0%	- 0.0 - 0.04 0.0% 0.0% 16.63% 16.63% 0.0 0.0% 757 0.0%	- 0.1 - 0.06 0.0% 0.0% 20.26% 20.26% 20.26% 0.0 0.0% 906	- 0.1 - 0.09 0.0% 0.0% 23.88% 23.88% 23.88% 0.3 0.0% 1,054	77 16.7 1.9 18.63 0.4% 0.3% 26.89% 26.89% 26.89% 83.8 1.8% 1,111 2.2%	77 20.7 2.0 22.68 0.4% 0.3% 29.82% 29.82% 190.7 3.6% 1,231 4.1%	78 0.1 24.7 2.2 27.00 0.5% 0.3% 32.77% 32.77% 32.77% 297.1 5.1% 1,351 5.6%	194 25.1 28.7 4.2 57.99 0.9% 0.6% 36.54% 36.54% 32.3 5.2% 1,491 6.1%	450 143.0 80.2 35.6 258.85 3.0% 1.5% 48.63% 48.63% 273.8 3.1% 1,586 6.1%	484 156.2 102.5 65.1 323.79 3.5% 1.7% 51.02% 51.02% 51.02% 267.0 2.9% 1,556 6.4%	582 170.4 150.5 53.8 374.65 3.8% 1.7% 54.29% 54.29% 273.4 2.8% 1,626 6.6%	624 194.1 146.6 72.5 413.15 3.9% 1.7% 56.08% 56.08% 471.6 4.5% 1,597 8.5%	746 180.3 194.0 74.0 448.27 4.1% 1.7% 58.70% 58.70% 658.0 6.0% 1,638 10.0%	986 236.6 239.6 92.5 568.79 4.9% 1.8% 62.75% 62.75% 660.5 5.7% 1,651 10.6%
Productividad L3 Horas Queue L1 Horas Queue L2 Horas Queue L3 Hora Queue Sistema % Tiempo Cola QH Match Factor= n*(tc+ts)/m*tq Match Factor= (1-%E)*t(-q)/((1-%Q)*tq) Match Factor= 1-%E Horas Queue Crusher % Tiempo en Cola Crusher Troughput Crusher Mina % Tiempo Cola Sistema Total Productividad Operativa	Tn/hr Hr Hr Hr % % % % Hr Tn/hr % Tn/hr	- - - 0.0% 0.0% 3.78% 3.78% - 0.0%	- 0.00 - 0.00 0.0% 0.0% 4.84% 4.84% 0.0 0.0% 44	- 0.0 - 0.01 0.0% 0.0% 8.48% 8.48% 0.0 0.0% 192 0.0% 232	- 0.00 - 0.02 0.0% 0.0% 12.70% 12.70% 0.2 0.0% 523 0.0% 260	- 0.04 0.0% 0.0% 0.0% 16.63% 16.63% 0.0 0.0% 757 0.0% 273	- 0.1 - 0.06 0.0% 0.0% 20.26% 20.26% 0.0 0.0% 906 0.0% 277	- 0.1 - 0.09 0.0% 0.0% 23.88% 23.88% 0.3 0.0% 1,054 0.0% 280	77 16.7 1.9 18.63 0.4% 0.3% 26.89% 26.89% 83.8 1.8% 1,111 2.2% 273	77 20.7 2.0 22.68 0.4% 0.3% 29.82% 29.82% 190.7 3.6% 1,231 4.1% 270	78 0.1 24.7 2.2 27.00 0.5% 0.3% 32.77% 32.77% 32.77% 297.1 5.1% 1,351 5.6% 267	194 25.1 28.7 4.2 57.99 0.9% 0.6% 36.54% 36.54% 32.3 5.2% 1,491 6.1% 268	450 143.0 80.2 35.6 258.85 3.0% 1.5% 48.63% 48.63% 273.8 3.1% 1,586 6.1% 259	484 156.2 102.5 65.1 323.79 3.5% 1.7% 51.02% 51.02% 267.0 2.9% 1,556 6.4% 254	582 170.4 150.5 53.8 374.65 3.8% 1.7% 54.29% 54.29% 273.4 2.8% 1,626 6.6% 254	624 194.1 146.6 72.5 413.15 3.9% 1.7% 56.08% 56.08% 471.6 4.5% 1,597 8.5% 247	746 180.3 194.0 74.0 448.27 4.1% 1.7% 58.70% 58.70% 658.0 6.0% 1,638 10.0% 244	986 236.6 239.6 92.5 568.79 4.9% 1.8% 62.75% 62.75% 660.5 5.7% 1,651 10.6% 245
Productividad L3 Horas Queue L1 Horas Queue L3 Hora Queue Sistema % Tiempo Cola QH Match Factor= n*(tc+ts)/m*tq Match Factor= (1-%E)*t(-q)/((1-%Q)*tq) Match Factor= 1-%E Horas Queue Crusher % Tiempo en Cola Crusher Troughput Crusher Mina % Tiempo Cola Sistema Total Productividad Operativa Perdida de Producción por Queue	Tn/hr Hr Hr Hr % % % % Hr Tn/hr % Tn/hr Tons	- - - 0.0% 0.0% 3.78% 3.78% - 0.0% 0 0.0% 310	- 0.00 - 0.00 0.0% 0.0% 4.84% 4.84% 0.0 0.0% 44 0.0% 198	- 0.0 - 0.01 0.0% 0.0% 8.48% 8.48% 8.0.0 0.0% 192 0.0% 232	- 0.00 - 0.02 0.0% 0.0% 12.70% 12.70% 0.2 0.0% 523 0.0% 260 6	- 0.04 0.0% 0.0% 16.63% 16.63% 0.0 0.0% 757 0.0% 273	- 0.1 - 0.06 0.0% 0.0% 20.26% 20.26% 0.0 0.0% 906 0.0% 277	- 0.1 - 0.09 0.0% 0.0% 23.88% 23.88% 0.3 0.0% 1,054 0.0% 280	77	77 20.7 20.7 2.0 22.68 0.4% 0.3% 29.82% 29.82% 190.7 3.6% 1,231 4.1% 270 6,113	78 0.1 24.7 2.2 27.00 0.5% 0.3% 32.77% 32.77% 297.1 5.1% 1,351 5.6% 267 7,202	194 25.1 28.7 4.2 57.99 0.9% 0.6% 36.54% 36.54% 32.3 5.2% 1,491 6.1% 268 15,547	450 143.0 80.2 35.6 258.85 3.0% 1.5% 48.63% 48.63% 273.8 3.1% 1,586 6.1% 259 66,917	484 156.2 102.5 65.1 323.79 3.5% 1.7% 51.02% 51.02% 267.0 2.9% 1,556 6.4% 254	582 170.4 150.5 53.8 374.65 3.8% 1.7% 54.29% 54.29% 273.4 2.8% 1,626 6.6% 254 94,987	624 194.1 146.6 72.5 413.15 3.9% 1.7% 56.08% 56.08% 471.6 4.5% 1,597 8.5% 247	746 180.3 194.0 74.0 448.27 4.1% 1.7% 58.70% 58.70% 658.0 6.0% 1,638 10.0% 244	986 236.6 239.6 92.5 568.79 4.9% 1.8% 62.75% 62.75% 660.5 5.7% 1,651 10.6% 245
Productividad L3 Horas Queue L1 Horas Queue L3 Hora Queue Sistema % Tiempo Cola QH Match Factor= n*(tc+ts)/m*tq Match Factor= (1-%E)*t(-q)/((1-%Q)*tq) Match Factor= 1-%E Horas Queue Crusher % Tiempo en Cola Crusher Troughput Crusher Mina % Tiempo Cola Sistema Total Productividad Operativa Perdida de Producción por Queue Costo unitario de acarreo	Tn/hr Hr Hr Hr % % % % % Hr Tn/hr % Tn/hr Tons \$/hr		- 0.00 - 0.00 0.0% 0.0% 4.84% 4.84% 0.0 0.0% 44 0.0% 198 1	- 0.0 - 0.01 0.0% 0.0% 8.48% 8.48% 8.00 0.0% 192 0.0% 232 3	- 0.00 - 0.02 0.0% 0.0% 12.70% 12.70% 0.2 0.0% 523 0.0% 260 6 224	- 0.04 0.0% 0.0% 16.63% 16.63% 0.0 0.0% 757 0.0% 273 11	- 0.1 - 0.06 0.0% 0.0% 20.26% 20.26% 0.0 0.0% 906 0.0% 277 17 224	- 0.1 - 0.09 0.0% 0.0% 23.88% 23.88% 0.3 0.0% 1,054 0.0% 280 24	77	77 20.7 20.7 2.0 22.68 0.4% 0.3% 29.82% 29.82% 190.7 3.6% 1,231 4.1% 270 6,113	78 0.1 24.7 2.2 27.00 0.5% 0.3% 32.77% 32.77% 297.1 5.1% 1,351 5.6% 267 7,202	194 25.1 28.7 4.2 57.99 0.9% 0.6% 36.54% 36.54% 32.3 5.2% 1,491 6.1% 268 15,547 224	450 143.0 80.2 35.6 258.85 3.0% 1.5% 48.63% 48.63% 273.8 3.1% 1,586 6.1% 259 66,917	484 156.2 102.5 65.1 323.79 3.5% 1.7% 51.02% 51.02% 267.0 2.9% 1,556 6.4% 254 82,281	582 170.4 150.5 53.8 374.65 3.8% 1.7% 54.29% 54.29% 273.4 2.8% 1,626 6.6% 254 94,987 224	624 194.1 146.6 72.5 413.15 3.9% 1.7% 56.08% 56.08% 471.6 4.5% 1,597 8.5% 247 102,066	746 180.3 194.0 74.0 448.27 4.1% 1.7% 58.70% 58.70% 658.0 6.0% 1,638 10.0% 244 109,287	986 236.6 239.6 92.5 568.79 4.9% 1.8% 62.75% 62.75% 660.5 5.7% 1,651 10.6% 245 139,521
Productividad L3 Horas Queue L1 Horas Queue L3 Hora Queue Sistema % Tiempo Cola QH Match Factor= n*(tc+ts)/m*tq Match Factor= (1-%E)*t(-q)/((1-%Q)*tq) Match Factor= 1-%E Horas Queue Crusher % Tiempo en Cola Crusher Troughput Crusher Mina % Tiempo Cola Sistema Total Productividad Operativa Perdida de Producción por Queue Costo unitario de acarreo Costo unitario de carguio	Tn/hr Hr Hr Hr % % % % % Hr % Tn/hr % Tn/hr Tons \$/hr		- 0.00 - 0.0% - 0.0% - 0.0% - 4.84% - 4.84% - 0.0 - 0.0% - 44 - 0.0% - 198 - 1 - 224 - 560	- 0.00 - 0.01 0.0% 0.0% 8.48% 8.48% 8.48% 0.0 0.0% 192 0.0% 232 3 224 560	- 0.00 - 0.02 0.0% 0.0% 12.70% 12.70% 0.2 0.0% 523 0.0% 260 6 224 560	- 0.04 0.0% 0.0% 16.63% 16.63% 0.0 0.0% 757 0.0% 273 11 224	- 0.1 - 0.06 0.0% 0.0% 20.26% 20.26% 0.0 0.0% 906 0.0% 277 17 224 560	- 0.1 - 0.09 0.0% 0.0% 23.88% 23.88% 0.3 0.0% 1,054 0.0% 280 24 224	77	77 20.7 20.7 2.0 22.68 0.4% 0.3% 29.82% 29.82% 190.7 3.6% 1,231 4.1% 270 6,113 224 560	78 0.1 24.7 2.2 27.00 0.5% 0.3% 32.77% 32.77% 297.1 5.1% 1,351 5.6% 267 7,202 224 560	194 25.1 28.7 4.2 57.99 0.9% 0.6% 36.54% 36.54% 32.3 5.2% 1,491 6.1% 268 15,547 224 560	450 143.0 80.2 35.6 258.85 3.0% 1.5% 48.63% 48.63% 273.8 3.1% 1,586 6.1% 259 66,917 224 560	484 156.2 102.5 65.1 323.79 3.5% 1.7% 51.02% 51.02% 267.0 2.9% 1,556 6.4% 254 82,281 224	582 170.4 150.5 53.8 374.65 3.8% 1.7% 54.29% 54.29% 273.4 2.8% 1,626 6.6% 254 94,987 224 560	624 194.1 146.6 72.5 413.15 3.9% 1.7% 56.08% 56.08% 471.6 4.5% 1,597 8.5% 247 102,066 224	746 180.3 194.0 74.0 448.27 4.1% 1.7% 58.70% 58.70% 658.0 6.0% 1,638 10.0% 244 109,287	986 236.6 239.6 92.5 568.79 4.9% 1.8% 62.75% 62.75% 660.5 5.7% 1,651 10.6% 245 139,521 224 560
Productividad L3 Horas Queue L1 Horas Queue L3 Hora Queue Sistema % Tiempo Cola QH Match Factor= n*(tc+ts)/m*tq Match Factor= (1-%E)*t(-q)/((1-%Q)*tq) Match Factor= 1-%E Horas Queue Crusher % Tiempo en Cola Crusher Troughput Crusher Mina % Tiempo Cola Sistema Total Productividad Operativa Perdida de Producción por Queue Costo unitario de acarreo Costo unitario de carguio Costo acarreo	Tn/hr Hr Hr Hr % % % % % Hr Tn/hr % Tn/hr Tons \$/hr \$/hr \$/hr		- 0.00 - 0.00 0.0% 0.0% 4.84% 4.84% 0.0 0.0% 44 0.0% 198 1 224 560 260,396	- 0.00 - 0.01 0.0% 0.0% 8.48% 8.48% 8.48% 0.0 0.0% 192 0.0% 232 3 224 560 390,594	- 0.00 - 0.02 0.0% 0.0% 12.70% 12.70% 0.2 0.0% 523 0.0% 260 6 224 560 520,792	- 0.04 0.0% 0.0% 16.63% 16.63% 0.0 0.0% 757 0.0% 273 11 224 560 650,989	- 0.1 - 0.06 0.0% 0.0% 20.26% 20.26% 20.26% 0.0 0.0% 906 0.0% 277 17 224 560 781,187	- 0.1 - 0.09 0.0% 0.0% 23.88% 23.88% 0.3 0.0% 1,054 0.0% 280 24 224 560 911,385	77 16.7 1.9 18.63 0.4% 0.3% 26.89% 26.89% 83.8 1.8% 1,111 2.2% 273 5,092 224 560 1,041,583	77 20.7 20.7 2.0 22.68 0.4% 0.3% 29.82% 29.82% 190.7 3.6% 1,231 4.1% 270 6,113 224 560 1,171,781	78 0.1 24.7 2.2 27.00 0.5% 0.3% 32.77% 32.77% 297.1 5.1% 1,351 5.6% 267 7,202 224 560 1,301,979	194 25.1 28.7 4.2 57.99 0.9% 0.6% 36.54% 36.54% 32.3 5.2% 1,491 6.1% 268 15,547 224 560 1,432,177	450 143.0 80.2 35.6 258.85 3.0% 1.5% 48.63% 48.63% 273.8 3.1% 1,586 6.1% 259 66,917 224 560 1,952,968	484 156.2 102.5 65.1 323.79 3.5% 1.7% 51.02% 51.02% 267.0 2.9% 1,556 6.4% 254 82,281 224 560 2,083,166	582 170.4 150.5 53.8 374.65 3.8% 1.7% 54.29% 54.29% 273.4 2.8% 1,626 6.6% 254 94,987 224 560 2,213,364	624 194.1 146.6 72.5 413.15 3.9% 1.7% 56.08% 56.08% 471.6 4.5% 1,597 8.5% 247 102,066 224 560 2,343,562	746 180.3 194.0 74.0 448.27 4.1% 1.7% 58.70% 58.70% 658.0 6.0% 1,638 10.0% 244 109,287 224 560 2,473,760	986 236.6 239.6 92.5 568.79 4.9% 1.8% 62.75% 62.75% 660.5 5.7% 1,651 10.6% 245 139,521 224 560 2,603,958
Productividad L3 Horas Queue L1 Horas Queue L3 Hora Queue Sistema % Tiempo Cola QH Match Factor= n*(tc+ts)/m*tq Match Factor= (1-%E)*t(-q)/((1-%Q)*tq) Match Factor= 1-%E Horas Queue Crusher % Tiempo en Cola Crusher Troughput Crusher Mina % Tiempo Cola Sistema Total Productividad Operativa Perdida de Producción por Queue Costo unitario de acarreo Costo unitario de carguio Costo acarreo Costo Carguio	Tn/hr Hr Hr Hr % % % % % % Hr % Tn/hr % Tn/hr \$/hr \$/hr \$ \$/hr \$ \$/hr		- 0.00 - 0.0% 0.0% 4.84% 4.84% 0.0 0.0% 44 0.0% 198 1 224 560 260,396 976,484	- 0.00 - 0.01 0.0% 0.0% 8.48% 8.48% 8.48% 0.0 0.0% 192 0.0% 232 3 224 560 390,594 976,484	- 0.00 - 0.02 0.0% 0.0% 12.70% 12.70% 0.2 0.0% 523 0.0% 260 6 224 560 520,792 976,484	- 0.04 0.0% 0.0% 16.63% 16.63% 0.0 0.0% 757 0.0% 273 11 224 560 650,989 976,484	- 0.1 - 0.06 0.0% 0.0% 20.26% 20.26% 20.26% 0.0 0.0% 906 0.0% 277 17 224 560 781,187 976,484	- 0.1 - 0.09 0.0% 0.0% 23.88% 23.88% 0.3 0.0% 1,054 0.0% 280 24 224 560 911,385 976,484	77 16.7 1.9 18.63 0.4% 0.3% 26.89% 26.89% 83.8 1.8% 1,111 2.2% 273 5,092 224 560 1,041,583 976,484	77 20.7 20.7 20.0 22.68 0.4% 0.3% 29.82% 29.82% 190.7 3.6% 1,231 4.1% 270 6,113 224 560 1,171,781 976,484	78 0.1 24.7 2.2 27.00 0.5% 0.3% 32.77% 32.77% 297.1 5.1% 1,351 5.6% 267 7,202 224 560 1,301,979 976,484	194 25.1 28.7 4.2 57.99 0.9% 0.6% 36.54% 36.54% 332.3 5.2% 1,491 6.1% 268 15,547 224 560 1,432,177 976,484	450 143.0 80.2 35.6 258.85 3.0% 1.5% 48.63% 48.63% 273.8 3.1% 1,586 6.1% 259 66,917 224 560 1,952,968 976,484	484 156.2 102.5 65.1 323.79 3.5% 1.7% 51.02% 51.02% 267.0 2.9% 1,556 6.4% 254 82,281 224 560 2,083,166 976,484	582 170.4 150.5 53.8 374.65 3.8% 1.7% 54.29% 54.29% 273.4 2.8% 1,626 6.6% 254 94,987 224 560 2,213,364 976,484	624 194.1 146.6 72.5 413.15 3.9% 1.7% 56.08% 56.08% 471.6 4.5% 1,597 8.5% 247 102,066 224 560 2,343,562 976,484	746 180.3 194.0 74.0 448.27 4.1% 1.7% 58.70% 58.70% 658.0 6.0% 1,638 10.0% 244 109,287 224 560 2,473,760 976,484	986 236.6 239.6 92.5 568.79 4.9% 1.8% 62.75% 62.75% 660.5 5.7% 1,651 10.6% 245 139,521 224 560 2,603,958 976,484
Productividad L3 Horas Queue L1 Horas Queue L3 Hora Queue Sistema % Tiempo Cola QH Match Factor= n*(tc+ts)/m*tq Match Factor= (1-%E)*t(-q)/((1-%Q)*tq) Match Factor= 1-%E Horas Queue Crusher % Tiempo en Cola Crusher Troughput Crusher Mina % Tiempo Cola Sistema Total Productividad Operativa Perdida de Producción por Queue Costo unitario de acarreo Costo unitario de carguio Costo Carguio Costo Carguio Costo Total	Tn/hr Hr Hr Hr % % % % % % Hr % Tn/hr % Tn/hr \$/hr \$/hr \$ \$ \$ \$ \$		- 0.00 - 0.0% - 0.0% - 0.0% - 4.84% - 4.84% - 0.0 - 0.0% - 44 - 0.0% - 198 - 1 - 224 - 560 - 260,396 - 976,484 - 1,236,880	- 0.00 - 0.01 0.0% 0.0% 8.48% 8.48% 8.48% 0.0 0.0% 192 0.0% 232 3 224 560 390,594 976,484 1,367,078	- 0.00 -	- 0.04 0.0% 0.0% 16.63% 16.63% 0.0 0.0% 757 0.0% 273 11 224 560 650,989 976,484 1,627,474	- 0.1 - 0.06 0.0% 0.0% 20.26% 20.26% 20.26% 0.0 0.0% 906 0.0% 277 17 224 560 781,187 976,484 1,757,672	- 0.1 - 0.09 0.0% 0.0% 23.88% 23.88% 0.3 0.0% 1,054 0.0% 280 24 224 560 911,385 976,484 1,887,869	77 16.7 1.9 18.63 0.4% 0.3% 26.89% 26.89% 83.8 1.8% 1,111 2.2% 273 5,092 224 560 1,041,583 976,484 2,018,067	77 20.7 20.7 2.0 22.68 0.4% 0.3% 29.82% 29.82% 190.7 3.6% 1,231 4.1% 270 6,113 224 560 1,171,781 976,484 2,148,265	78 0.1 24.7 2.2 27.00 0.5% 0.3% 32.77% 32.77% 297.1 5.1% 1,351 5.6% 267 7,202 224 560 1,301,979 976,484 2,278,463	194 25.1 28.7 4.2 57.99 0.9% 0.6% 36.54% 36.54% 332.3 5.2% 1,491 6.1% 268 15,547 224 560 1,432,177 976,484 2,408,661	450 143.0 80.2 35.6 258.85 3.0% 1.5% 48.63% 48.63% 273.8 3.1% 1,586 6.1% 259 66,917 224 560 1,952,968 976,484 2,929,453	484 156.2 102.5 65.1 323.79 3.5% 1.7% 51.02% 51.02% 267.0 2.9% 1,556 6.4% 254 82,281 224 560 2,083,166 976,484 3,059,651	582 170.4 150.5 53.8 374.65 3.8% 1.7% 54.29% 54.29% 273.4 2.8% 1,626 6.6% 254 94,987 224 560 2,213,364 976,484 3,189,848	624 194.1 146.6 72.5 413.15 3.9% 1.7% 56.08% 56.08% 471.6 4.5% 1,597 8.5% 247 102,066 224 560 2,343,562 976,484 3,320,046	746 180.3 194.0 74.0 448.27 4.1% 1.7% 58.70% 58.70% 658.0 6.0% 1,638 10.0% 244 109,287 224 560 2,473,760 976,484 3,450,244	986 236.6 239.6 92.5 568.79 4.9% 1.8% 62.75% 62.75% 660.5 5.7% 1,651 10.6% 245 139,521 224 560 2,603,958 976,484 3,580,442
Productividad L3 Horas Queue L1 Horas Queue L3 Hora Queue Sistema % Tiempo Cola QH Match Factor= n*(tc+ts)/m*tq Match Factor= (1-%E)*t(-q)/((1-%Q)*tq) Match Factor= 1-%E Horas Queue Crusher % Tiempo en Cola Crusher Troughput Crusher Mina % Tiempo Cola Sistema Total Productividad Operativa Perdida de Producción por Queue Costo unitario de acarreo Costo unitario de carguio Costo Carguio Costo Carguio Costo Total Costo de carguio y acarreo	Tn/hr Hr Hr Hr % % % % % % Hr % Tn/hr % Tn/hr \$ \$/hr \$ \$/hr \$ \$		- 0.00 - 0.0% - 0.0% - 0.0% - 4.84% - 4.84% - 0.0 - 0.0% - 44 - 0.0% - 198 - 1 - 224 - 560 - 260,396 - 976,484 - 1,236,880 - 5.364	- 0.00 - 0.01 0.0% 0.0% 8.48% 8.48% 8.48% 0.0 0.0% 192 0.0% 232 3 224 560 390,594 976,484 1,367,078 3.385	- 0.00 - 0.00 - 0.00 - 0.00% - 0.00% - 12.70% - 12.70% - 0.20 - 0.00% - 523 - 0.00% - 260 - 6 - 224 - 560 - 520,792 - 976,484 - 1,497,276 - 2.474	- 0.04 0.0% 0.0% 16.63% 16.63% 0.0 0.0% 757 0.0% 273 11 224 560 650,989 976,484 1,627,474 2.055	- 0.1 - 0.06 0.0% 0.0% 20.26% 20.26% 20.26% 0.0 0.0% 906 0.0% 277 17 224 560 781,187 976,484 1,757,672 1.821	- 0.1 - 0.09 0.0% 0.0% 23.88% 23.88% 0.3 0.0% 1,054 0.0% 280 24 224 560 911,385 976,484 1,887,869 1.659	77 16.7 1.9 18.63 0.4% 0.3% 26.89% 26.89% 83.8 1.8% 1,111 2.2% 273 5,092 224 560 1,041,583 976,484 2,018,067 1.588	77 20.7 2.0 22.68 0.4% 0.3% 29.82% 29.82% 29.82% 190.7 3.6% 1,231 4.1% 270 6,113 224 560 1,171,781 976,484 2,148,265 1.523	78 0.1 24.7 2.2 27.00 0.5% 0.3% 32.77% 32.77% 297.1 5.1% 1,351 5.6% 267 7,202 224 560 1,301,979 976,484 2,278,463 1.470	194 25.1 28.7 4.2 57.99 0.9% 0.6% 36.54% 36.54% 332.3 5.2% 1,491 6.1% 268 15,547 224 560 1,432,177 976,484 2,408,661 1.405	450 143.0 80.2 35.6 258.85 3.0% 1.5% 48.63% 48.63% 273.8 3.1% 1,586 6.1% 259 66,917 224 560 1,952,968 976,484 2,929,453 1.300	484 156.2 102.5 65.1 323.79 3.5% 1.7% 51.02% 51.02% 267.0 2.9% 1,556 6.4% 254 82,281 224 560 2,083,166 976,484 3,059,651 1.295	582 170.4 150.5 53.8 374.65 3.8% 1.7% 54.29% 54.29% 273.4 2.8% 1,626 6.6% 254 94,987 224 560 2,213,364 976,484 3,189,848 1.273	624 194.1 146.6 72.5 413.15 3.9% 1.7% 56.08% 56.08% 471.6 4.5% 1,597 8.5% 247 102,066 224 560 2,343,562 976,484 3,320,046 1.285	746 180.3 194.0 74.0 448.27 4.1% 1.7% 58.70% 58.70% 658.0 6.0% 1,638 10.0% 244 109,287 224 560 2,473,760 976,484 3,450,244 1.281	986 236.6 239.6 92.5 568.79 4.9% 1.8% 62.75% 62.75% 660.5 5.7% 1,651 10.6% 245 139,521 224 560 2,603,958 976,484 3,580,442 1.256
Productividad L3 Horas Queue L1 Horas Queue L2 Horas Queue Sistema % Tiempo Cola QH Match Factor= n*(tc+ts)/m*tq Match Factor= (1-%E)*t(-q)/((1-%Q)*tq) Match Factor= 1-%E Horas Queue Crusher % Tiempo en Cola Crusher Troughput Crusher Mina % Tiempo Cola Sistema Total Productividad Operativa Perdida de Producción por Queue Costo unitario de acarreo Costo unitario de carguio Costo Carguio Costo Total Costo de carguio y acarreo Costo unitario 2	Tn/hr Hr Hr Hr W % % % % % % Hr % Tn/hr % Tn/hr \$ \$/hr \$ \$/hr \$ \$/hr \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		- 0.00 - 0.00 0.0% 0.0% 4.84% 4.84% 0.0 0.0% 44 0.0% 198 1 224 560 260,396 976,484 1,236,880 5.364	- 0.00 - 0.01 0.0% 0.0% 8.48% 8.48% 8.48% 0.0 0.0% 192 0.0% 232 3 224 560 390,594 976,484 1,367,078 3.385 3.39	- 0.00 -	- 0.04 0.0% 0.0% 16.63% 16.63% 0.0 0.0% 757 0.0% 273 11 224 560 650,989 976,484 1,627,474 2.055	- 0.1 - 0.06 0.0% 0.0% 20.26% 20.26% 20.26% 0.0 0.0% 906 0.0% 277 17 224 560 781,187 976,484 1,757,672 1.821 1.82	- 0.1 - 0.09 0.0% 0.0% 23.88% 23.88% 0.3 0.0% 1,054 0.0% 280 24 224 560 911,385 976,484 1,887,869 1.669	77 16.7 1.9 18.63 0.4% 0.3% 26.89% 26.89% 83.8 1.8% 1,111 2.2% 273 5,092 224 560 1,041,583 976,484 2,018,067 1.588 1.59	77 20.7 20.7 20.0 22.68 0.4% 0.3% 29.82% 29.82% 29.82% 190.7 3.6% 1,231 4.1% 270 6,113 224 560 1,171,781 976,484 2,148,265 1.523 1.52	78 0.1 24.7 2.2 27.00 0.5% 0.3% 32.77% 32.77% 32.77% 297.1 5.1% 1,351 5.6% 267 7,202 224 560 1,301,979 976,484 2,278,463 1.470 1.47	194 25.1 28.7 4.2 57.99 0.9% 0.6% 36.54% 36.54% 332.3 5.2% 1,491 6.1% 268 15,547 224 560 1,432,177 976,484 2,408,661 1.405 1.41	450 143.0 80.2 35.6 258.85 3.0% 1.5% 48.63% 48.63% 273.8 3.1% 1,586 6.1% 259 66,917 224 560 1,952,968 976,484 2,929,453 1.300 1.30	484 156.2 102.5 65.1 323.79 3.5% 1.7% 51.02% 51.02% 267.0 2.9% 1,556 6.4% 254 82,281 224 560 2,083,166 976,484 3,059,651 1.295 1.30	582 170.4 150.5 53.8 374.65 3.8% 1.7% 54.29% 54.29% 273.4 2.8% 1,626 6.6% 254 94,987 224 560 2,213,364 976,484 3,189,848 1.273 1.27	624 194.1 146.6 72.5 413.15 3.9% 1.7% 56.08% 56.08% 471.6 4.5% 1,597 8.5% 247 102,066 224 560 2,343,562 976,484 3,320,046 1.285 1.29	746 180.3 194.0 74.0 448.27 4.1% 1.7% 58.70% 58.70% 658.0 6.0% 1,638 10.0% 244 109,287 224 560 2,473,760 976,484 3,450,244 1.281	986 236.6 239.6 92.5 568.79 4.9% 1.8% 62.75% 62.75% 660.5 5.7% 1,651 10.6% 245 139,521 224 560 2,603,958 976,484 3,580,442 1.256 1.26
Productividad L3 Horas Queue L1 Horas Queue L3 Hora Queue Sistema % Tiempo Cola QH Match Factor= n*(tc+ts)/m*tq Match Factor= (1-%E)*t(-q)/((1-%Q)*tq) Match Factor= 1-%E Horas Queue Crusher % Tiempo en Cola Crusher Troughput Crusher Mina % Tiempo Cola Sistema Total Productividad Operativa Perdida de Producción por Queue Costo unitario de acarreo Costo unitario de carguio Costo Carguio Costo Total Costo de carguio y acarreo Costo unitario 2 Costo unitario 3	Tn/hr Hr Hr Hr W % % % % % % Hr % Tn/hr Tons \$/hr \$/hr \$/hr \$/hr \$/hr \$/hr \$/hr \$/hr		- 0.00 - 0.0% - 0.0% - 0.0% - 4.84% - 4.84% - 0.0 - 0.0% - 44 - 0.0% - 198 - 1 - 224 - 560 - 260,396 - 976,484 - 1,236,880 - 5.364 - 5.36 - 1.13	- 0.00 - 0.01 0.0% 0.0% 8.48% 8.48% 8.48% 0.0 0.0% 192 0.0% 232 3 224 560 390,594 976,484 1,367,078 3.385 3.39 0.97	- 0.00 -	- 0.04 0.0% 0.0% 16.63% 16.63% 0.0 0.0% 757 0.0% 273 11 224 560 650,989 976,484 1,627,474 2.055 2.06 0.82	- 0.1 - 0.06 0.0% 0.0% 20.26% 20.26% 0.0 0.0% 906 0.0% 277 17 224 560 781,187 976,484 1,757,672 1.821 1.82 0.81	- 0.1 - 0.09 0.0% 0.0% 23.88% 23.88% 0.3 0.0% 1,054 0.0% 280 24 224 560 911,385 976,484 1,887,869 1.659 1.666 0.80	77 16.7 1.9 18.63 0.4% 0.3% 26.89% 26.89% 83.8 1.8% 1,111 2.2% 273 5,092 224 560 1,041,583 976,484 2,018,067 1.588 1.59 0.82	77 20.7 20.7 20.0 22.68 0.4% 0.3% 29.82% 29.82% 29.82% 190.7 3.6% 1,231 4.1% 270 6,113 224 560 1,171,781 976,484 2,148,265 1.523 1.52 0.83	78 0.1 24.7 2.2 27.00 0.5% 0.3% 32.77% 32.77% 32.77% 297.1 5.1% 1,351 5.6% 267 7,202 224 560 1,301,979 976,484 2,278,463 1.470 1.47 0.84	194 25.1 28.7 4.2 57.99 0.9% 0.6% 36.54% 36.54% 332.3 5.2% 1,491 6.1% 268 15,547 224 560 1,432,177 976,484 2,408,661 1.405 1.41 0.84	450 143.0 80.2 35.6 258.85 3.0% 1.5% 48.63% 48.63% 48.63% 273.8 3.1% 1,586 6.1% 259 66,917 224 560 1,952,968 976,484 2,929,453 1.300 1.30 0.87	484 156.2 102.5 65.1 323.79 3.5% 1.7% 51.02% 51.02% 267.0 2.9% 1,556 6.4% 254 82,281 224 560 2,083,166 976,484 3,059,651 1.295 1.30 0.88	582 170.4 150.5 53.8 374.65 3.8% 1.7% 54.29% 54.29% 273.4 2.8% 1,626 6.6% 254 94,987 224 560 2,213,364 976,484 3,189,848 1.273 1.27 0.88	624 194.1 146.6 72.5 413.15 3.9% 1.7% 56.08% 56.08% 471.6 4.5% 1,597 8.5% 247 102,066 224 560 2,343,562 976,484 3,320,046 1.285 1.29 0.91	746 180.3 194.0 74.0 448.27 4.1% 1.7% 58.70% 58.70% 658.0 6.0% 1,638 10.0% 244 109,287 224 560 2,473,760 976,484 3,450,244 1.281 1.28 0.92	986 236.6 239.6 92.5 568.79 4.9% 1.8% 62.75% 62.75% 660.5 5.7% 1,651 10.6% 245 139,521 224 560 2,603,958 976,484 3,580,442 1.256 1.266 0.91
Productividad L3 Horas Queue L1 Horas Queue L3 Hora Queue Sistema % Tiempo Cola QH Match Factor= n*(tc+ts)/m*tq Match Factor= (1-%E)*t(-q)/((1-%Q)*tq) Match Factor= 1-%E Horas Queue Crusher % Tiempo en Cola Crusher Troughput Crusher Mina % Tiempo Cola Sistema Total Productividad Operativa Perdida de Producción por Queue Costo unitario de acarreo Costo unitario de carguio Costo Carguio Costo Total Costo de carguio y acarreo Costo unitario 2 Costo unitario 3 Ciclo de Carguio Promedio	Tn/hr Hr Hr Hr % % % % % Hr % Tn/hr Tons \$/hr		- 0.00 - 0.0% - 0.0% - 0.0% - 4.84% - 4.84% - 4.84% - 0.0 - 0.0% - 44 - 0.0% - 198 - 1 - 224 - 560 - 260,396 - 976,484 - 1,236,880 - 5.364 - 5.36 - 1.13 - 3.25	- 0.00 - 0.01 0.0% 0.0% 8.48% 8.48% 8.48% 0.0 0.0% 192 0.0% 232 3 224 560 390,594 976,484 1,367,078 3.385 3.39 0.97 3.25	- 0.00 -	- 0.04 0.0% 0.0% 16.63% 16.63% 0.0 0.0% 757 0.0% 273 11 224 560 650,989 976,484 1,627,474 2.055 2.06 0.82 3.25	- 0.1 - 0.06 0.0% 0.0% 20.26% 20.26% 20.26% 0.0 0.0% 906 0.0% 277 17 224 560 781,187 976,484 1,757,672 1.821 1.82 0.81 3.25	- 0.1 - 0.09 0.0% 0.0% 23.88% 23.88% 0.3 0.0% 1,054 0.0% 280 24 224 560 911,385 976,484 1,887,869 1.659 1.666 0.80 3.25	77 16.7 1.9 18.63 0.4% 0.3% 26.89% 26.89% 83.8 1.8% 1,111 2.2% 273 5,092 224 560 1,041,583 976,484 2,018,067 1.588 1.59 0.82 3.28	77 20.7 2.0 22.68 0.4% 0.3% 29.82% 29.82% 190.7 3.6% 1,231 4.1% 270 6,113 224 560 1,171,781 976,484 2,148,265 1.523 1.52 0.83 3.27	78 0.1 24.7 2.2 27.00 0.5% 0.3% 32.77% 32.77% 32.77% 297.1 5.1% 1,351 5.6% 267 7,202 224 560 1,301,979 976,484 2,278,463 1.470 0.84 3.27	194 25.1 28.7 4.2 57.99 0.9% 0.6% 36.54% 36.54% 332.3 5.2% 1,491 6.1% 268 15,547 224 560 1,432,177 976,484 2,408,661 1.405 1.41 0.84 3.30	450 143.0 80.2 35.6 258.85 3.0% 1.5% 48.63% 48.63% 48.63% 273.8 3.1% 1,586 6.1% 259 66,917 224 560 1,952,968 976,484 2,929,453 1.300 1.30 0.87 3.34	484 156.2 102.5 65.1 323.79 3.5% 1.7% 51.02% 51.02% 267.0 2.9% 1,556 6.4% 254 82,281 224 560 2,083,166 976,484 3,059,651 1.295 1.30 0.88 3.34	582 170.4 150.5 53.8 374.65 3.8% 1.7% 54.29% 54.29% 273.4 2.8% 1,626 6.6% 254 94,987 224 560 2,213,364 976,484 3,189,848 1.273 1.27 0.88 3.36	624 194.1 146.6 72.5 413.15 3.9% 1.7% 56.08% 56.08% 471.6 4.5% 1,597 8.5% 247 102,066 224 560 2,343,562 976,484 3,320,046 1.285 1.29 0.91 3.36	746 180.3 194.0 74.0 448.27 4.1% 1.7% 58.70% 58.70% 658.0 6.0% 1,638 10.0% 244 109,287 224 560 2,473,760 976,484 3,450,244 1.281 1.28 0.92 3.38	986 236.6 239.6 92.5 568.79 4.9% 1.8% 62.75% 62.75% 660.5 5.7% 1,651 10.6% 245 139,521 224 560 2,603,958 976,484 3,580,442 1.256 0.91 3.41
Productividad L3 Horas Queue L1 Horas Queue L2 Horas Queue Sistema % Tiempo Cola QH Match Factor= n*(tc+ts)/m*tq Match Factor= 1-%E)*t(-q)/((1-%Q)*tq) Match Factor= 1-%E Horas Queue Crusher % Tiempo en Cola Crusher Troughput Crusher Mina % Tiempo Cola Sistema Total Productividad Operativa Perdida de Producción por Queue Costo unitario de acarreo Costo unitario de carguio Costo Carguio Costo Total Costo de carguio y acarreo Costo unitario 2 Costo unitario 3 Ciclo de Carguio Promedio Ciclo de Acarreo Mina Metedo Antiguo	Tn/hr Hr Hr Hr % % % % % Hr % Tn/hr Tons \$/hr \$/hr		- 0.00 - 0.00 - 0.0% - 0.0% - 4.84% - 4.84% - 4.84% - 0.0 - 0.0% - 44 - 0.0% - 198 - 1 - 224 - 560 - 260,396 - 976,484 - 1,236,880 - 5.364 - 5.36 - 1.13 - 3.25 - 49.71	- 0.00 - 0.01 0.0% 0.0% 8.48% 8.48% 8.48% 0.0 0.0% 192 0.0% 232 3 224 560 390,594 976,484 1,367,078 3.385 3.39 0.97 3.25 43.62	- 0.00 - 0.02 0.0% 0.0% 12.70% 12.70% 0.2 0.0% 523 0.0% 260 6 224 560 520,792 976,484 1,497,276 2.474 0.86 3.25 39.86	- 0.04 0.0% 0.0% 16.63% 16.63% 0.0 0.0% 757 0.0% 273 11 224 560 650,989 976,484 1,627,474 2.055 2.06 0.82 3.25 38.43	- 0.1 - 0.06 0.0% 0.0% 20.26% 20.26% 20.26% 0.0 0.0% 906 0.0% 277 17 224 560 781,187 976,484 1,757,672 1.821 1.82 0.81 3.25 37.92	- 0.1 - 0.09 0.0% 0.0% 23.88% 23.88% 0.3 0.0% 1,054 0.0% 280 24 224 560 911,385 976,484 1,887,869 1.659 1.666 0.80 3.25 37.57	77 16.7 1.9 18.63 0.4% 0.3% 26.89% 26.89% 83.8 1.8% 1,111 2.2% 273 5,092 224 560 1,041,583 976,484 2,018,067 1.588 1.59 0.82 3.28 38.41	77 20.7 2.0 22.68 0.4% 0.3% 29.82% 29.82% 190.7 3.6% 1,231 4.1% 270 6,113 224 560 1,171,781 976,484 2,148,265 1.523 1.52 0.83 3.27 38.86	78 0.1 24.7 2.2 27.00 0.5% 0.3% 32.77% 32.77% 32.77% 297.1 5.1% 1,351 5.6% 267 7,202 224 560 1,301,979 976,484 2,278,463 1.470 0.84 3.27 39.22	194 25.1 28.7 4.2 57.99 0.9% 0.6% 36.54% 36.54% 332.3 5.2% 1,491 6.1% 268 15,547 224 560 1,432,177 976,484 2,408,661 1.405 1.41 0.84 3.30 39.27	450 143.0 80.2 35.6 258.85 3.0% 1.5% 48.63% 48.63% 48.63% 273.8 3.1% 1,586 6.1% 259 66,917 224 560 1,952,968 976,484 2,929,453 1.300 1.30 0.87 3.34 41.19	484 156.2 102.5 65.1 323.79 3.5% 1.7% 51.02% 51.02% 267.0 2.9% 1,556 6.4% 254 82,281 224 560 2,083,166 976,484 3,059,651 1.295 1.30 0.88 3.34 41.95	582 170.4 150.5 53.8 374.65 3.8% 1.7% 54.29% 54.29% 273.4 2.8% 1,626 6.6% 254 94,987 224 560 2,213,364 976,484 3,189,848 1.273 1.27 0.88 3.36 42.15	624 194.1 146.6 72.5 413.15 3.9% 1.7% 56.08% 56.08% 471.6 4.5% 1,597 8.5% 247 102,066 224 560 2,343,562 976,484 3,320,046 1.285 1.29 0.91 3.36 43.15	746 180.3 194.0 74.0 448.27 4.1% 1.7% 58.70% 58.70% 658.0 6.0% 1,638 10.0% 244 109,287 224 560 2,473,760 976,484 3,450,244 1.281 1.28 0.92 3.38 43.72	986 236.6 239.6 92.5 568.79 4.9% 1.8% 62.75% 62.75% 660.5 5.7% 1,651 10.6% 245 139,521 224 560 2,603,958 976,484 3,580,442 1.256 0.91 3.41 43.86
Productividad L3 Horas Queue L1 Horas Queue L2 Horas Queue Sistema % Tiempo Cola QH Match Factor= n*(tc+ts)/m*tq Match Factor= (1-%E)*t(-q)/((1-%Q)*tq) Match Factor= 1-%E Horas Queue Crusher % Tiempo en Cola Crusher Troughput Crusher Mina % Tiempo Cola Sistema Total Productividad Operativa Perdida de Producción por Queue Costo unitario de acarreo Costo unitario de carguio Costo acarreo Costo Carguio Costo Total Costo de carguio y acarreo Costo unitario 2 Costo unitario 3 Ciclo de Carguio Promedio	Tn/hr Hr Hr Hr % % % % % Hr % Tn/hr Tons \$/hr		- 0.00 - 0.0% - 0.0% - 0.0% - 4.84% - 4.84% - 4.84% - 0.0 - 0.0% - 44 - 0.0% - 198 - 1 - 224 - 560 - 260,396 - 976,484 - 1,236,880 - 5.364 - 5.36 - 1.13 - 3.25	- 0.00 - 0.01 0.0% 0.0% 8.48% 8.48% 8.48% 0.0 0.0% 192 0.0% 232 3 224 560 390,594 976,484 1,367,078 3.385 3.39 0.97 3.25	- 0.00 -	- 0.04 0.0% 0.0% 16.63% 16.63% 0.0 0.0% 757 0.0% 273 11 224 560 650,989 976,484 1,627,474 2.055 2.06 0.82 3.25	- 0.1 - 0.06 0.0% 0.0% 20.26% 20.26% 20.26% 0.0 0.0% 906 0.0% 277 17 224 560 781,187 976,484 1,757,672 1.821 1.82 0.81 3.25	- 0.1 - 0.09 0.0% 0.0% 23.88% 23.88% 0.3 0.0% 1,054 0.0% 280 24 224 560 911,385 976,484 1,887,869 1.659 1.666 0.80 3.25	77 16.7 1.9 18.63 0.4% 0.3% 26.89% 26.89% 83.8 1.8% 1,111 2.2% 273 5,092 224 560 1,041,583 976,484 2,018,067 1.588 1.59 0.82 3.28	77 20.7 2.0 22.68 0.4% 0.3% 29.82% 29.82% 190.7 3.6% 1,231 4.1% 270 6,113 224 560 1,171,781 976,484 2,148,265 1.523 1.52 0.83 3.27	78 0.1 24.7 2.2 27.00 0.5% 0.3% 32.77% 32.77% 32.77% 297.1 5.1% 1,351 5.6% 267 7,202 224 560 1,301,979 976,484 2,278,463 1.470 0.84 3.27	194 25.1 28.7 4.2 57.99 0.9% 0.6% 36.54% 36.54% 332.3 5.2% 1,491 6.1% 268 15,547 224 560 1,432,177 976,484 2,408,661 1.405 1.41 0.84 3.30	450 143.0 80.2 35.6 258.85 3.0% 1.5% 48.63% 48.63% 48.63% 273.8 3.1% 1,586 6.1% 259 66,917 224 560 1,952,968 976,484 2,929,453 1.300 1.30 0.87 3.34	484 156.2 102.5 65.1 323.79 3.5% 1.7% 51.02% 51.02% 267.0 2.9% 1,556 6.4% 254 82,281 224 560 2,083,166 976,484 3,059,651 1.295 1.30 0.88 3.34	582 170.4 150.5 53.8 374.65 3.8% 1.7% 54.29% 54.29% 273.4 2.8% 1,626 6.6% 254 94,987 224 560 2,213,364 976,484 3,189,848 1.273 1.27 0.88 3.36	624 194.1 146.6 72.5 413.15 3.9% 1.7% 56.08% 56.08% 471.6 4.5% 1,597 8.5% 247 102,066 224 560 2,343,562 976,484 3,320,046 1.285 1.29 0.91 3.36	746 180.3 194.0 74.0 448.27 4.1% 1.7% 58.70% 58.70% 658.0 6.0% 1,638 10.0% 244 109,287 224 560 2,473,760 976,484 3,450,244 1.281 1.28 0.92 3.38	986 236.6 239.6 92.5 568.79 4.9% 1.8% 62.75% 62.75% 660.5 5.7% 1,651 10.6% 245 139,521 224 560 2,603,958 976,484 3,580,442 1.256 0.91 3.41