

CHAPTER 6

CONCLUSION

Based on analysis on chapter 5, writer can conclude that the new policy is better than the current policy and it's reduce more than 50% of damaged goods cost in the first running month (and it will be more efficient in the next month because the level of stock in the first month is still affected by the old company policy).

The new order quantity and the reorder point for each product are in the table 6.1.

Table 6.1. Order Quantity and Reorder Point of the Better Simulation Result

No.	Item Number	Order	Quantity	Reorder Point (pcs)
		(pcs)	(boxes)	
1	100014	372	31	82
2	100016	162	27	44
3	100017	162	27	24
4	100018	156	13	21
5	100019	90	15	15
6	100020	180	30	33
7	100021	252	21	34
8	100022	126	21	28
9	100023	270	45	71
10	100024	420	35	86
11	100027	240	40	53
12	100029	174	29	56
13	100030	396	66	158
14	100031	540	45	152
15	100032	96	16	18
16	100033	228	38	56

Table 6.1. continued

No.	Item Number	Order	Quantity	Reorder Point (pcs)
		(pcs)	(boxes)	
17	100034	288	24	49
18	100250	876	73	628
19	100251	240	20	31
20	100259	516	43	179
21	100260	324	27	44
22	100261	300	12	40
23	100263	216	28	30
24	100264	348	29	78
25	101795	456	19	61
26	101796	456	19	61
27	101797	528	22	87
28	101807	408	17	53
29	102016	192	32	37
30	102038	204	17	28
31	112219	168	28	28
32	116067	144	12	26

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PRODUCT FLOW DECEMBER 2006

Item	Description		Tanggal							
			1	2	3	4	1	2	3	4
			Remain	Out	Remain	Out	Remain	Out	Remain	Out
100014	.JUNGLE JUS. 12 x 500ML	JUICE APPLE		56		24				70
100016	.JUNGLE JUS.6x2 LTR	JUICE LEMON		12		6				24
100017	.JUNGLE JUS.6x1 LTR	JUICE LEMON		7		4				12
100018	.JUNGLE JUS.12 x 500 ML	JUICE LEMON		3						6
100019	.JUNGLE JUS.6x2 LTR	JUICE MANGO		4		2				13
100020	.JUNGLE JUS.6x1 LTR	JUICE MANGO				8				
100021	.JUNGLE JUS.12 x 500 ML	JUICE MANGO		12		12				8
100022	.JUNGLE JUS.6x2 LTR	JUICE ORANGE		6						12
100023	.JUNGLE JUS.6x1 LTR	JUICE ORANGE		12		28				24
100024	.JUNGLE JUS.12 x 500 ML	JUICE ORANGE		60		48				24
100027	.JUNGLE JUS.6x1 LTR	JUICE PINEAPPLE		24		6				38
100029	.JUNGLE JUS.6x2 LTR	JUICE PINK GUAVA		20		8				24
100030	.JUNGLE JUS.6x1 LTR	JUICE PINK GUAVA		60		54				124
100031	.JUNGLE JUS.12 x 500 ML	JUICE PINK GUAVA		60		56				108
100032	.JUNGLE JUS.6x2 LTR	JUICE SIRSAK		12		19				6
100033	.JUNGLE JUS.6x1 LTR	JUICE SIRSAK		60		12				38
100034	.JUNGLE JUS.12 x500 ML	JUICE SIRSAK		12		7				24
100250	.DIAMOND.12x1 Lt	MILK FRESH - PLAIN FROZEN		600		440				284
100251	.DIAMOND.12x500 ML	MILK FRESH - PLAIN FROZEN		12		6				14
100259	.DIAMOND.12x1 Lt	MILK FRESH CHOCOLATE		84		61				35
100260	.DIAMOND.12x500 ML	MILK FRESH CHOCOLATE - FROZEN		20		12				6
100261	.DIAMOND.24x200 ML	MILK FRESH CHOCOLATE - FROZEN		24		12				12
100263	.DIAMOND.12x1 Lt	MILK FRESH CHOCOLATE - FROZEN		18		12				33
100264	.DIAMOND.12x1 Lt	MILK FRESH NON FAT - FROZEN		25		12				36
101795	.JUNGLE JUS.24 X 200 ML	JUICE ORANGE		24		26				52
101796	.JUNGLE JUS.24 X 200 ML	JUICE APPLE		25		18				33
101797	.JUNGLE JUS.24 X 200 ML	JUICE PINK GUAVA		48		24				26
101807	.JUNGLE JUS.24 X 200 ML	JUICE SIRSAK		28		12				7
102016	.JUNGLE JUS.6X1 LT	JUICE GRAPE		10		8				6
102038	.JUNGLE JUS.12 X 500 ML	JUICE GRAPE		12						14
112219	.JUNGLE JUS.6X1 LT	JUICE LEMON CARROT		14		3				12
116067	.JUNGLE JUS.6X1 LT	JUICE LYCHEE		6		4				8

5		6		7		8		9		10		11		12	
Remain	Out	Remain	Out	Remain	Out	Remain	Out	Remain	Out	Remain	Out	Remain	Out	Remain	Out
18		180	36		20	180	36		12			46	420	27	
12			6		16		12		24			12	90	6	
14			4		12		8		14			15		3	
3			3		7		2		12			4	36	1	
			2		11		4		6			1		3	
6			3		1		2		3			7		12	
			14		6				18			3		1	
11		30	6		8	30	12		3			7		8	
20		60	21		17	120	14		48			24		12	
12		60	17		32	180	45		12			21	420	25	
13			6		5	120	4		23			24			
35			10		6	60	12		18			11	30	17	
36		120	73		108	240	72		71			12	120	42	
24		60	49		98	240	37		84			30	420	23	
20			6		3		4		8			15		12	
23		120	20		6	120	36		12			12		18	
			10		13	60	6		29			21		14	
196			108		224	1200	176		184			193	960	240	
8			7		12	60	6					21		6	
88		300	48		37	240	90		96			64	300	72	
8			16		11	180	9		12			18		8	
7			12		6		24		14			24		12	
5			18		16		12		15			14	240	12	
8		60	12		28	60	22		8			32	60	14	
8			24		1	240	24		27			49			
3		240	24		24	120			29			24		24	
24		240	24		24	120	28		34			24		26	
12		240	24		24	240	12		31			24		24	
7		90	8		1	60	7		9			6		4	
			8		12				10			6		2	
8		60	8		13	150	16		6			21		13	
6			6		11		12		4			18		1	

13		14		15		16		17		18		19		20		
Remain	Out	Remain	Out	Remain	Out	Remain	Out	Remain	Out	Remain	Out	Remain	Out	Remain	Out	
	30		60		18		120		12		36		48		60	12
	6		9		12		30		14		6		3		60	24
	7		9		12				6		6		14		60	5
			2						18		1				60	4
	7				4		30		8		4		6		18	
	12		4		6		30						12			12
	7		12		2				18		6		8			12
	2		2		10		30		18		12		6			3
	7		12		4		30		56		18		38		90	56
	12		72		8				24		36		62			43
	18		34		15		6		6		22		37		60	9
	15		42		14		30		9		24		54		60	3
	28		12		16		120		36		27		30		120	30
	33		18		12		120		42		32		28		60	26
			5		2						3		6			
	15		8		9		60		13		12		42		60	14
	10		14		2		120		9		12		12		60	14
	276		180		248		960		272		196		128		960	192
	8		13		15				12		24		9			6
	108		94		62		300		30		40		145		300	167
	12		4		15		120		11		12		13			5
	15		3		12		240		26		7		24		192	12
			38		12				6		3		12		120	24
	7		37		12		60		4		20		38		60	12
	24		12		24								72			24
			34				240		24		12		48		120	27
	8		29		30				24		24		24			32
	6		12		24				12		24		16			15
	6		11		5				9		7		18			13
	6		12						6				6			
	12		14		8				4		12		14			5
	3		12		5				2		13		6		60	2

21		22		23		24		25		26		27		28
Remain	Out	Remain	Out	Remain	Out	Remain	Out	Remain	Out	Remain	Out	Remain	Out	Remain
	29		30		96						24		60	516
	12		4		32						4		7	
	13		12	60	14						7		11	150
	2		6		8						9			72
	1			30	15						14		2	60
		24	60		12						9		3	120
	2		38		21						18		6	60
	9		2	30	12						12		6	90
	14		6	60	42						68		23	180
	11		36		76						45		36	516
	5		14	120	72						18		32	150
			23	60	30						12		6	90
	24		12	180	78						28		62	360
	23				102						25		31	636
			5	30	20								3	60
	16		44	60	67						19		17	90
	7		20		48						12		16	60
	376		470	1200	1029						96		89	600
	12		14		42						12		56	
	220		113	300	349						180		56	156
	7		13		108						24		36	
	4		12		120						48		2	
	22		26		52						24		28	
	14		16	60	49						14		22	120
					127						48		24	480
	24		21		96						24		28	
	29		24	360	123						50		24	
	8		11		38								20	120
	6		14	60	27						16		14	120
	14				19								12	60
	2		12		32						12		14	60
	4		3		16						4		7	30

Out	29		30		31		Damaged Goods	Price of Product	Lost
	Remain	Out	Remain	Out	Remain	Out			
12		18		36			212	4360	924320
3		5		1			17	12600	214200
8		12		2			48	7000	336000
1		2		2			78	7000	546000
2		3		5			100	3680	368000
1		3					136	14060	1912160
8	60	9					125	7700	962500
20	30	6		12			73	4070	297110
43	60	20		18			95	13500	1282500
12		26		12			128	3680	471040
18		16		24			92	7000	644000
4	30	15		20			63	14060	885780
48	120	30		59			41	7700	315700
45	120	27		60			81	4070	329670
2				15			66	15070	994620
12		13					57	8250	470250
3		8					165	4360	719400
246	1200			984			305	6190	1887950
17		26		18			266	3180	845880
72		14		58			324	5220	1691280
12		14		9			179	3310	592490
24		12		27			209	5090	1063810
10		16		20			122	1630	198860
12		6		20			0	5060	0
26	240	24		40			185	1920	355200
24		24					371	2120	786520
29		24		24			109	2390	260510
24				7			237	7700	1824900
5		7		5			47	2250	105750
6		5		6			88	4070	358160
3		14		6			29	7700	223300
2	30	6		4			61	9730	593530
							4109		22461390

TABLE OF RECAPITULATION, EOQ & ROP

Item	Sales for 2years	Average Sales Monthly D	Set up cost K	Product Price	Holding Cost h	Order Quantity EOQ	Reorder point R	New ROP 2R
100014	14660	610.8333333	2500	4630	23.15	363.2209323	40.72222222	81.44444444
100016	7863	327.625	2500	12600	63	161.2513074	21.84166667	43.68333333
100017	4167	173.625	2500	7060	35.3	156.8208411	11.575	23.15
100018	3699	154.125	2500	3680	18.4	204.6504177	10.275	20.55
100019	2594	108.0833333	2500	14060	70.3	87.67720659	7.205555556	14.41111111
100020	5903	245.9583333	2500	7700	38.5	178.7250422	16.39722222	32.79444444
100021	5954	248.0833333	2500	4070	20.35	246.8889142	16.53888889	33.07777778
100022	4879	203.2916667	2500	13500	67.5	122.7136585	13.55277778	27.10555556
100023	12754	531.4166667	2500	7500	37.5	266.1870687	35.42777778	70.85555556
100024	15396	641.5	2500	3680	18.4	417.5172478	42.76666667	85.53333333
100027	9446	393.5833333	2500	7000	35	237.1206243	26.23888889	52.47777778
100029	10044	418.5	2500	14060	70.3	172.5262056	27.9	55.8
100030	28268	1177.833333	2500	7700	38.5	391.1078725	78.52222222	157.0444444
100031	27354	1139.75	2500	4070	20.35	529.1850858	75.98333333	151.9666667
100032	3201	133.375	2500	15070	75.35	94.07637835	8.891666667	17.78333333
100033	10071	419.625	2500	8250	41.25	225.5296796	27.975	55.95
100034	8666	361.0833333	2500	4360	21.8	287.7799129	24.07222222	48.14444444
100250	112891	4703.791667	2500	6190	30.95	871.7234213	313.5861111	627.1722222
100251	5526	230.25	2500	3180	15.9	269.082999	15.35	30.7
100259	32095	1337.291667	2500	5220	26.1	506.1483409	89.15277778	178.3055556
100260	7825	326.0416667	2500	3310	16.55	313.8503052	21.73611111	43.47222222
100261	7150	297.9166667	2500	1630	8.15	427.5172057	19.86111111	39.72222222
100263	5327	221.9583333	2500	5090	25.45	208.8222815	14.79722222	29.59444444
100264	13891	578.7916667	2500	5060	25.3	338.2095576	38.58611111	77.17222222
101795	10944	456	2500	1920	9.6	487.3397172	30.4	60.8
101796	10929	455.375	2500	2200	11	454.9600382	30.35833333	60.71666667
101797	15637	651.5416667	2500	2390	11.95	522.1221849	43.43611111	86.87222222
101807	9369	390.375	2500	2250	11.25	416.533312	26.025	52.05
102016	6503	270.9583333	2500	7700	38.5	187.588363	18.06388889	36.12777778
102038	4888	203.6666667	2500	4070	20.35	223.6983461	13.57777778	27.15555556
112219	5010	208.75	2500	7700	38.5	164.6523295	13.91666667	27.83333333
116067	4526	188.5833333	2500	9730	48.65	139.2179498	12.57222222	25.14444444

SIMULATION USING EOQ & R

Item	Description		Opening Qty	Tanggal							
				1	2	3	4	1	2	3	4
				avaiaible	keluar	avaiaible	keluar	avaiaible	keluar	avaiaible	keluar
100014	JUNGLE JUS. 12 x 500ML	JUICE APPLE	212	212	56	156	24				132
100016	JUNGLE JUS.6x2 LTR	JUICE LEMON	301	301	12	289	6				283
100017	JUNGLE JUS.6x1 LTR	JUICE LEMON	169	169	7	162	4				158
100018	JUNGLE JUS.12 x 500 ML	JUICE LEMON	38	38	3	35					35
100019	JUNGLE JUS.6x2 LTR	JUICE MANGO	121	121	4	117	2				115
100020	JUNGLE JUS.6x1 LTR	JUICE MANGO	13	13		13	8				
100021	JUNGLE JUS.12 x 500 ML	JUICE MANGO	381	381	12	369	12				357
100022	JUNGLE JUS.6x2 LTR	JUICE ORANGE	86	86	6	80					80
100023	JUNGLE JUS.6x1 LTR	JUICE ORANGE	199	199	12	187	28				159
100024	JUNGLE JUS.12 x 500 ML	JUICE ORANGE	464	464	60	404	48				356
100027	JUNGLE JUS.6x1 LTR	JUICE PINEAPPLE	213	213	24	189	6				183
100029	JUNGLE JUS.6x2 LTR	JUICE PINK GUAVA	153	153	20	133	8				125
100030	JUNGLE JUS.6x1 LTR	JUICE PINK GUAVA	284	284	60	224	54				170
100031	JUNGLE JUS.12 x 500 ML	JUICE PINK GUAVA	246	246	60	186	56				
100032	JUNGLE JUS.6x2 LTR	JUICE SIRSAK	200	200	12	188	19				169
100033	JUNGLE JUS.6x1 LTR	JUICE SIRSAK	150	150	60	90	12				78
100034	JUNGLE JUS.12 x500 ML	JUICE SIRSAK	244	244	12	232	7				225
100250	DIAMOND.12x1 Lt	MILK FRESH - PLAIN FROZEN	1370	1370	600	770	440				
100251	DIAMOND.12x500 ML	MILK FRESH - PLAIN FROZEN	365	365	12	353	6				347
100259	DIAMOND.12x1 Lt	MILK FRESH CHOCOLATE	701	701	84	617	61				556
100260	DIAMOND.12x500 ML	MILK FRESH CHOCOLATE - FROZEN	103	103	20	83	12				71
100261	DIAMOND.24x200 ML	MILK FRESH CHOCOLATE - FROZEN	203	203	24	179	12				167
100263	DIAMOND.12x1 Lt	MILK FRESH CHOCOLATE - FROZEN	237	237	18	219	12				207
100264	DIAMOND.12x1 Lt	MILK FRESH NON FAT - FROZEN	120	120	25	95	12				83
101795	JUNGLE JUS.24 X 200 ML	JUICE ORANGE	633	633	24	609	26				583
101796	JUNGLE JUS.24 X 200 ML	JUICE APPLE	486	486	25	461	18				443
101797	JUNGLE JUS.24 X 200 ML	JUICE PINK GUAVA	139	139	48	91	24				67
101807	JUNGLE JUS.24 X 200 ML	JUICE SIRSAK	110	110	26	84	12				72
102016	JUNGLE JUS.6X1 LT	JUICE GRAPE	100	100	10	90	8				82
102038	JUNGLE JUS.12 X 500 ML	JUICE GRAPE	260	260	12	248					248
112219	JUNGLE JUS.6X1 LT	JUICE LEMON CARROT	67	67	14	53	3				50
116067	JUNGLE JUS.6X1 LT	JUICE LYCHEE	66	66	6	60	4				56

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Details:

- take order to Head Office
- order arrive
- throwing damaged goods

in lumine

keluar	5		6		7		8		9		10		11	
	avaiaible	keluar	avaiaible	keluar	avaiaible	keluar	avaiaible	keluar	avaiaible	keluar	avaiaible	keluar	avaiaible	keluar
70	62	18		36	380	20	360	36	324	12			312	46
24	259	12	247	6	241	16	225	12	213	24			189	12
12	146	14	132	4	128	12	116	8	108	14			94	15
6	29	3	26	3	23	7	16	2		12			158	4
13	102		102	2	100	11	89	4	85	6			79	1
	185	6	179	3	176	1	175	2	173	3			170	7
8	349		349	14	335	6	329		329	18			311	3
12	68	11	57	6	51	8	43	12	31	3			28	7
24	135	20	115	21	94	17	77	14	63	48				24
24	332	12	320	17	303	32	271	45	226	12			214	21
38	145	13	132	6	126	5	121	4	117	23			94	24
24	101	35	66	10	56	6	50	12		18			194	11
124	46	36		73	333	108	225	72	153	71				12
108	562	24	538	49	489	98	391	37	354	84			270	30
6	163	20	143	6	137	3	134	4	130	8			122	15
38	40	23		20	225	6	219	36	183	12			171	12
24	201		201	10	191	13	178	6	172	29			143	21
284	922	196	726	108	618	224	394	176		184			910	193
14	333	8	325	7	318	12	306	6	300				300	21
35	521	88	433	48	385	37	348	90	258	96				64
6	65	8	57	16	41	11		9	345	12			333	18
12	155	7	148	12	136	6	130	24	106	14			92	24
33	174	5	169	18	151	16	135	12	123	15			108	14
36	47	8		12	375	28	347	22	325	8			317	32
52	531	8	523	24	499	1	498	24	474	27			447	49
33	410	3	407	24	383	24	359		359	29			330	24
26	41	24		24	521	24	497	28	469	34			435	24
7	65	12	53	24	29	24		12	401	31			370	24
6	76	7	69	8	61	1	60	7	53	9			44	6
14	234		234	8	226	12	214		214	10			204	6
12	38	8	30	8	22	13		16	161	6			155	21
8	48	6	42	6	36	11	25	12		4			153	18

12		13		14		15		16		17		18		19
avaiaible	keluar	avaiaible	keluar	avaiaible	keluar	avaiaible	keluar	avaiaible	keluar	avaiaible	keluar	avaiaible	keluar	avaiaible
266	27	239	30	209	60	149	18	131	12			119	36	83
177	6	171	6	165	9	162	12	150	14			136	6	130
79	3	76	7	69	9	162	12	150	6			144	6	138
154	1	153		153	2	151		151	18			133	1	132
78	3	75	7	68		90	4	86	8			78	4	74
163	12	151	12	139	4	135	6	129				129		129
308	1	307	7	300	12	252	2	250	18			232	6	226
21	8		2	137	2	128	10	116	18			98	12	86
261	12	249	7	242	12	230	4	226	56			170	18	152
193	25	163	12	156	72	420	8	412	24			388	36	352
70		70	18	52	34	240	15	225	6			219	22	197
183	17	166	15	151	42	109	14	95	9			86	24	82
466	42	424	28	396	12	384	16	368	36			332	27	305
240	23	217	33	184	18	166	12	154	42				32	620
107	12	95		95	5	95	2	94				94	3	91
159	18	141	15	126	8	118	9	109	13			96	12	84
122	14	108	10	98	14	288	2	286	9			277	12	265
717	240	477	276		180	897	248	649	272				196	1057
279	6	273	8	265	13	240	15	225	12			213	24	189
614	72	542	108	434	94	340	62	278	30			248	40	208
315	8	307	12	295	4	291	15	276	11			265	12	253
68	12	58	15	41	3	300	12	288	26			262	7	255
94	12	82		82	38	218	12	204	6			198	3	195
285	14	271	7	264	37	227	12	215	4			211	20	191
398		398	24	374	12	458	24	432				432		432
306	24	282		282	34	458		456	24			432	12	420
411	26	385	8	377	29	348	30	318	24			294	24	270
346	24	322	6	316	12	304	24	280	12			268	24	244
38	4	34	6	28	11	192	5	187	9			178	7	171
198	2	198	6	190	12	204		204	6			198		198
134	13	121	12	109	14	95	8	87	4			83	12	71
135	1	134	3	131	12	119	5	114	2			112	13	99

	20		21		22		23		24		25		26		
	keluar	avaiaile	keluar	avaiaile	keluar	avaiaile	keluar	avaiaile	keluar	avaiaile	keluar	avaiaile	keluar	avaiaile	keluar
48			12	395	29	366	30	336	96					240	24
3	127		24	103	12	91	4	87	32					55	4
14	124		5	119	13	106	12	94	14					80	7
	132		4	128	2	126	6	120	8					112	9
6	68			68	1	67		67	15					52	14
12	117		12	105		105	24	81	12					69	9
8	218		12	206	2	204	36	168	21					147	18
6	80		3	77	9	68	2	66	12					54	12
38	114		56	58	14	44	6		42					266	68
62	290		43	247	11	236	36	200	76					124	45
37	160		9	151	5	146	14	132	72					60	18
54	8		3			179	23	156	30					126	12
30	275		30	245	24	221	12	209	78					131	28
28	592		26	566	23	543		543	102					441	25
6	85			85		85	5	80	20					60	
42	42		14		16	240	44	196	67					129	19
12	253		14	239	7	232	20	212	48					164	12
128	929		192	737	376		470		1029					614	96
9	180		6	174	12	162	14	148	42					106	12
145			167	412	220	192	113		349					246	180
13	240		5	235	7	228	13	215	108					107	24
24	231		12	219	4	215	12	203	120					83	48
12	183		24	159	22	137	26	111	52					59	24
38	153		12	141	14	127	16	111	49					62	14
72	360		24	336		336		336	127					209	48
48	372		27	345	24	321	21	300	96					204	24
24	246		32	214	29	185	24	161	123						50
16	228		15	213	8	205	11	194	38					156	
18	153		13	140	6	134	14	120	27					93	16
6	192			192	14	178		178	19					159	
14	57		5	52	2	50	12	38	32						12
6	93		2	91	4	87	3	84	16					68	4

27		28		29		30		31		Closing Qty	Damaged Goods	Price of Product	Lost
avaiaible	keluar	avaiaible	keluar	avaiaible	keluar	avaiaible	keluar	avaiaible	keluar				
216	60	156	12	144	18	126	36			90		4360	0
51	7	44	3	41	5		1			197	156	12600	1965600
73	11	62	8	54	12	42	2			40	60	7000	420000
103		103	1	102	2	100	2			98		7000	0
38	2	36	2	34	3	31	5			26	68	3680	250240
60	3	57	1	56	3	53				53		14060	0
129	6	123	8	115	9	106				106	288	7700	2217600
42	6	36	20	16	6		12			124	9	4070	36630
198	23	175	43	132	20	112	18			94		13500	0
79	36	43	12		26	425	12			413	84	3680	309120
42	32		18	232	16	216	24			192	18	7000	126000
114	6	108	4	104	15	89	20			69		14060	0
103	62		48	389	30	359	59			300		7700	0
416	31	385	45	340	27	313	60			253		4070	0
60	3	57	2	55	2	55	15			40	90	15070	1356300
110	17	93	12	81	13	68				68		8250	0
152	16	136	3	133	8	125				125	84	4360	366240
518	89		246	1059		1059	984			75		6190	0
94	56	38	17		26	235	18			217	252	3180	801360
66	56		72	454	14	440	58			382		5220	0
83	36	47	12		14	345	9			336		3310	0
35	2		24	309	12	297	27			270	38	5090	193420
35	28		10	213	16	197	20			177	44	1630	71720
48	22		12	362	6	356	20			336		5060	0
161	24	137	28	111	24	87	40			47	362	1920	695040
180	28	152	24	128	24	104				104	248	2120	525760
516	24	492	29	463	24	439	24			415		2390	0
156	20	136	24	112		112	7			105		7700	0
77	14	63	5	58	7	51	5			46	17	2250	38250
159	12	147	6	141	5	136	6			130	178	4070	724460
162	14	148	3	145	14	131	6			125		7700	0
64	7	57	2	55	6	49	4			45		9730	0
											1986		10097740