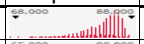
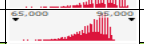
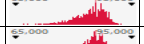
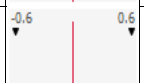
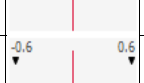
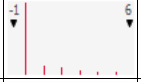
	A	B	C	D	E	F
1	**Overbooking Model**					
2		**First Class**	**Economy**		**OL_First**	**OL_Econ**
3	**Ticket Price**	**$ 600**	**$ 300**		**0**	**0**
4	**Penalty**	**$ 500**	**$ 200**		**0**	**5**
5	**Seats**	**50**	**190**		**0**	**10**
6	**Expected Demand**	**50**	**200**		**0**	**15**
7	**Probability of Coming**	**0.93**	**0.96**		**0**	**20**
8					**0**	**25**
9	**Overbooking**	**0**	**0**		**5**	**0**
10					**5**	**5**
11	**Demand**	**50**	**200**		**5**	**10**
12	**Tickets Sold**	**50**	**190**		**5**	**15**
13	**Passengers Arrived**	**47**	**182**		**5**	**20**
14	**Passengers Seated**	**47**	**182**		**5**	**25**
15	**Passengers Not Seated**	**0**	**0**		**10**	**0**
16	**Revenue from tickets**	**$ 28,200**	**$ 57,000**		**10**	**5**
17	**Penalty for Overbooking**	**$ -**	**$ -**		**10**	**10**
18	**Profit**	**$ 28,200**	**$ 57,000**		**10**	**15**
19					**10**	**20**
20	**Total Profit**				**10**	**25**
21	**$ 85,200**					

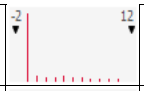
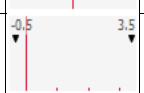
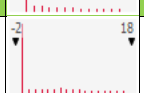
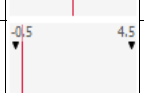
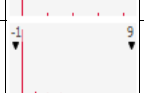
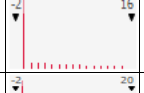
	A	B	C	D	E	F
1	Overbooking Model					
2		First Class	Economy		_Fi	L_Ec
3	Ticket Price	600	300		0	0
4	Penalty	500	200		0	5
5	Seats	50	190		0	10
6	Expected Demand	50	200		0	15
7	Probability of Coming	0.93	0.96		0	20
8					0	25
9	Overbooking	=RiskSimtable(E3:E20)	=RiskSimtable(F3:F20)		5	0
10					5	5
11	Demand	=RiskPoisson(B6)	=RiskPoisson(C6)		5	10
12	Tickets Sold	=MIN(B11,B5+B9)	=MIN(C11,C5+C9)		5	15
13	Passengers Arrived	=RiskBinomial(B12,B7)	=RiskBinomial(C12,C7)		5	20
14	Passengers Seated	=MIN(B5,B13)	=MIN(B5+C5-B14,C13)		5	25
15	Passengers Not Seat	=RiskOutput()+B13-B14	=RiskOutput()+C13-C14		10	0
16	Revenue from tickets	=B3*B14	=C3*C12		10	5
17	Penalty for Overbook	=B15*B4	=C15*(C3+C4)		10	10
18	Profit	=B16-B17	=C16-C17		10	15
19					10	20
20	Total Profit				10	25
21	=RiskOutput()+B18+C					

@RISK Output Results

Performed By: Levin, Yuri G

Date: March-03-13 1:46:44 PM

Name	Cell	Sim#	Graph	Min	Mean	Max	5%	95%	Errors
Total Profit	A21	1		$ 68,100	$ 82,745	$ 87,000	$ 77,100	$ 86,400	0
Total Profit	A21	2		$ 68,100	$ 83,789	$ 88,500	$ 77,700	$ 87,300	0
Total Profit	A21	3		$ 68,100	$ 84,539	$ 90,000	$ 78,000	$ 88,800	0
Total Profit	A21	4		$ 68,100	$ 84,771	$ 90,900	$ 78,000	$ 88,900	0
Total Profit	A21	5		$ 68,100	$ 84,683	$ 91,100	$ 78,000	$ 88,800	0
Total Profit	A21	6		$ 68,100	$ 84,549	$ 91,100	$ 78,000	$ 88,600	0
Total Profit	A21	7		$ 68,100	$ 83,263	$ 87,000	$ 77,400	$ 87,000	0
Total Profit	A21	8		$ 68,100	$ 84,293	$ 88,500	$ 78,000	$ 88,200	0
Total Profit	A21	9		$ 68,100	$ 84,900	$ 90,000	$ 78,300	$ 89,100	0
Total Profit	A21	10		$ 68,100	$ 85,010	$ 91,500	$ 78,300	$ 89,100	0
Total Profit	A21	11		$ 68,100	$ 84,903	$ 91,500	$ 78,300	$ 88,900	0
Total Profit	A21	12		$ 68,100	$ 84,769	$ 91,500	$ 78,300	$ 88,800	0
Total Profit	A21	13		$ 68,100	$ 82,981	$ 87,000	$ 77,400	$ 86,500	0
Total Profit	A21	14		$ 68,100	$ 84,010	$ 88,500	$ 77,700	$ 88,000	0
Total Profit	A21	15		$ 68,100	$ 84,608	$ 90,000	$ 78,000	$ 89,000	0
Total Profit	A21	16		$ 68,100	$ 84,713	$ 91,500	$ 78,000	$ 88,800	0
Total Profit	A21	17		$ 68,100	$ 84,605	$ 91,500	$ 78,000	$ 88,700	0
Total Profit	A21	18		$ 68,100	$ 84,471	$ 91,500	$ 78,000	$ 88,500	0
Passengers Not Seated / First Class	B15	1		0	0	0	0	0	0
Passengers Not Seated / First Class	B15	2		0	0	0	0	0	0
Passengers Not Seated / First Class	B15	3		0	0	0	0	0	0
Passengers Not Seated / First Class	B15	4		0	0	0	0	0	0
Passengers Not Seated / First Class	B15	5		0	0	0	0	0	0
Passengers Not Seated / First Class	B15	6		0	0	0	0	0	0
Passengers Not Seated / First Class	B15	7		0	0.432	5	0	3	0
Passengers Not Seated / First Class	B15	8		0	0.432	5	0	3	0
Passengers Not Seated / First Class	B15	9		0	0.432	5	0	3	0
Passengers Not Seated / First Class	B15	10		0	0.432	5	0	3	0
Passengers Not Seated / First Class	B15	11		0	0.432	5	0	3	0
Passengers Not Seated / First Class	B15	12		0	0.432	5	0	3	0

Passengers Not Seated / First Class	B15	13		0	1.066667	10	0	6	0
Passengers Not Seated / First Class	B15	14		0	1.066667	10	0	6	0
Passengers Not Seated / First Class	B15	15		0	1.066667	10	0	6	0
Passengers Not Seated / First Class	B15	16		0	1.066667	10	0	6	0
Passengers Not Seated / First Class	B15	17		0	1.066667	10	0	6	0
Passengers Not Seated / First Class	B15	18		0	1.066667	10	0	6	0
Passengers Not Seated / Economy	C15	1		0	0	0	0	0	0
Passengers Not Seated / Economy	C15	2		0	0.00766667	3	0	0	0
Passengers Not Seated / Economy	C15	3		0	0.2036667	7	0	2	0
Passengers Not Seated / Economy	C15	4		0	1.016667	12	0	6	0
Passengers Not Seated / Economy	C15	5		0	2.081	16	0	10	0
Passengers Not Seated / Economy	C15	6		0	2.913333	21	0	14	0
Passengers Not Seated / Economy	C15	7		0	0	0	0	0	0
Passengers Not Seated / Economy	C15	8		0	0.03433333	4	0	0	0
Passengers Not Seated / Economy	C15	9		0	0.5163333	8	0	4	0
Passengers Not Seated / Economy	C15	10		0	1.573333	13	0	8	0
Passengers Not Seated /	C15	11		0	2.675333	18	0	12	0
Passengers Not Seated /	C15	12		0	3.509333	23	0	16	0
Passengers Not Seated /	C15	13		0	0	0	0	0	0
Passengers Not Seated / Economy	C15	14		0	0.036	4	0	0	0
Passengers Not Seated /	C15	15		0	0.537	9	0	4	0
Passengers Not Seated / Economy	C15	16		0	1.604667	14	0	8	0
Passengers Not Seated /	C15	17		0	2.707333	18	0	12	0
Passengers Not Seated /	C15	18		0	3.541333	23	0	16	0