	A	B	C	D	E	F	G	H	I
1	**Problem: Production of P Head and H Head**								
2									
3									
4	Week	Xi (1=P-Head 0=H-Head)	Ci (1=changeover)	Pi (Qp-head)	Hi (Qh-head)	Production Constraint P	Production Constraint H		
5	Week 0	1							
6	Week 1	0	0	0	0	0	80		
7	Week 2	1	1	83	0	100	0		
8	Week 3	1	0	100	0	100	0		
9	Week 4	0	1	0	2	0	80		
10	Week 5	0	0	0	59	0	80		
11	Week 6	0	0	0	80	0	80		
12	Week 7	0	0	0	80	0	80		
13	Week 8	1	1	42	0	100	0		
14	Week 9	0	1	0	11	0	80		
15									
16									
17							*Constraint Limit on P Head*		*Constraint Limit on H Head*
18					*Decision Variables >= 0*				
19					*Constraint Non Negativity*				
20									
21	(Inventory at end of we	Ihi (Inventoryat end of week)	Demand P	Demand H	Inventory Constraint P	Inventory Constraint H			
22	125	143	0	0					
23	70	105	55	38	44	30.4			
24	98	67	55	38	35.2	24			
25	154	37	44	30	0	0			
26	154	39	0	0	36	38.4			
27	109	50	45	48	36	38.4			
28	64	82	45	48	28.8	46.4			
29	28	104	36	58	28	45.6			
30	35	47	35	57	28	46.4			
31	0	0	35	58	0	0			
32									
33	Cost Minimize	$ 126,034.74							
34							*Constraint Meet 80% Demand of Next Week H-Head*		
35			Objective, Minimize		*Constraint Meet 80% Demand of Next Week P-Head*				