Phone Survey Problem

Percentages	Landline	Cell Phone	Contacts	Made		Required	
Young Women	8%	20%	Young Women	1500	>=	1500	
Young Men	8%	18%	Young Men	1400	>=	1400	
Older Women	20%	20%	Older Women	2250	>=	1100	
Older Men	20%	18%	Older Men	2150	>=	1000	
No Answer	44%	24%			Nil Sim	sok:	
			Total cost	\$ 3,750.00		2*B2+\$C\$12*	C2)
							_
Cost/call	\$ 0.20	\$ 0.50					
					Nil Sim	sek:	
	Landline	Cell Phone			=\$B\$9*	\$B\$12+\$C\$9*	'\$C\$12
Calls made	6250	5000					
		<=					
Max Cell Phone		5625	Nil Simsek:				
			=(B12+C12)/2				
			(5.12 6.12)/2				

\$B\$12:\$C\$12			_
ubject to the Co \$B\$12:\$C\$12 =			Add
\$F\$2 >= \$H\$2			Add
\$F\$3 >= \$H\$3 \$F\$4 >= \$H\$4	Change		
\$F\$5 >= \$H\$5			Delete
			Reset All
			Load/Save
Make Uncon	strained V	ariables Non-Negat	ive
elect a Solving I	Method:	Simplex LP	▼ Options
			Options
Solving Method			
		gine for Solver Proble	
onlinear. Select	the LP Sim	plex engine for linear	

Funding a Pension Liability

			Reinv	0.02			Rate					
	Bonds	Bond 1	Bond 2	Bond 3			4%					
Purchased	197930.977	74.00	78.00	28.00			Nil Simsek:					
							=SUMPRODU	JCT(\$C\$3:\$E\$3,C7:E	7)			
	Price	980.00	970.00	1050.00						_		
					Cash in from	Cash from	Pension					
Nil Simsek:				Nil Simsek:	Perv Period	Bonds	Liability	Surplus Cash				
=SUMPRODUCT	T(C3:E3.C5:E5)+F	7		=I7*(1+\$H\$2)	20,351	\$0	11,000	\$9,350.98	>=	0		
2	01-Jan-06	60	65	/5	9,725	** \$11,610	12,000	\$9,335.02	>=	0 Nil Sim	sek.	9
3	01-Jan-07	60	65	75	9,708	\$11,610	14,000	\$7,318	>=	0 ⊜ =F7+G		e
4	01-Jan-08	60	65	75	7,611	\$11,610	15,000	\$4,221	>=	0		
5	01-Jan-09	60.00	65	75	4,390	\$11,610	16,000	\$0	>=	0		
6	01-Jan-10	1060.00	65	75	0	\$85,610	18,000	\$67,610	>=	0		
7	01-Jan-11		65	75	70,314	\$7,170	20,000	\$57,484	>=	0		
8	01-Jan-12		65	75	59,784	\$7,170	21,000	\$45,954	>=	0		
	01-Jan-13		65	75	47,792	\$7,170	22,000	\$32,962	>=	0		
	01-Jan-14		65	75	34,280	\$7,170	24,000	\$17,450	>=	0		
1	01-Jan-15		65	75	18,148	\$7,170	25,000	\$318	>=	0		
2	01-Jan-16		1065.00	75	331	\$85,170	30,000	\$55,501	>=	0		
3	01-Jan-17			75	57,721	\$2,100	31,000	\$28,821	>=	0		
4	01-Jan-18			75	29,974	\$2,100	31,000	\$1,074	>=	0		
5	01-Jul-19			1075.00	1,117	\$30,100	31,000	\$217	>=	0		

To: Max By Changing Var	Min Value Of:	0
\$C\$3:\$E\$3,\$F\$7		_
Subject to the Co	onstraints:	
\$C\$3:\$E\$3 = ir \$F\$7 >= \$H\$7		Add
\$1\$7:\$1\$21 >=	0	Change
		Delete
		Reset All
		Load/Save
✓ Make Uncon:	strained Variables Non-Ne	egative
elect a Solving I	Method: Simplex LP	Options
Solving Method		
nonlinear. Select	onlinear engine for Solver Pr the LP Simplex engine for li olutionary engine for Solver	near Solver Problems,