



1					
2					300
	15,000	2%	5.4		
1.80%	5.4				
	24				
				10%	
3					20
	26.22	/			26.09
/		50%	13.11	/	
				20	
				50%	
4					122

5%

1				7	2.33%	
2				7	2.33%	
3				2	0.67%	
4				2	0.67%	
5				2	0.67%	
6				2	0.67%	
7				0.4	0.13%	
8				0.4	0.13%	
9				0.4	0.13%	
10				0.4	0.13%	
11				0.4	0.13%	
12				0.4	0.13%	
13				0.4	0.13%	
14				0.4	0.13%	
				25.2	8.38%	

5

60

1

12

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48

25%

25% 25% 25%

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4	2012			
	2,600	2012	27,000	
7			12	
			12	24
		1	2011	2012
	15%	2	2011	2012
				18%
8				

	12	24	2011 15%	2012 2011	25%
			2012	18%	
	24	36	2011 32%	2013 2011	25%
			2013	40%	
12	36	48	2011 52%	2014 2011	25%
			2014	65%	
	48	60	2011 75%	2015 2011	25%
			2015	95%	

12	12	24	2011 15% 2012	2012 2011 18%	25%
	24	36	2011 32% 2013	2013 2011 40%	25%
	36	48	2011 52% 2014	2014 2011 65%	25%
	48	60	2011 75% 2015	2015 2011 95%	25%
			12		24

12	12	24	2011 32% 2013	2013 2011 40%	30%
	24	36	2011 52% 2014	2014 2011 65%	30%
	36	48	2011 75% 2015	2015 2011 95%	40%

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2%

5.4

1.80%

300
15,000
5.4
24

10%

1				12	4%	0.08%
2				15	5%	0.10%
3	()			267.6	89.2%	1.784%
	120			294.6	98.2%	1.964%
				5.4	1.80%	0.036%
				300	100.00%	2%

1

1%

2

3

5%

1				7	2.33%	
2				7	2.33%	
3				2	0.67%	
4				2	0.67%	
5				2	0.67%	
6				2	0.67%	

7				0.4	0.13%	
8				0.4	0.13%	
9				0.4	0.13%	

10

0.4

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1 2012

2,600 2 2012

27,000

12

12 24

1 2011 2012

15% 2 2011 2012 18%

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2		10	2
3			2
4			2

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13.11

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30%

30%

40%

	12	24	2011	2012	2011	2012	25%
			15%	18%			
12	24	36	2011	2013	2011	2013	25%
			32%	40%			

		2011		2014	
36	48		52%	2011	25%
		2014			65%

		2011		2015	
48	60		75%	2011	25%
		2015			95%

12	24	2011	2014	30%
	36	52%	2011	
		2014	65%	
	36	2011	2015	40%
	48	75%	2011	
		2015	95%	

1

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K K₀ 1 N

43 >Tj 12.40E8D>-9<220 EM9<1B4B36752F3C25940885>1A3459<3EMC /P <</MCID



P

P₀

N

2

P P₀

P

P₀

N

1

N

3

P P₀ V

P

P₀

V

P

4

P P₀ P₁ P₂ / [P₁ N]

P

P₀

P₁

P₂

N

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300

25% 25% 25% 25%

300

2697.81 2012 9 30

2012 10

		2012	2013	2014	2015 (2016 (
300	2697.81	351.28	1236.49	646.35	337.23	126.46

A

1

K K₀ 1 N

K

K₀

N

2

K K₀

K

K₀

N

1

N

3

$$K = K_0 \frac{P_1 - P_2}{P_1 - P_2 - N}$$

$$N = \frac{K_0}{K} (P_1 - P_2)$$

1

$$P = P_0 \frac{1 - N}{P - P_0} \Rightarrow P - P_0 = \frac{1 - N}{P - P_0} (P - P_0)$$

2

$$P = P_0 \frac{1 - N}{P - P_0} \Rightarrow P - P_0 = \frac{1 - N}{P - P_0} (P - P_0)$$

3

$$P = P_0 \frac{V}{P - P_0} \Rightarrow P - P_0 = \frac{V}{P - P_0} (P - P_0)$$

4

$$P = P_0 \frac{P_1 - P_2}{P_1 - P_2 - N}$$

P₁

P₂

N

1/P / 2 0/20 12 1 0 0 1 301.03 711 49.43527374/P / 2 /2 12 301.03 7124 49.4352
