

Shaped In-City Mitigation Examples

ISO Formula - Applicable to Cases 1-9

$$\text{MSPCn} = [\text{AMPC}/6 + (\text{Rn}) * \text{MDCRP} * (\text{R}-1) / (\text{DCL}-1)] / (1+\text{Rn})$$

$$\text{MWPCn} = \text{MSPCn} - \text{MDCRP} * (\text{R}-1) / (\text{DCL}-1)$$

Case 1	AMPC =	\$105	DCL =	1.18
YR 1 Curve	R =	1.07	Rn =	1.07
w/ avg Rn	MDCRP =	10.66		
MSPCn = $[\$105/6 + (1.07)*10.66*(1.07-1)/(1.18-1)]/(1+1.07) =$				
\$ 10.60				
MWPCn = $10.60 - 10.66*(1.07-1)/(1.18-1) =$ \$ 6.45				
DGO On Revenues = MSPCn x 6 + MWPCn x 6 x Rn = \$ 105.00				

Case 4	AMPC =	\$105	DCL =	1.18
YR 2 Curve	R =	1.07	Rn =	1.07
w/ avg Rn	MDCRP =	12.595		
MSPCn = $[\$105/6 + (1.07)*12.595*(1.07-1)/(1.18-1)]/(1+1.07) =$				
\$ 10.99				
MWPCn = $10.99 - 12.595*(1.07-1)/(1.18-1) =$ \$ 6.09				
DGO On Revenues = MSPCn x 6 + MWPCn x 6 x Rn = \$ 105.00				

Case 2	AMPC =	\$105	DCL =	1.18
YR 1 Curve	R =	1.07	Rn =	1.04
w/ low Rn	MDCRP =	10.66		
MSPCn = $[\$105/6 + (1.04)*10.66*(1.07-1)/(1.18-1)]/(1+1.04) =$				
\$ 10.69				
MWPCn = $10.69 - 10.66*(1.07-1)/(1.18-1) =$ \$ 6.55				
DGO On Revenues = MSPCn x 6 + MWPCn x 6 x Rn = \$ 105.00				

Case 5	AMPC =	\$105	DCL =	1.18
YR 2 Curve	R =	1.07	Rn =	1.04
w/ low Rn	MDCRP =	12.595		
MSPCn = $[\$105/6 + (1.04)*12.595*(1.07-1)/(1.18-1)]/(1+1.04) =$				
\$ 11.08				
MWPCn = $11.08 - 12.595*(1.07-1)/(1.18-1) =$ \$ 6.18				
DGO On Revenues = MSPCn x 6 + MWPCn x 6 x Rn = \$ 105.00				

Case 3	AMPC =	\$105	DCL =	1.18
YR 1 Curve	R =	1.07	Rn =	1.15
w/ high Rn	MDCRP =	10.66		
MSPCn = $[\$105/6 + (1.15)*10.66*(1.07-1)/(1.18-1)]/(1+1.15) =$				
\$ 10.36				
MWPCn = $10.36 - 10.66*(1.07-1)/(1.18-1) =$ \$ 6.21				
DGO On Revenues = MSPCn x 6 + MWPCn x 6 x Rn = \$ 105.00				

Case 6	AMPC =	\$105	DCL =	1.18
YR 2 Curve	R =	1.07	Rn =	1.15
w/ high Rn	MDCRP =	12.595		
MSPCn = $[\$105/6 + (1.15)*12.595*(1.07-1)/(1.18-1)]/(1+1.15) =$				
\$ 10.76				
MWPCn = $10.76 - 12.595*(1.07-1)/(1.18-1) =$ \$ 5.86				
DGO On Revenues = MSPCn x 6 + MWPCn x 6 x Rn = \$ 105.00				

ISO Formula - Applicable to Cases 1-9

$$\text{MSPCn} = [\text{AMPC}/6 + (\text{Rn}) * \text{MDCRP} * (\text{R}-1) / (\text{DCL}-1)] / (1+\text{Rn})$$

$$\text{MWPCn} = \text{MSPCn} - \text{MDCRP} * (\text{R}-1) / (\text{DCL}-1)$$

Case 7 AMPC = \$105 DCL = 1.18
YR 3 Curve R = 1.07 Rn = **1.07**
w/ avg Rn MDCRP = **\$15.00**

$$\text{MSPCn} = [\$105/6 + (1.07)*15*(1.07-1)/(1.18-1)]/(1+1.07) =$$

$$\text{\$ } \mathbf{11.47}$$

$$\text{MWPCn} = 11.47 - 15*(1.07-1)/(1.18-1) = \text{\$ } \mathbf{5.64}$$

$$\text{DGO n Revenues} = \text{MSPCn} \times 6 + \text{MWPCn} \times 6 \times \text{Rn} = \text{\$ } 105.00$$

Case 8 AMPC = \$105 DCL = 1.18
YR 3 Curve R = 1.07 Rn = **1.04**
w/ low Rn MDCRP = **\$15.00**

$$\text{MSPCn} = [\$105/6 + (1.04)*15*(1.07-1)/(1.18-1)]/(1+1.04) =$$

$$\text{\$ } \mathbf{11.55}$$

$$\text{MWPCn} = 11.55 - 15*(1.07-1)/(1.18-1) = \text{\$ } \mathbf{5.72}$$

$$\text{DGO n Revenues} = \text{MSPCn} \times 6 + \text{MWPCn} \times 6 \times \text{Rn} = \text{\$ } 105.00$$

Case 9 AMPC = \$105 DCL = 1.18
YR 3 Curve R = 1.07 Rn = **1.15**
w/ high Rn MDCRP = **\$15.00**

$$\text{MSPCn} = [\$105/6 + (1.15)*15*(1.07-1)/(1.18-1)]/(1+1.15) =$$

$$\text{\$ } \mathbf{11.26}$$

$$\text{MWPCn} = 11.26 - 15*(1.07-1)/(1.18-1) = \text{\$ } \mathbf{5.43}$$

$$\text{DGO n Revenues} = \text{MSPCn} \times 6 + \text{MWPCn} \times 6 \times \text{Rn} = \text{\$ } 105.00$$

Wemple Formula Applicable to Cases 10-13

$$\text{MSPCn} = \text{AMPC} / (6 * (1+\text{Rn}*(\text{DCL}-\text{R})/(\text{DCL}-1)))$$

$$\text{MWPCn} = \text{MSPCn} * [(\text{DCL} - \text{R}) / (\text{DCL}-1)]$$

Case 10 AMPC = \$ 105 DCL = 1.18
w/ avg Rn R = 1.07 Rn = **1.07**

$$\text{MSPCn} = \$105 / (6 * (1+1.07*(1.18-1.07)/(1.18-1))) =$$

$$\text{\$ } \mathbf{10.58}$$

$$\text{MWPCn} = 10.58 * [(1.18 - 1.07)/(1.18-1)] = \text{\$ } \mathbf{6.47}$$

$$\text{DGO n Revenues} = \text{MSPCn} \times 6 + \text{MWPCn} \times 6 \times \text{Rn} = \text{\$ } 105.00$$

Case 11 AMPC = \$ 105 DCL = 1.18
w/ low Rn R = 1.07 Rn = **1.04**

$$\text{MSPCn} = \$105 / (6 * (1+1.04*(1.18-1.07)/(1.18-1))) =$$

$$\text{\$ } \mathbf{10.70}$$

$$\text{MWPCn} = 10.70 * [(1.18 - 1.07)/(1.18-1)] = \text{\$ } \mathbf{6.54}$$

$$\text{DGO n Revenues} = \text{MSPCn} \times 6 + \text{MWPCn} \times 6 \times \text{Rn} = \text{\$ } 105.00$$

Case 12 AMPC = \$ 105 DCL = 1.18
w/ high Rn R = 1.07 Rn = **1.15**

$$\text{MSPCn} = \$105 / (6 * (1+1.15*(1.18-1.07)/(1.18-1))) =$$

$$\text{\$ } \mathbf{10.28}$$

$$\text{MWPCn} = 10.28 * [(1.18 - 1.07)/(1.18-1)] = \text{\$ } \mathbf{6.28}$$

$$\text{DGO n Revenues} = \text{MSPCn} \times 6 + \text{MWPCn} \times 6 \times \text{Rn} = \text{\$ } 105.00$$