

Definitions

WAPR = Weighted Average Portfolio Return

IPV = Initial Portfolio Value

PV = Portfolio Value

PV# = Portfolio Value end of # shown (PV1 = PV at end of year 1)

TPC = Time Period Chosen

YPID = Yearly Portfolio Income Distribution (Dist. \$ to Bucket)

IBA = Initial Bucket Amount

YBDA = Yearly Bucket Distribution Amount (IBA / Yrs chosen)

BA = Bucket Amount

A\$C = Annual \$ Contribution

A%C = Annual Percentage Contribution

B\$C = Bucket \$ Contribution (year 1 only)

1) **EPV** = Estimated Portfolio Value in a given year

Calculation = $IPV + WAPR$ for single year chosen

2) **EPV-10** = Estimated Portfolio Value for 10 years

Calculation = $IPV + WAPR$ 10 years back from TPC = PV1

$PV1 + WAPR$ 9 years back = PV2

$PV2 + WAPR$ 8 years back = PV3

...continue through PV10

3) **EPV-10 w/ Reserve Bucket and Annual Distribution**

Est. Portfolio Value Calculation = $(IPV + WAPR$ 10 years back from TPC) - YPID = PV1

$PV1 + WAPR$ 9 years back - YPID = PV2

$PV2 + WAPR$ 8 years back - YPID = PV3

...continue through PV10

Est. Reserve Bucket Value Calculation = $(IBA - YBDA) + YPID = BA1$

$BA1 - YBDA + YPID = BA2$

$BA2 - YBDA + YPID = BA3$

...continue through BA10

- 4) **ACC-10** = Accumulated Portfolio Value for 10 years (no additional \$ contributed; NOTE – ACC-10 with no \$ contribution gets ½ year WAPR year 1 to approximate ‘phase in’ of money during year 1, all subsequent years get full WAPR)

Calculation = $IPV + (WAPR\ 10\ years\ back\ from\ TPC / 2) = PV1$ {w/ 1/2 yr interest year 1 only}

$PV1 + WAPR\ 9\ years\ back = PV2$

$PV2 + WAPR\ 8\ years\ back = PV3$

...continue through PV10

- 5) **ACC-10 w/ Additional \$ Contributed (Dollars)** = Non-Bucket is annual contributions (NOTE – Annual contributions receive ½ year WAPR for ALL years to approximate ‘phase in’ of money during each year)

Calculation = $[IPV + (WAPR-10)] + [A\$C + (WAPR-10 / 2)] = PV1$ {w/ 1/2 yr interest year 1 only}

$(PV1 + WAPR-9) + [A\$C + (WAPR-9 / 2)] = PV2$

$(PV2 + WAPR-8) + [A\$C + (WAPR-8 / 2)] = PV3$

...continue through PV10

- 6) **ACC-10 w/ Additional \$ Contributed (Percentages)** = Non-Bucket is annual contributions (NOTE – Annual contributions receive ½ year WAPR for ALL years to approximate ‘phase in’ of money during each year)

Calculation = $\{IPV + (WAPR-10)\} + \{[(A\%C/100) \times 100] + [(WAPR-10/100)] / 2\} = PV1$ {w/ 1/2 yr interest year 1 only}

$(PV1 + WAPR-9) + \{[(A\%C/PV1) \times 100] + [(WAPR-9/100)] / 2\} = PV2$

$(PV1 + WAPR-8) + \{[(A\%C/PV2) \times 100] + [(WAPR-8/100)] / 2\} = PV3$

$(PV1 + WAPR-7) + \{[(A\%C/PV3) \times 100] + [(WAPR-7/100)] / 2\} = PV4$

$(PV1 + WAPR-6) + \{[(A\%C/PV4) \times 100] + [(WAPR-6/100)] / 2\} = PV5$

$(PV1 + WAPR-5) + \{[(A\%C/PV5) \times 100] + [(WAPR-5/100)] / 2\} = PV6$

$(PV1 + WAPR-4) + \{[(A\%C/PV6) \times 100] + [(WAPR-4/100)] / 2\} = PV7$

$(PV1 + WAPR-3) + \{[(A\%C/PV7) \times 100] + [(WAPR-3/100)] / 2\} = PV8$

$(PV1 + WAPR-2) + \{[(A\%C/PV8) \times 100] + [(WAPR-2/100)] / 2\} = PV9$

$(PV1 + WAPR-1) + \{[(A\%C/PV9) \times 100] + [(WAPR-1/100)] / 2\} = PV10$

- 7) **ACC-10 w/ Bucket \$ Contributed** = Bucket is one time, year 1

Calculation = $IPV + (WAPR-10) + [B\$C + (WAPR-10 / 2)] = PV1$ {w/ 1/2 yr interest year 1 only}

$(PV1 + WAPR-9) = PV2$

$(PV2 + WAPR-8) = PV3$

...continue through PV10