

# Consensus Worksheet 3

## Collective Weighting

1. Evaluator names go in left column.
2. Label segments in appropriate row. For each evaluator and this scenario, transfer each segment's value from Consensus Worksheet 2, line 2 to the appropriate column (segment) on this page.
3. Add each column and put this sum in the "Subtotal Down" space at the bottom of each column.
4. Add the "Subtotal Down" row across and put sum in "Subtotal Across" space at right of row. This value now becomes the denominator for the segment fraction that will become the POA value.
5. Calculate Consensus POAs for this scenario by dividing each "Subtotal Down" figure under each segment column by the "Subtotal Across." (Subtotal Down ÷ Total of all columns = POA for Each Segment). The results are Consensus POAs for this scenario.

Region or Segment Designation →		②							
		A	B	C	D	E	F	G	
① Evaluator Names	Andrew	33	50	60	25	10	100	75	
	Price	25	20	20	33	12.5	100	50	
	Green	50	40	100	20	20	75	60	
	Smith	20	33	100	30	25	100	50	
	Evans	33	33	100	12.5	10	100	75	
									Subtotal Across ↓ ④
③	Subtotal Down	161	176	380	120.5	77.5	475	310	1700
⑤	Consensus POAs	$\frac{161}{1700}$	$\frac{176}{1700}$	$\frac{380}{1700}$	$\frac{120.5}{1700}$	$\frac{77.5}{1700}$	$\frac{475}{1700}$	$\frac{310}{1700}$	100 %
	③ ÷ ④ = POA	10%	10%	22%	07%	05%	28%	18%	

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- Average the planning POA values in the usual manner (See Worksheet # 3). Remember that while these values are established initially through a subjective process, these values are going to shift and change as the search proceeds when resources are committed to each search segment.
- An example adapted from Hill (1992) is tabulated in the tables on the next page and in Figure 17-15 as a composite for all segments. The example considers a search with seven segments (A through G) with three scenarios that have all the segments in common. These figures were derived on Consensus Worksheet #1 on page 303. Scenario 1, probability = .11, Scenario 2, probability = .35 and Scenario 3, probability = .54.

### Planning POAs for all Scenarios

In summary of the above example, search planner(s) come up with several different scenarios and assign a probability for each scenario based on what is perceived to be the most likely occurrences. Values are assigned in this process which give the percentage chance for each scenario to have occurred. (In this case, those values are 11%, 35%, and 54% for scenarios 1, 2, and 3 respectively.) Next we multiply the POA values for each segment in a region by the weighting factor of each possible scenario (Region of Probability - .11, .35, and .54) and then add those values to give the total POA (in each segment) for all three scenarios. This method allows a search manager to consider the influences of all three scenarios at the same time.