

Dealing with Data Suppression

		First Iteration: Use Midpoint	First Iteration x Adjustment Factor	Second Iteration (Proportional Distribution)
48-49	Transportation & warehousing	49,814		
481	Air transportation	g 1,750 *	-73.53	1,676.47
483	Water transportation	e 375 *	-15.76	359.24
484	Truck transportation	13,906 13,906		13,906.00
485	Transit & ground passenger transportation	g 1,750 *	-73.53	1,676.47
486	Pipeline transportation	b 60 *	-2.52	57.48
487	Scenic & sightseeing transportation	c 175 *	-7.35	167.65
488	Support activities for transportation	3,693 3,693		3,693.00
492	Couriers & messengers	j 17,500 *	-735.31	16,764.69
493	Warehousing & storage	11,513 11,513		11,513.00
Iteration Total:		50,722		49,814
Amount Iteration is Off By (Actual Total - Iteration Total):		(908)		
Sum of Midpoints:		21,610		
Adjustment Factor (Amount Iteration is Off by / Sum of Midpoints):		(0.04)		

First Iteration:

Enter the midpoints of the ranges for the suppressed sub-sectors

Sum to get the iteration total

Subtract the iteration total from the actual total to find out how far off the estimate is

$$49,814 - 50,722 = -908$$

You might have a positive number [too few employees in the iteration] instead. Just be sure to retain the sign throughout the remaining calculations

Second Iteration:

Find the sum of the midpoint estimates you used in the first iteration

$$1,750 + 375 + 1,750 + 1,750 + 60 + 175 + 17,500 = 21,610$$

Divide as follows: Amount iteration is off by / Sum of midpoints

$$-908 / 21,610 = -0.04$$

Multiply each midpoint by the result to find the amount to adjust by

$$1,750 * -0.04 = -73.53$$

Adjust each midpoint by the result

$$1,750 - 73.53 = 1,676.47$$

Sum the sector again and round the new estimates

Suppressed Data Ranges and Midpoints:

a: 0 - 19 employees	10
b: 20 - 99 employees	60
c: 100 - 249 employees	175
e: 250 - 499 employees	375
f: 500 - 999 employees	750
g: 1,000 - 2,499 employees	1,750
h: 2,500 - 4,999 employees	3,750
i: 5,000 - 9,999 employees	7,500
j: 10,000 - 24,999 employees	17,500
k: 25,000 - 49,999 employees	37,500
l: 50,000 - 99,999 employees	75,000
m: 100,000 or more employees	