

For each state...

In words:

- 1) do element-wise multiplication of AlwaysMasked and pop_size:
- 2) sum up all the products to get one number:
- 3) sum up all the elements within pop_size:
- 4) divide sum in 2) by sum in 3):

AlwaysMasked*pop_size
sum(AlwaysMasked*pop_size)
sum(pop_size)
sum(AlwaysMasked*pop_size)/sum(pop_size)

In pictures:

1. Element-wise multiplication:

	Element 1	Element 2	Element 3	Element 4	Element 5
AlwaysMasked	0.23	0.54	0.33	0.83	0.73
pop_size	1000	3000	200000	40000	10000
AlwaysMasked*pop_size	0.23*1000	0.54*3000	0.33*200000	0.83*40000	0.73*10000

2. Sum up all the products within AlwaysMasked*pop_size:

	Element 1	Element 2	Element 3	Element 4	Element 5					
sum(AlwaysMasked*pop_size)	0.23*1000	+	0.54*3000	+	0.33*200000	+	0.83*40000	+	0.73*10000	= 108350

3. Sum up all the products within AlwaysMasked*pop_size:

	Element 1	Element 2	Element 3	Element 4	Element 5					
sum(pop_size)	1000	+	3000	+	200000	+	40000	+	10000	= 254000