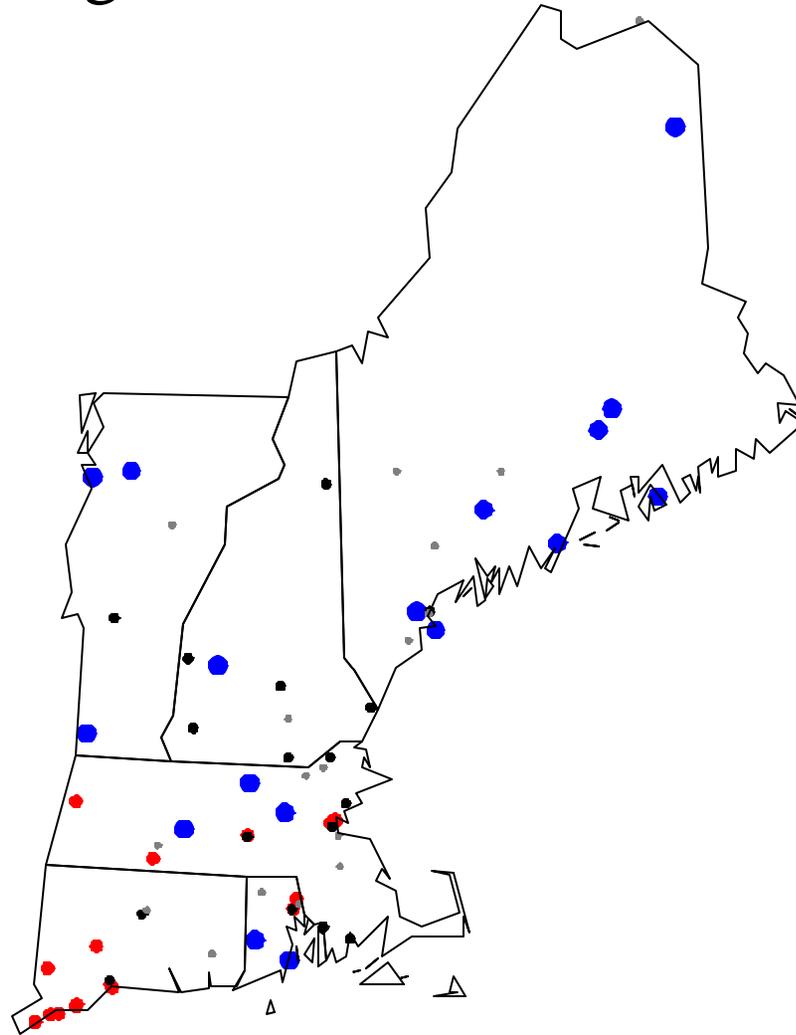


# National Assessment of the Existing Criteria Pollutant Monitoring Networks

## PM<sub>2.5</sub> Regional Maps

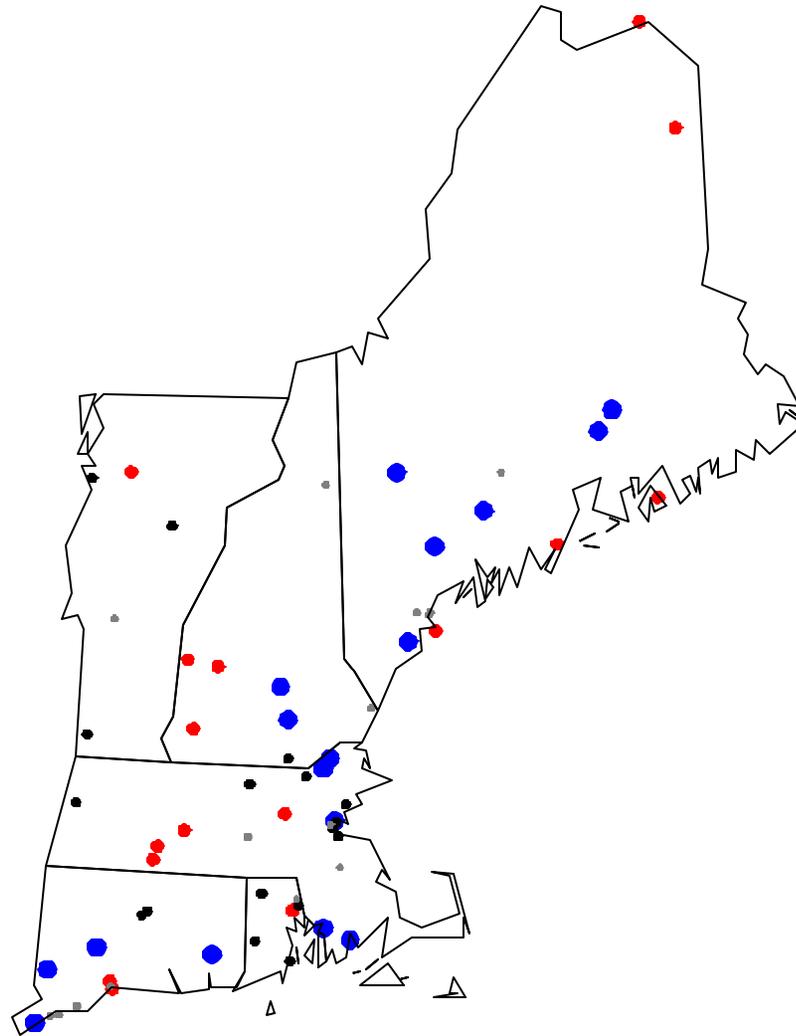
Part 5 - July 1, 2001

# Region 1 PM25 Annual Mean: Red=Large Value, Blue=Small Value



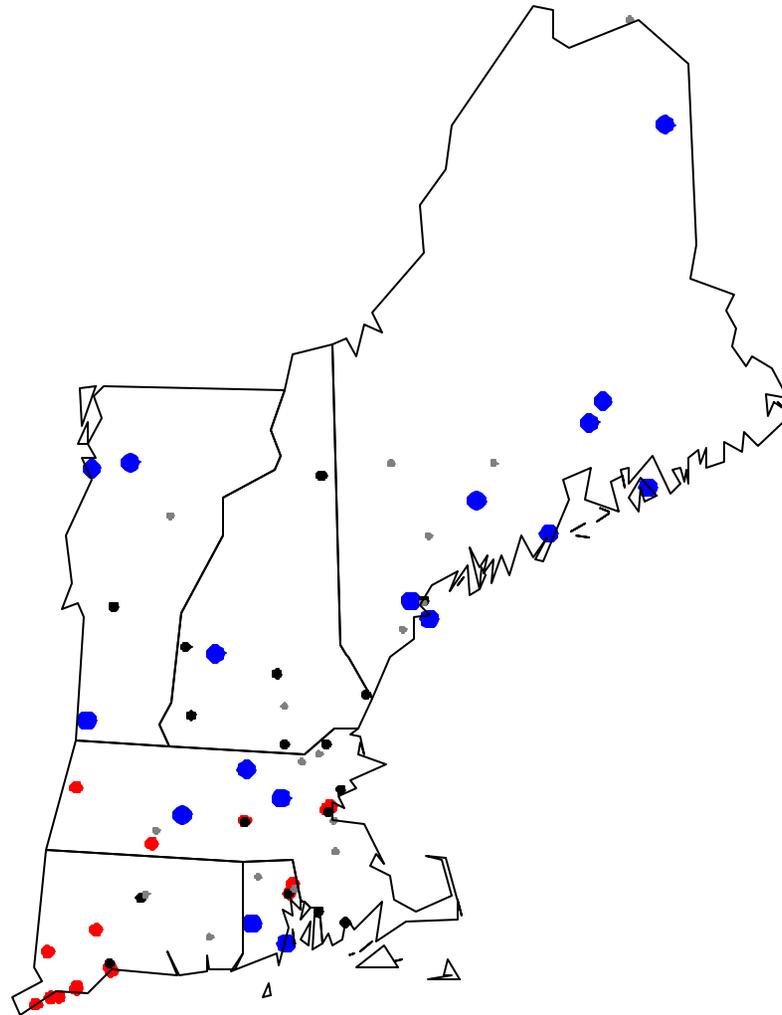
PM25 Annual Mean: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 1 Predicting PM25 Annual Mean: Red=High Uncertainty, Blue=Low Uncertainty



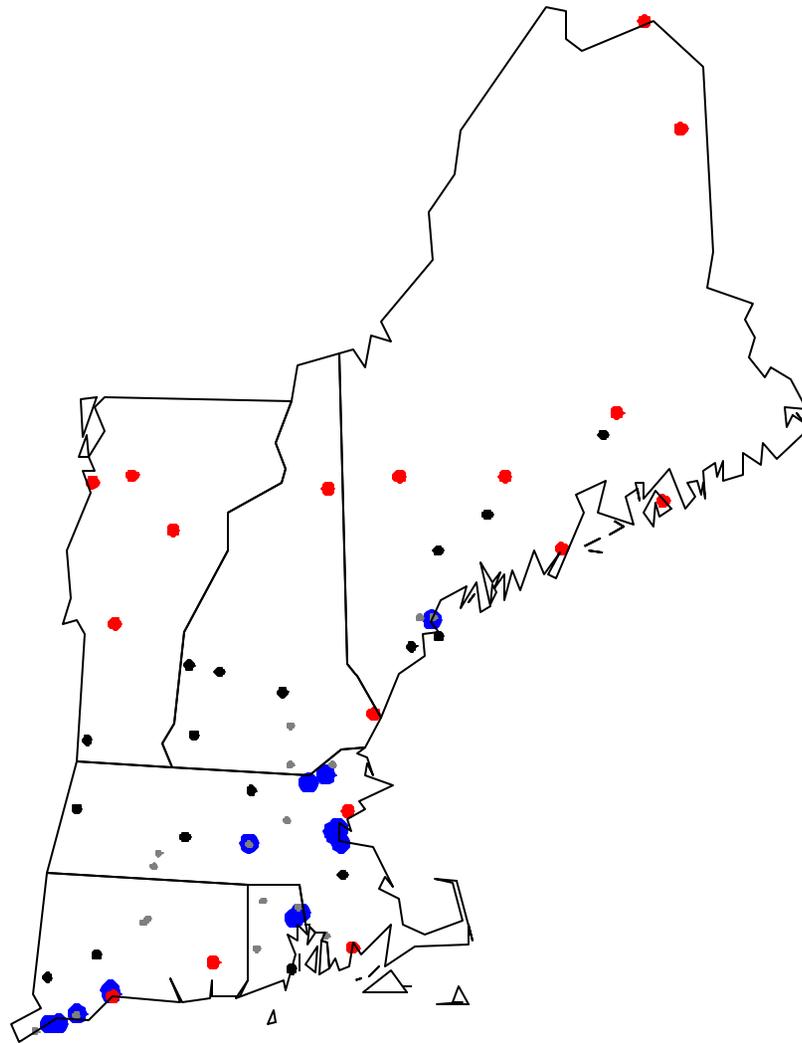
Predicting PM25 Annual Mean: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 1 Deviation from PM25 Annual Mean NAAQS: Red=Small Deviation, Blue=Large Deviation



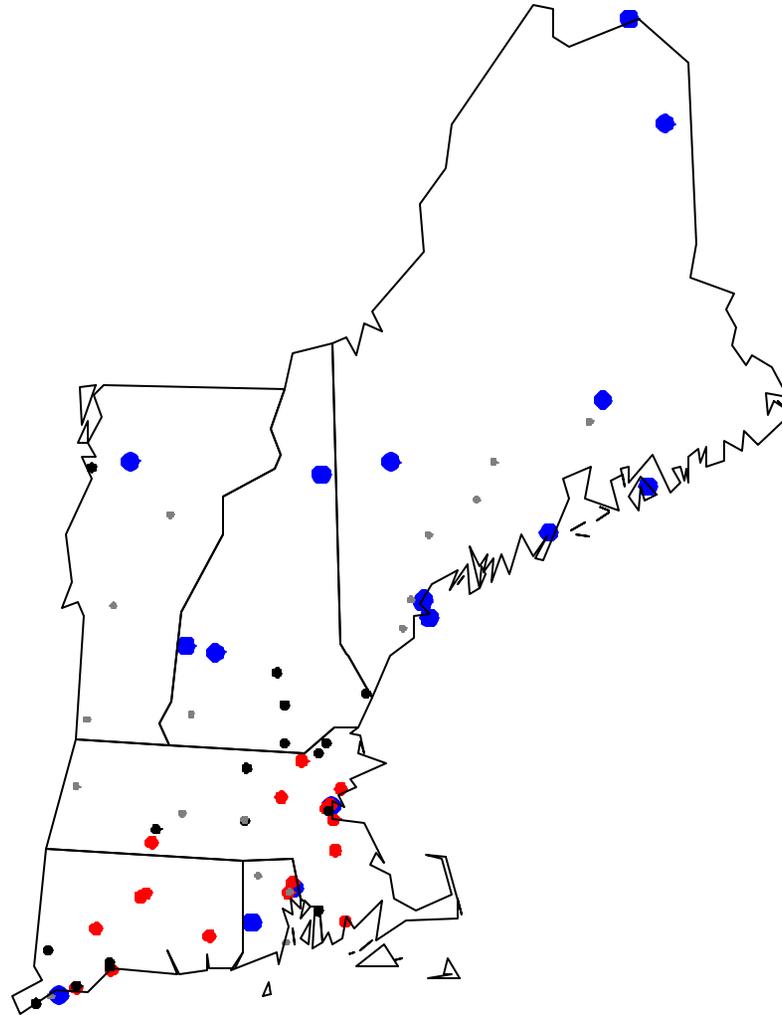
Deviation from PM25 Annual Mean NAAQS: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 1 Area for PM25 Monitors: Red=Large Area, Blue=Small Area



Area for PM25 Monitors: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 1 Population for PM25 Monitors: Red=Large Population, Blue=Small Population



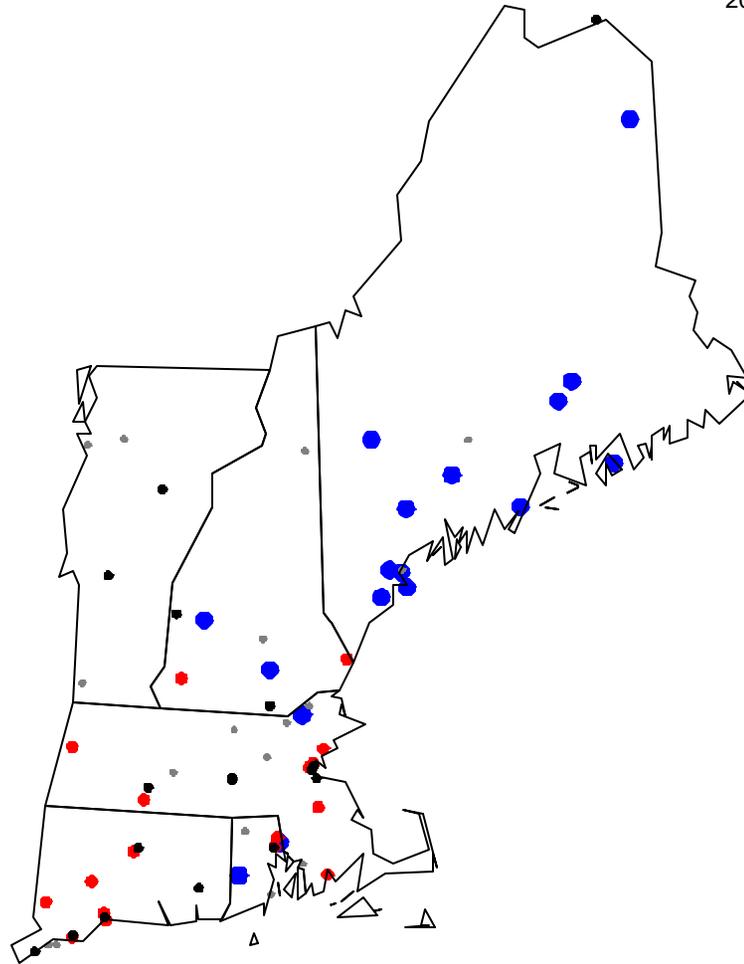
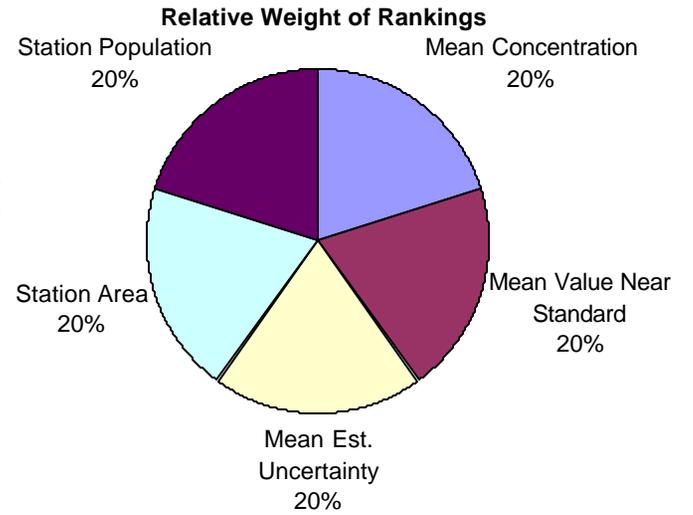
Population for PM25 Monitors: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# PM25 Quartiles

	Region 1 PM25					
	pm25mean	% of NAAQS	pm25error	dif_NAAQS_mean	area	population
Q1	12.2	81.3%	2.28125	2.8	4685.568	298974
Q2	10.85	72.3%	1.25255	4.15	1793.7	159224
Q3	9.75	65.0%	0.83225	5.25	658.628	99228

# Region 1

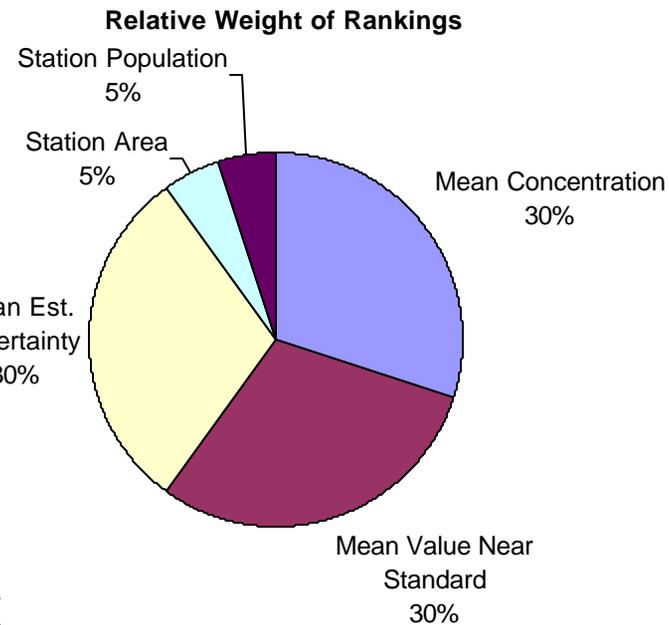
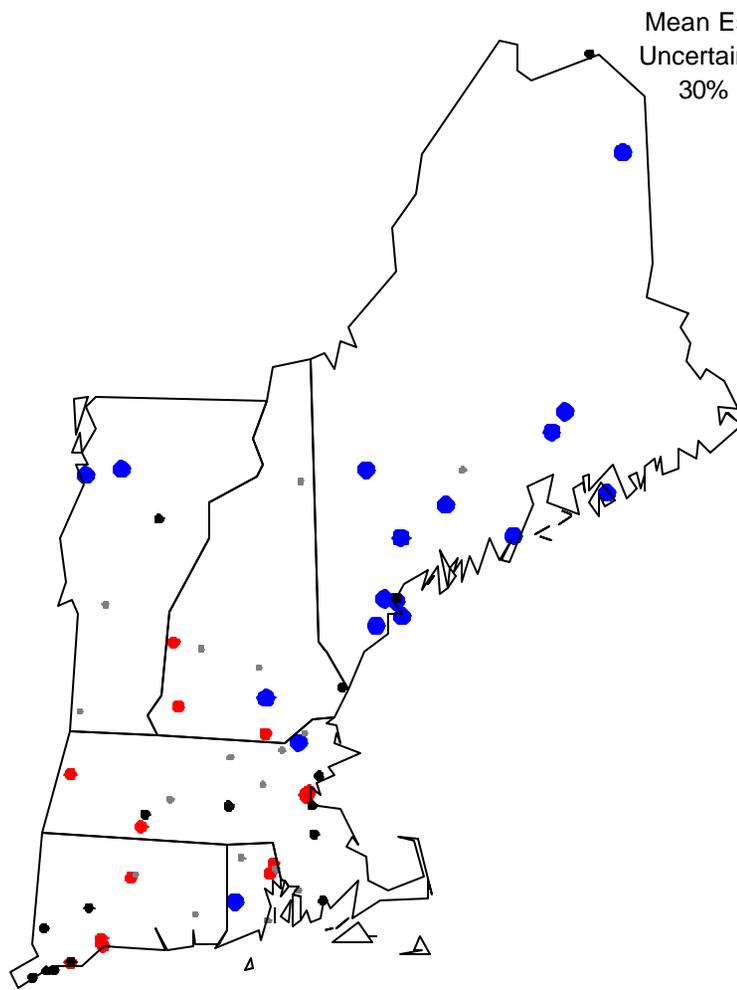
## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



PM25 Aggregate Ranking Map: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

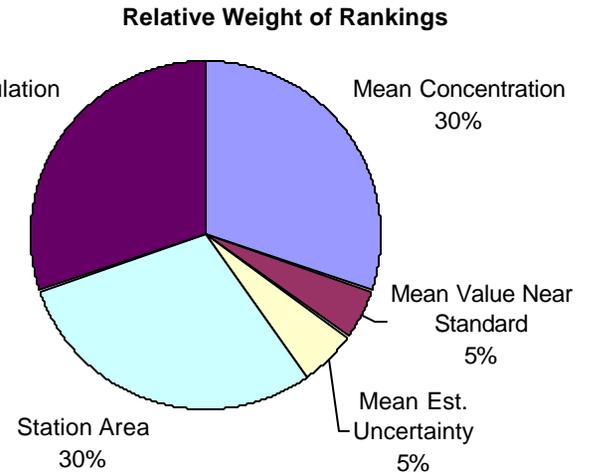
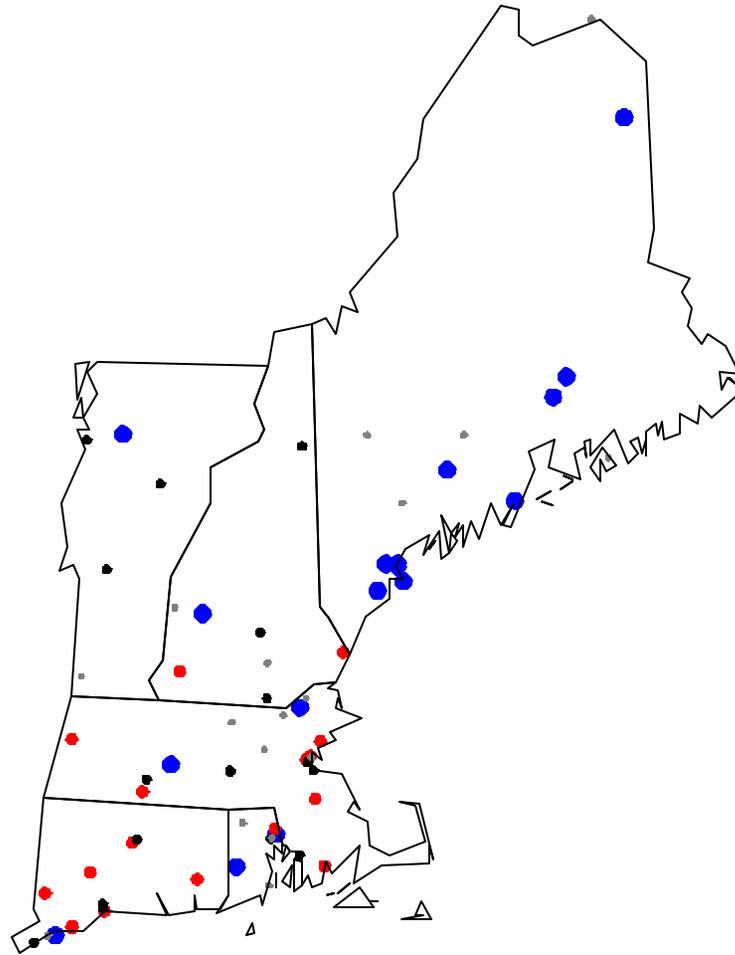
# Region 1

## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



# Region 1

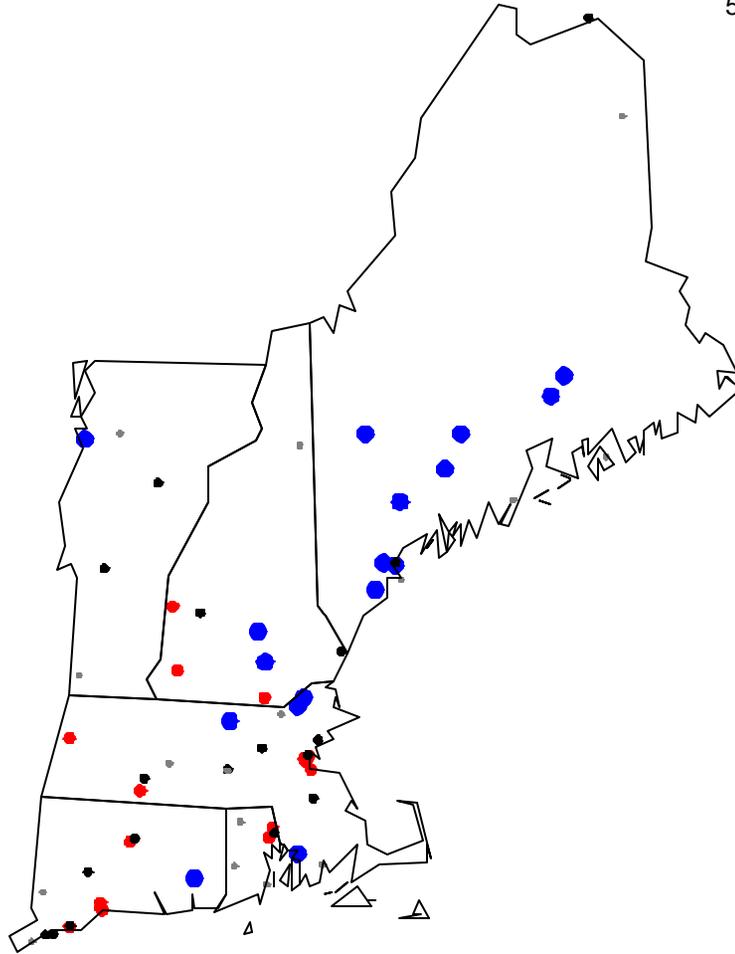
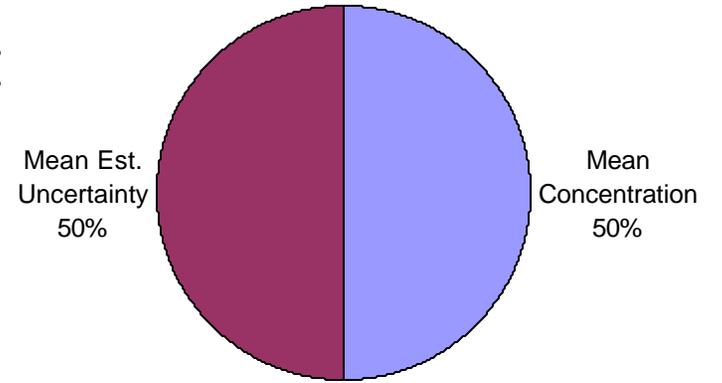
## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



# Region 1

## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value

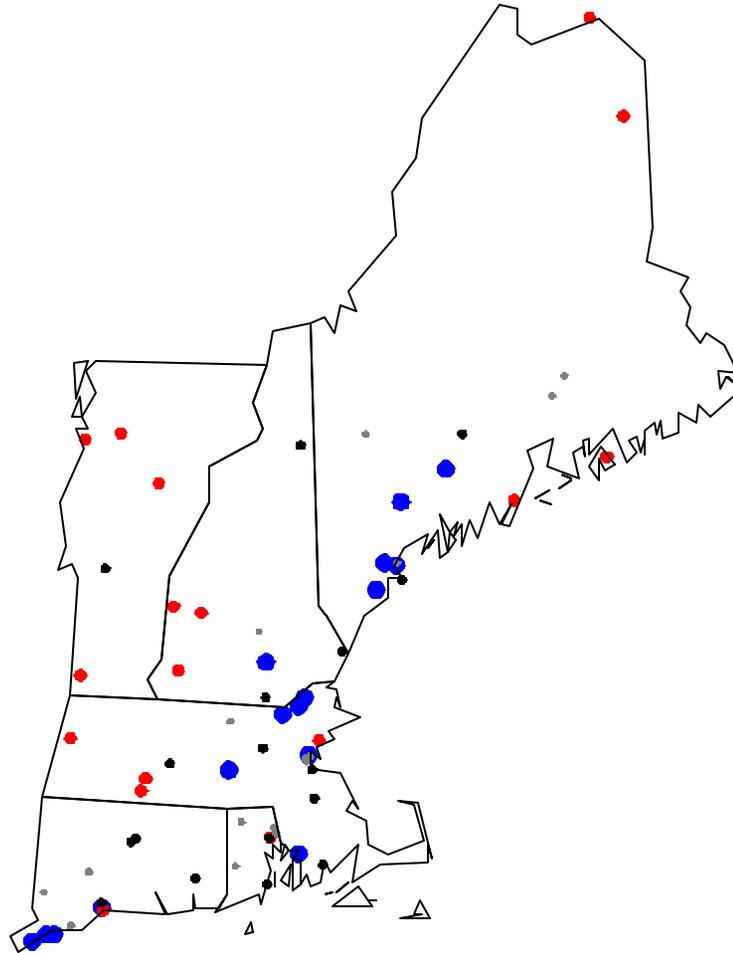
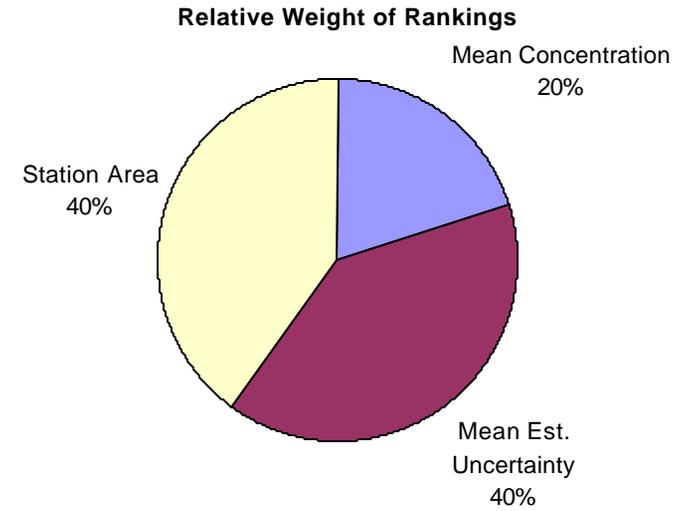
Relative Weight of Rankings



PM25 Aggregate Ranking Map C: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

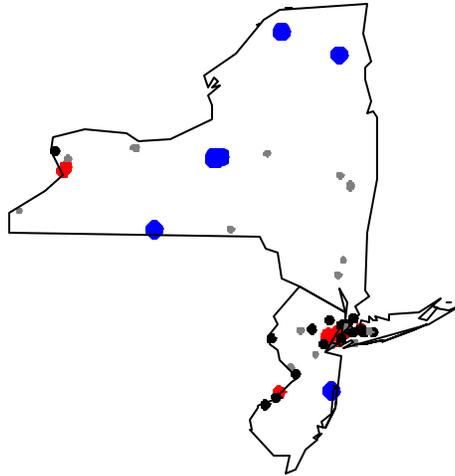
# Region 1

## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



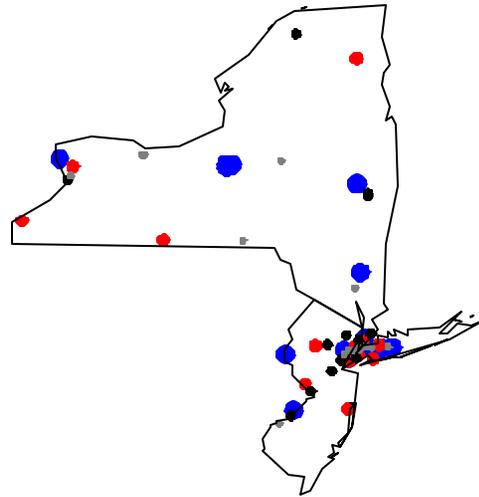
PM25 Aggregate Ranking Map D: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

# Region 2 PM25 Annual Mean: Red=Large Value, Blue=Small Value



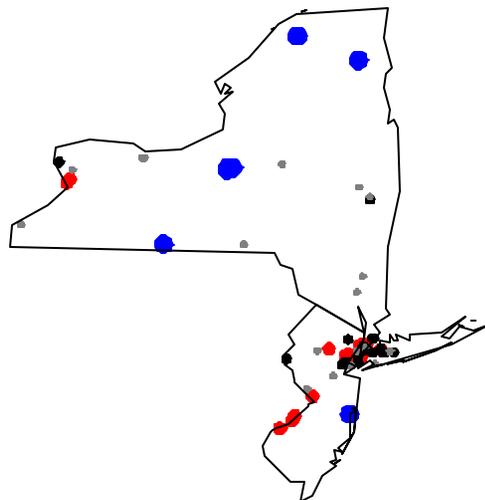
PM25 Annual Mean: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

# Region 2 Predicting PM25 Annual Mean: Red=High Uncertainty, Blue=Low Uncertainty



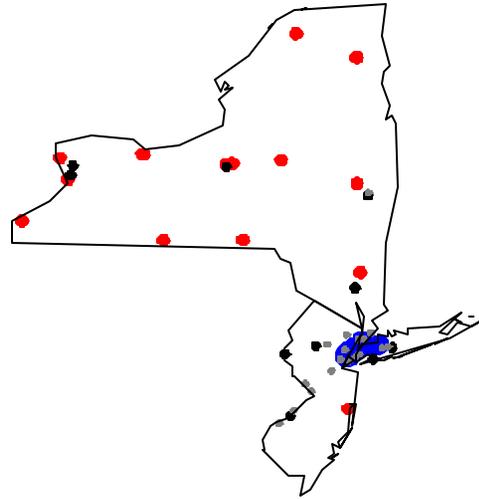
Predicting PM25 Annual Mean: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 2 Deviation from PM25 Annual Mean NAAQS: Red=Small Deviation, Blue=Large Deviation



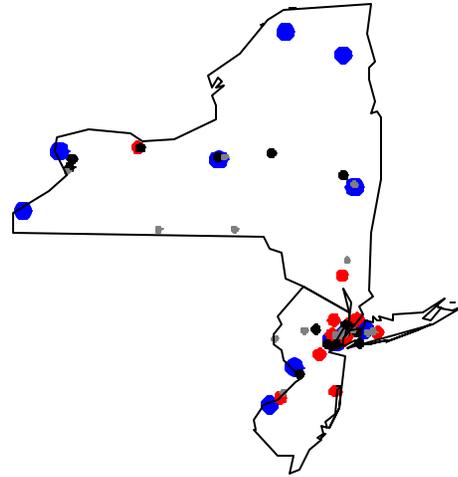
Deviation from PM25 Annual Mean NAAQS: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 2 Area for PM25 Monitors: Red=Large Area, Blue=Small Area



Area for PM25 Monitors: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 2 Population for PM25 Monitors: Red=Large Population, Blue=Small Population



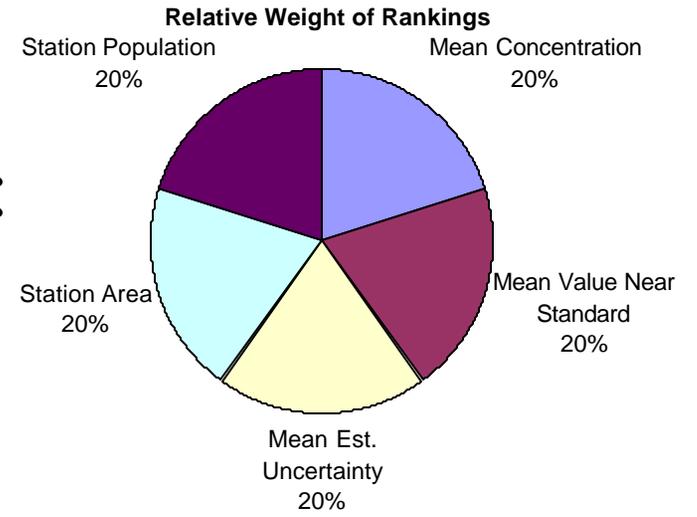
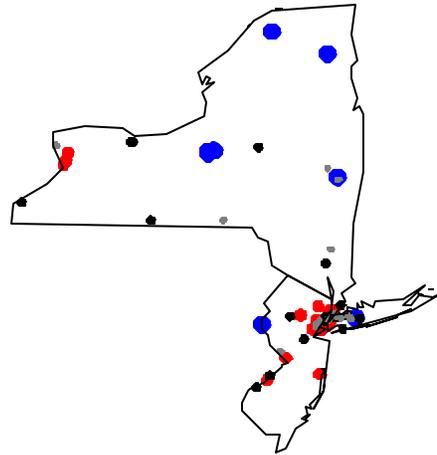
Population for PM25 Monitors: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# PM25 Quartiles

	Region 2 PM25					
	pm25mean	% of NAAQS	pm25error	dif_NAAQS_mean	area	population
Q1	14.25	95.0%	1.9322	1.15	5210.505	529939
Q2	12.65	84.3%	0.98225	2.45	1685.208	409495
Q3	10.8	72.0%	0.44135	4.2	134.7991	230778

# Region 2

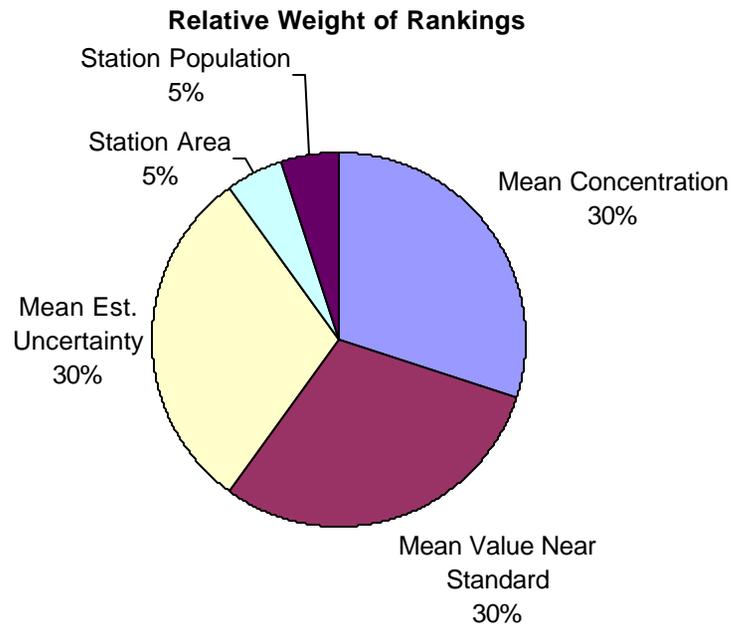
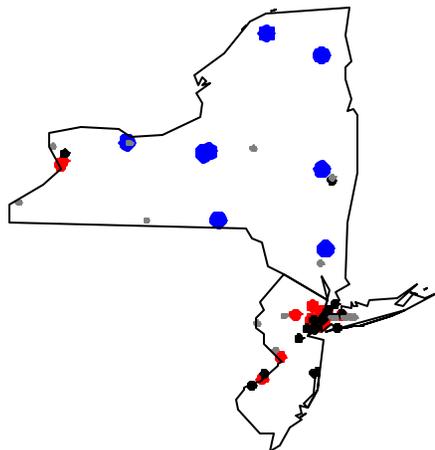
PM25 Aggregate Ranking Map:  
Red=High Value, Blue=Low Value



PM25 Aggregate Ranking Map: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

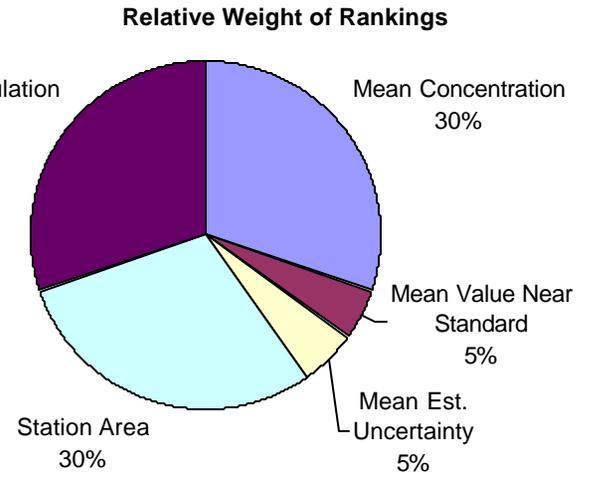
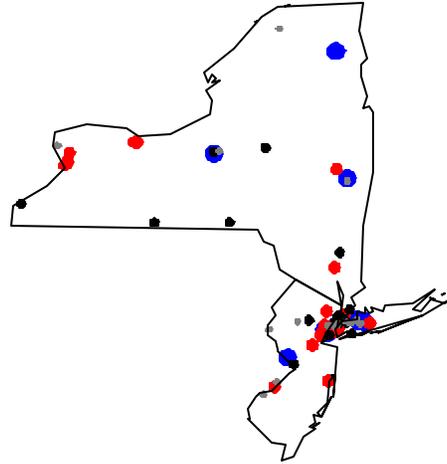
# Region 2

## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



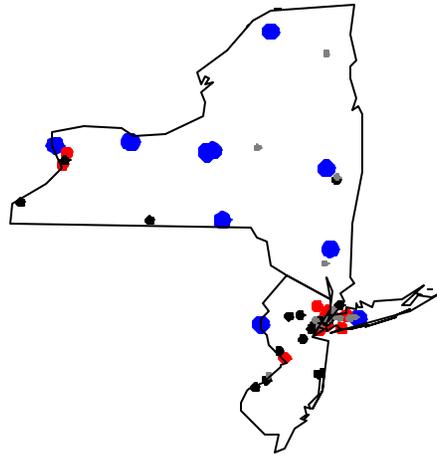
# Region 2

## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value

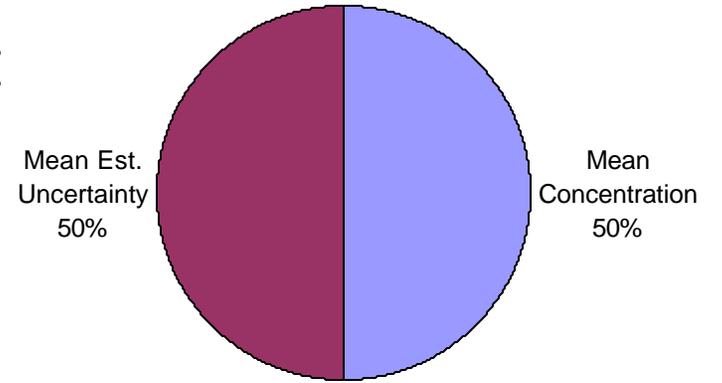


# Region 2

PM25 Aggregate Ranking Map:  
Red=High Value, Blue=Low Value



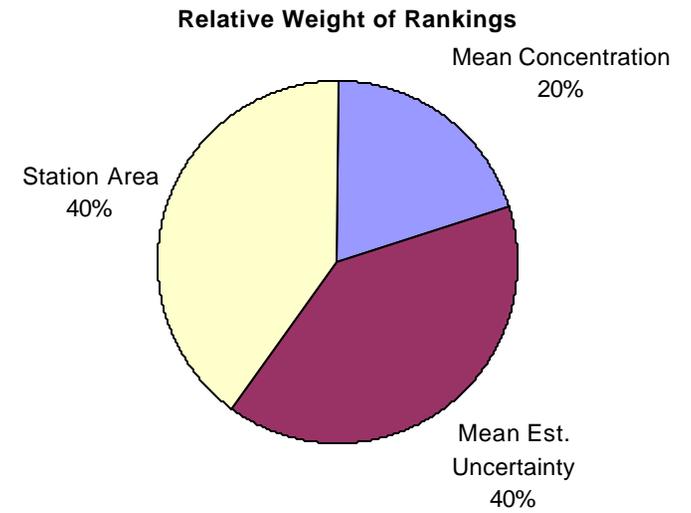
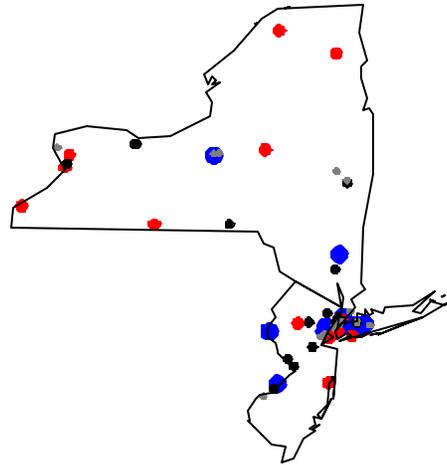
Relative Weight of Rankings



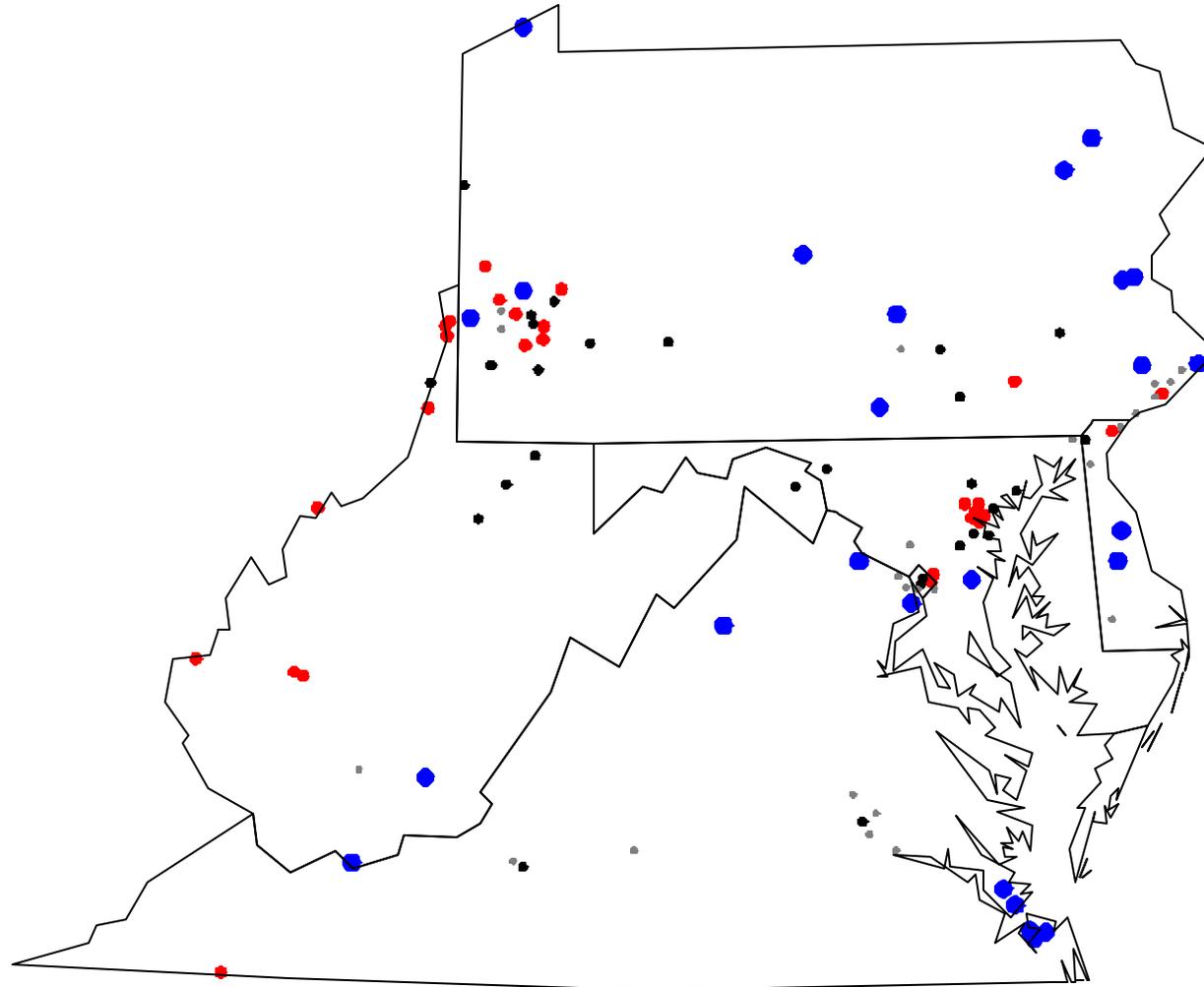
PM25 Aggregate Ranking Map C: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

# Region 2

## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value

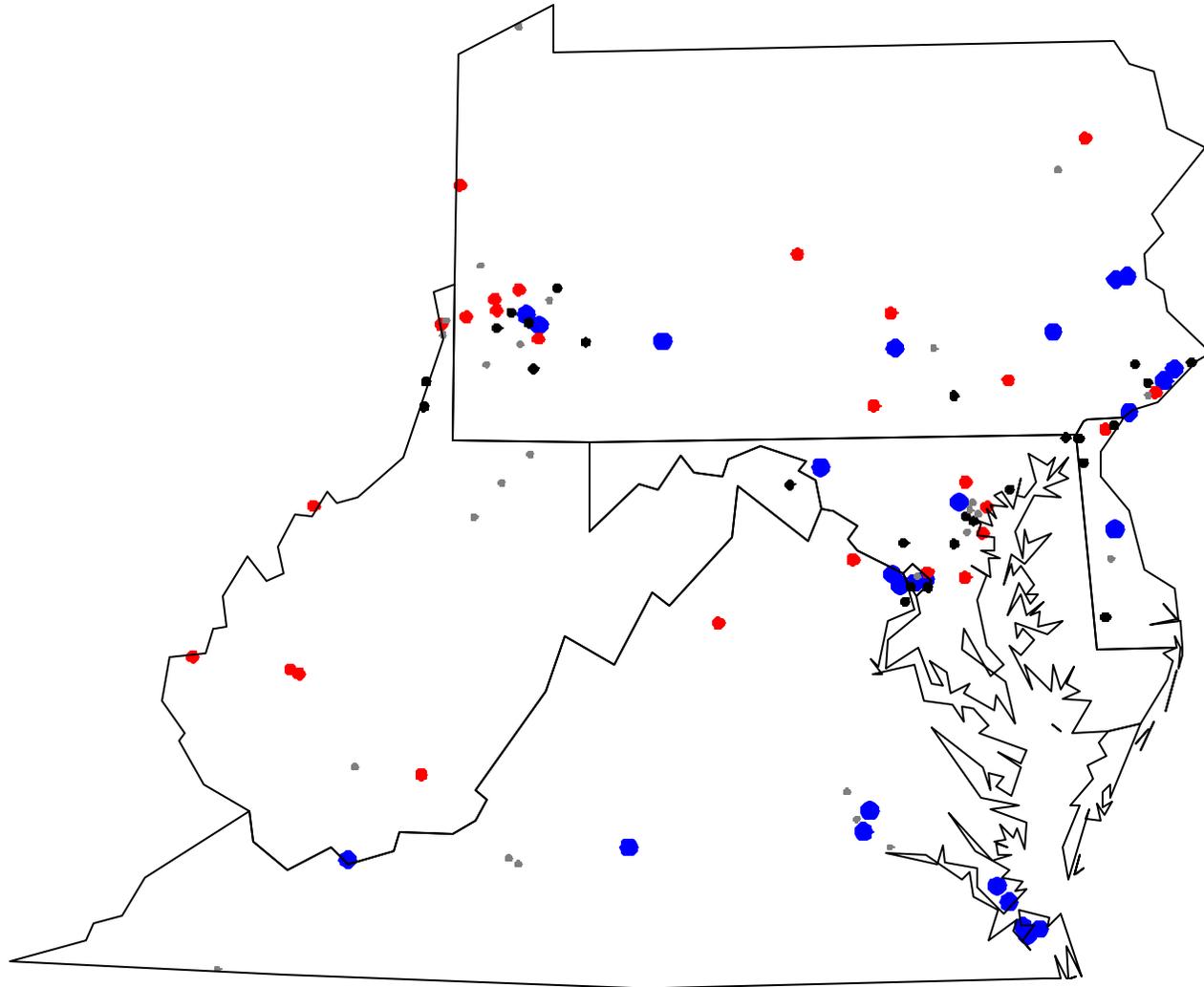


# Region 3 PM25 Annual Mean: Red=Large Value, Blue=Small Value



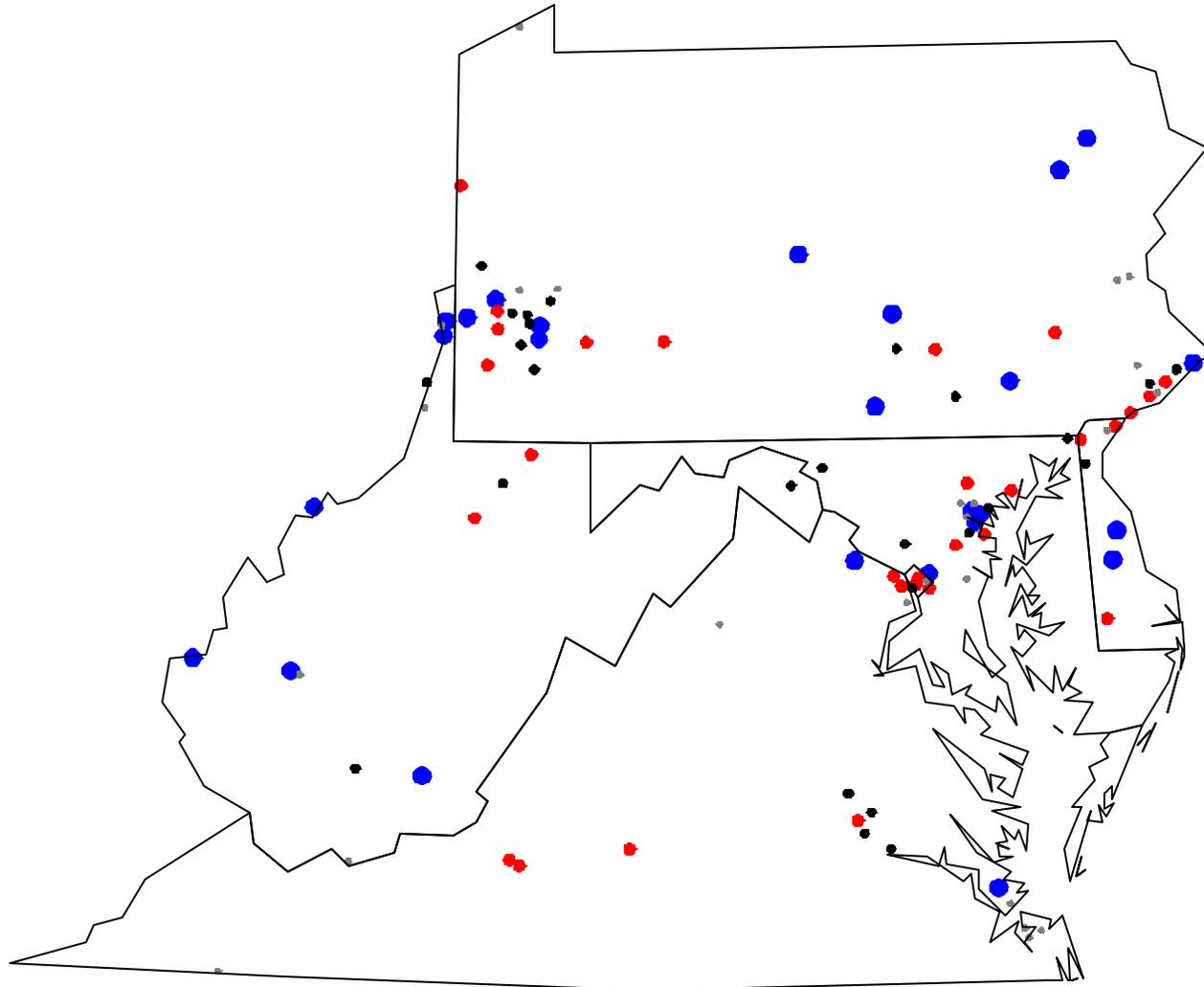
PM25 Annual Mean: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 3 Predicting PM25 Annual Mean: Red=High Uncertainty, Blue=Low Uncertainty



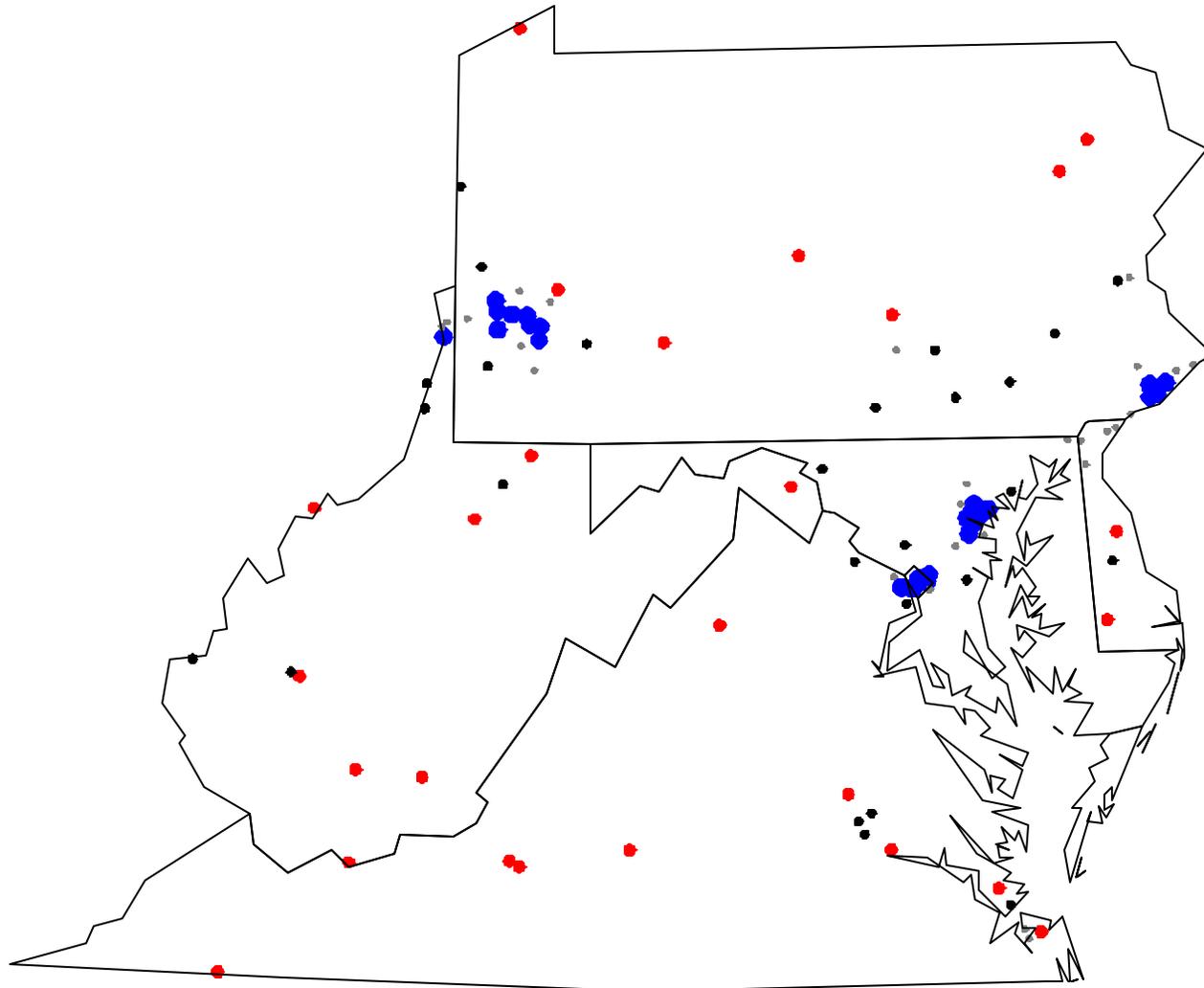
Predicting PM25 Annual Mean: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 3 Deviation from PM25 Annual Mean NAAQS: Red=Small Deviation, Blue=Large Deviation



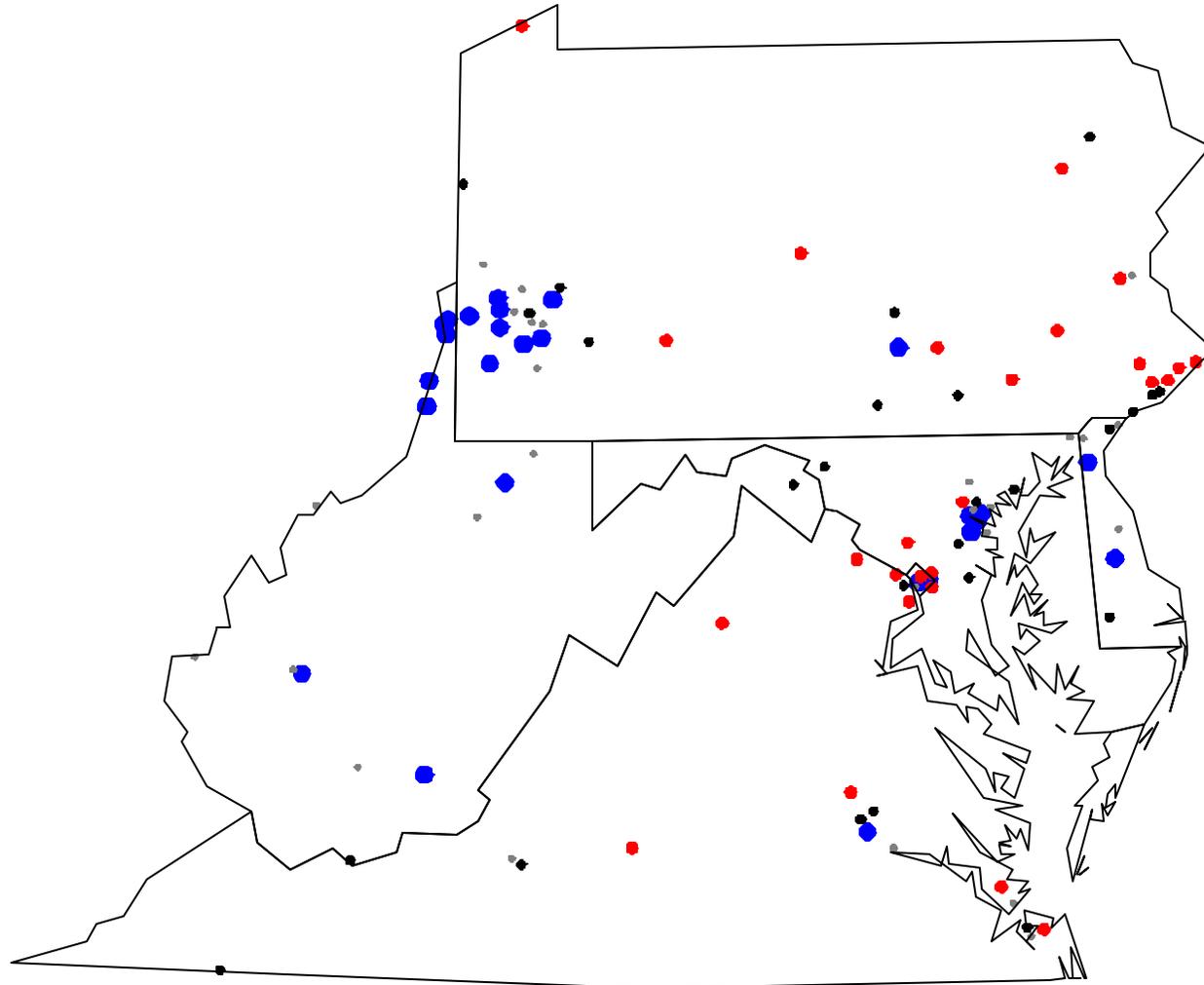
Deviation from PM25 Annual Mean NAAQS: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 3 Area for PM25 Monitors: Red=Large Area, Blue=Small Area



Area for PM25 Monitors: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 3 Population for PM25 Monitors: Red=Large Population, Blue=Small Population



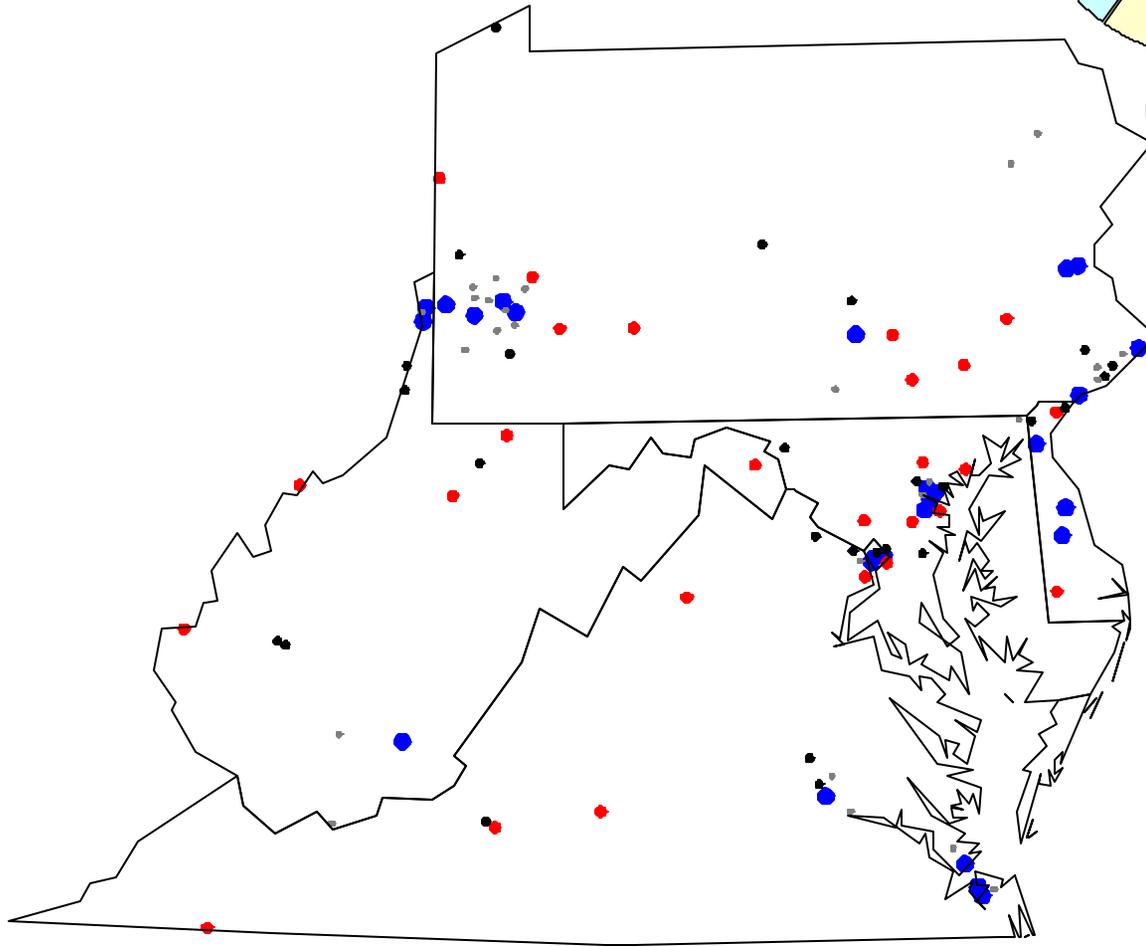
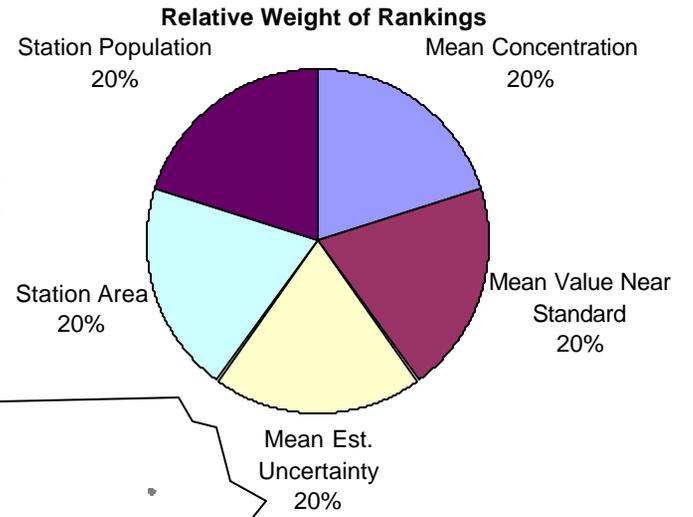
Population for PM25 Monitors: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# PM25 Quartiles

	Region 3 PM25					
	pm25mean	% of NAAQS	pm25error	dif_NAAQS_mean	area	population
Q1	16.2	108.0%	1.22755	0.5	4597.393	356185
Q2	14.9	99.3%	0.9163	1.2	1463.251	229365
Q3	13.8	92.0%	0.46045	1.8	322.3458	151734

# Region 3

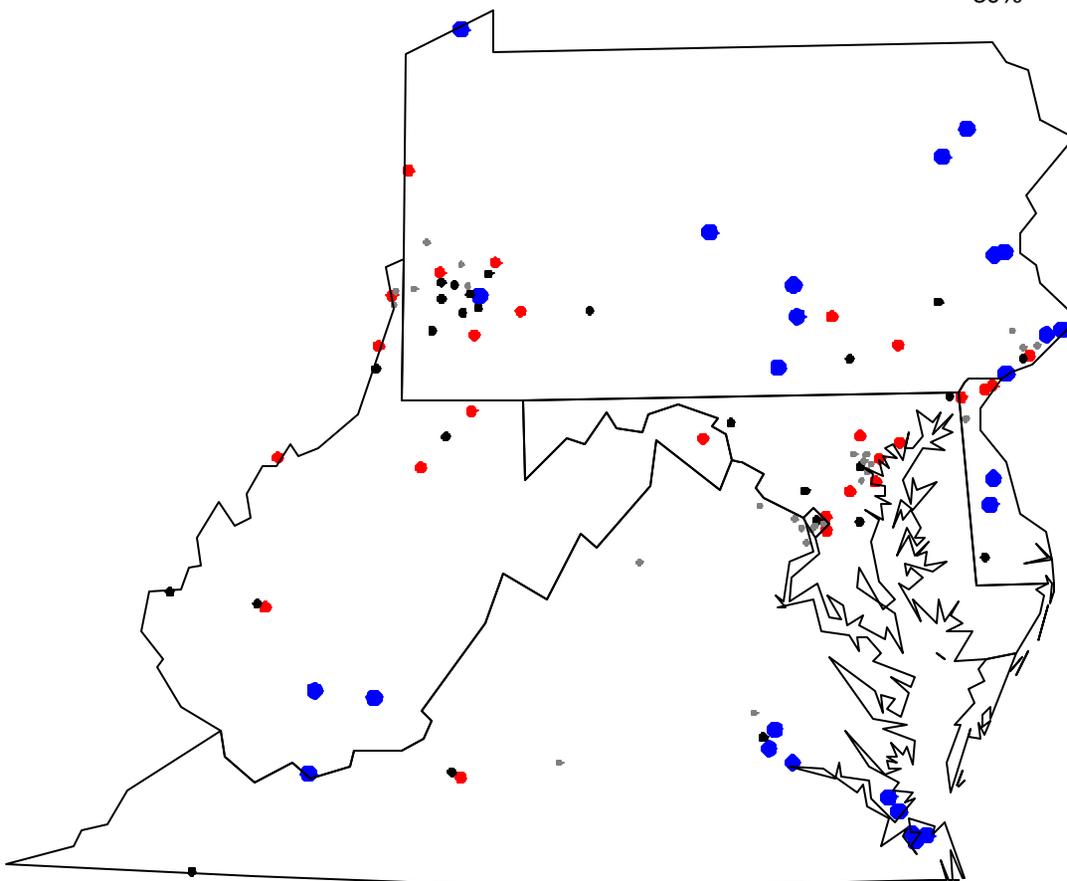
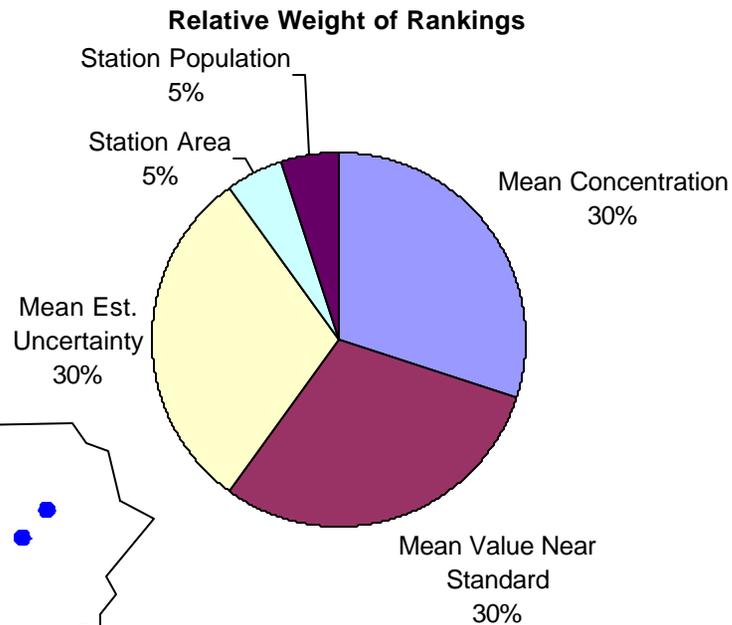
## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



PM25 Aggregate Ranking Map: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

# Region 3

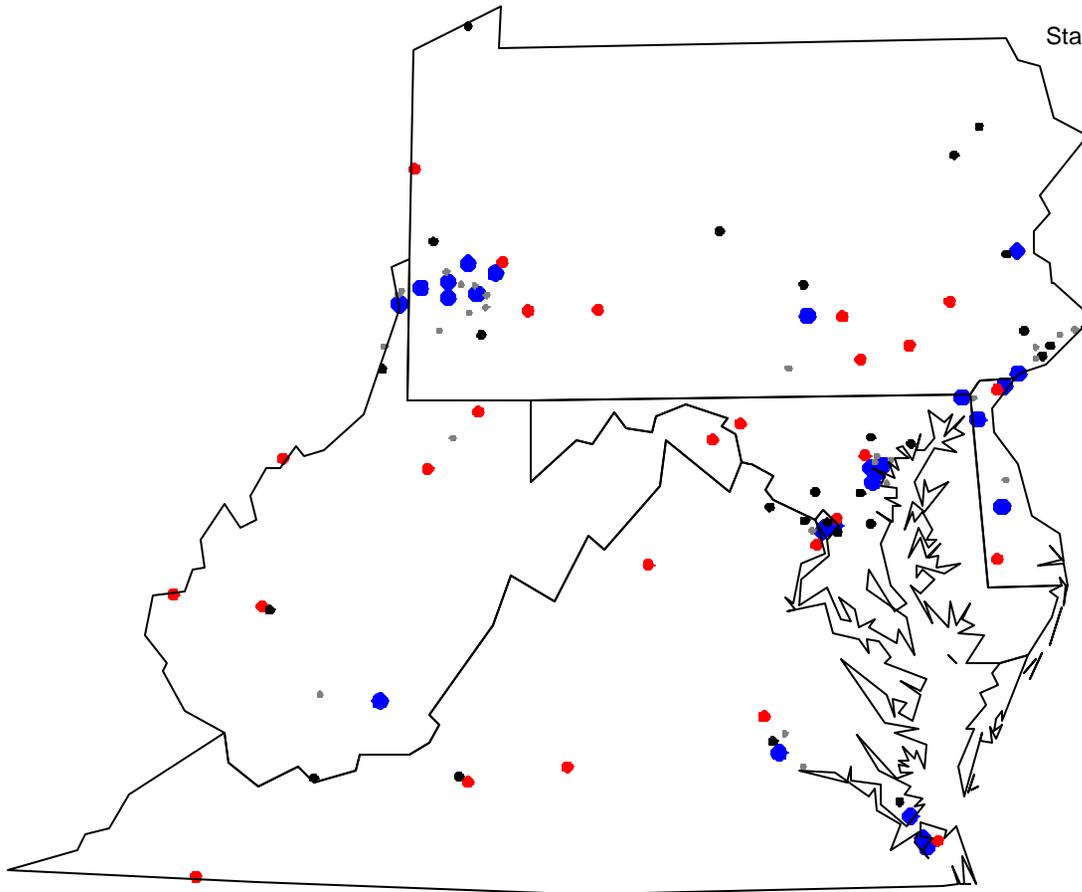
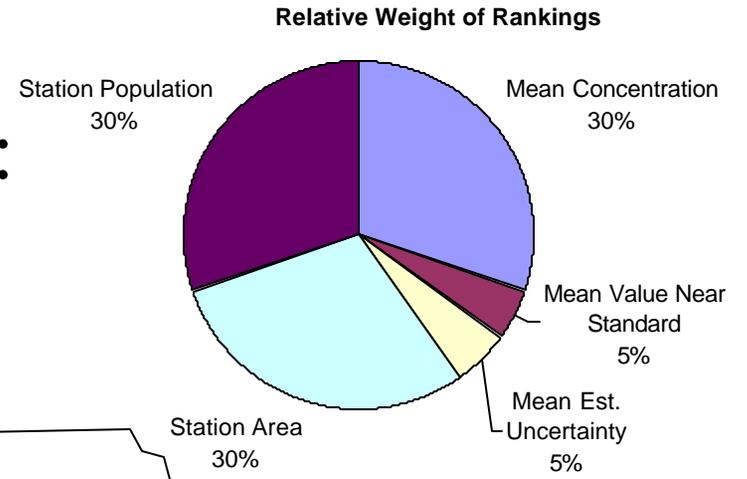
## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



PM25 Aggregate Ranking Map A: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

# Region 3

## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



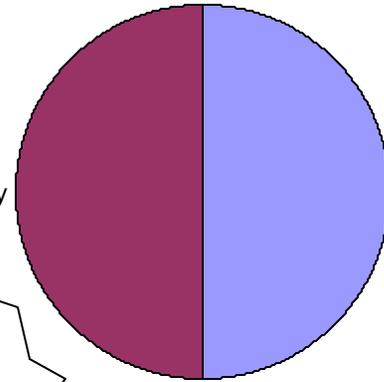
PM25 Aggregate Ranking Map B: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 3

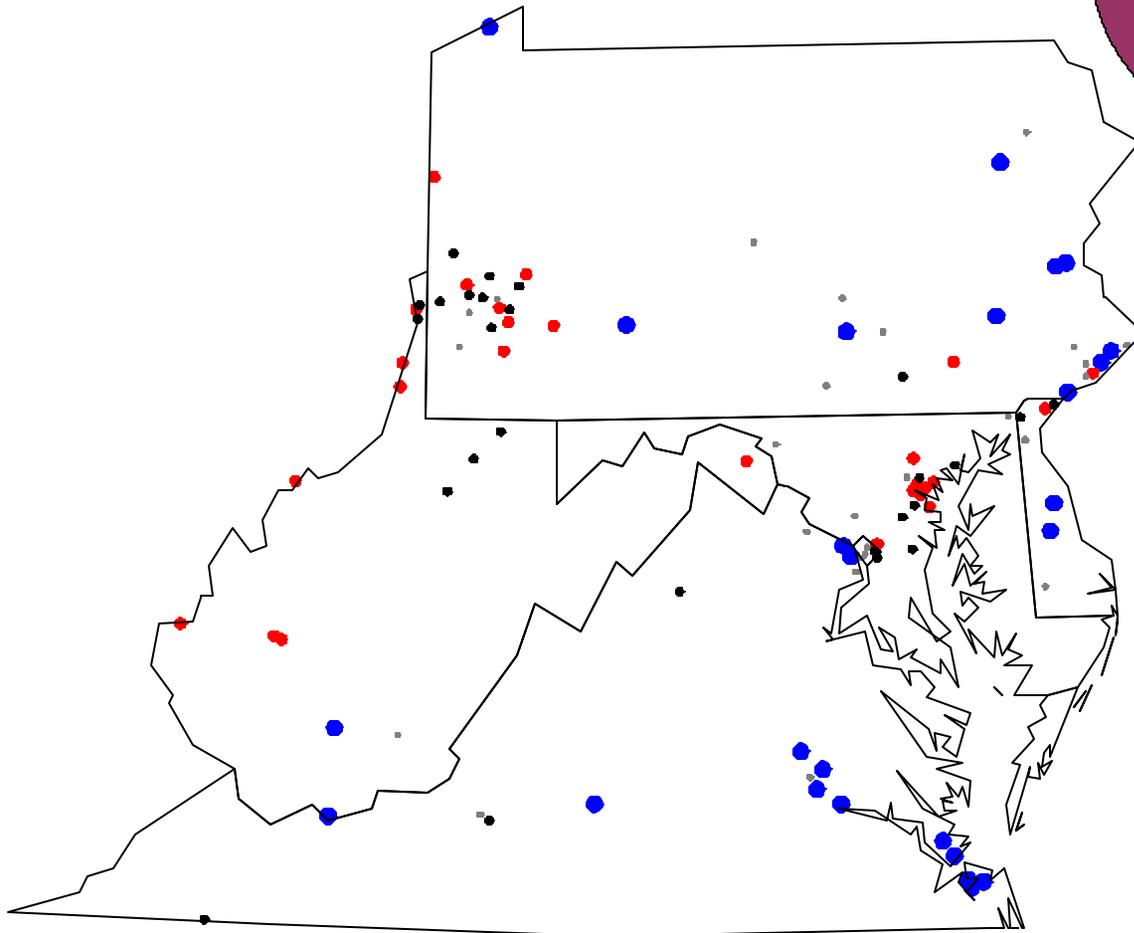
## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value

Relative Weight of Rankings

Mean Est.  
Uncertainty  
50%



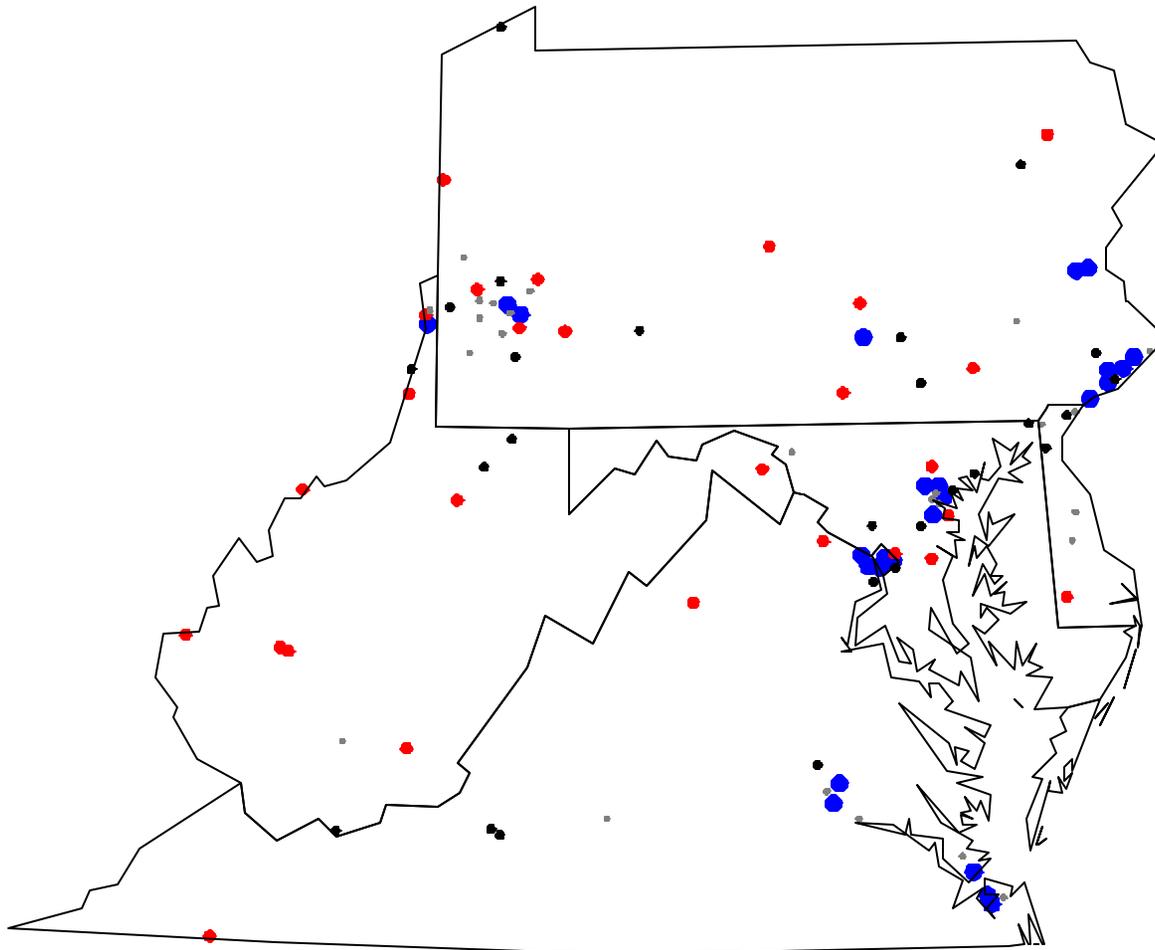
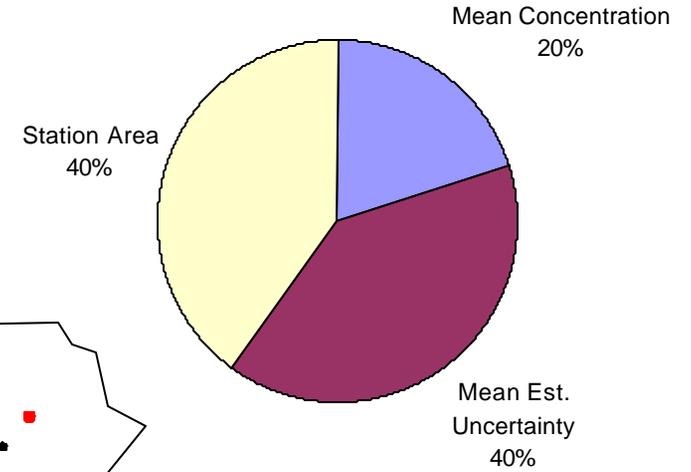
Mean  
Concentration  
50%



# Region 3

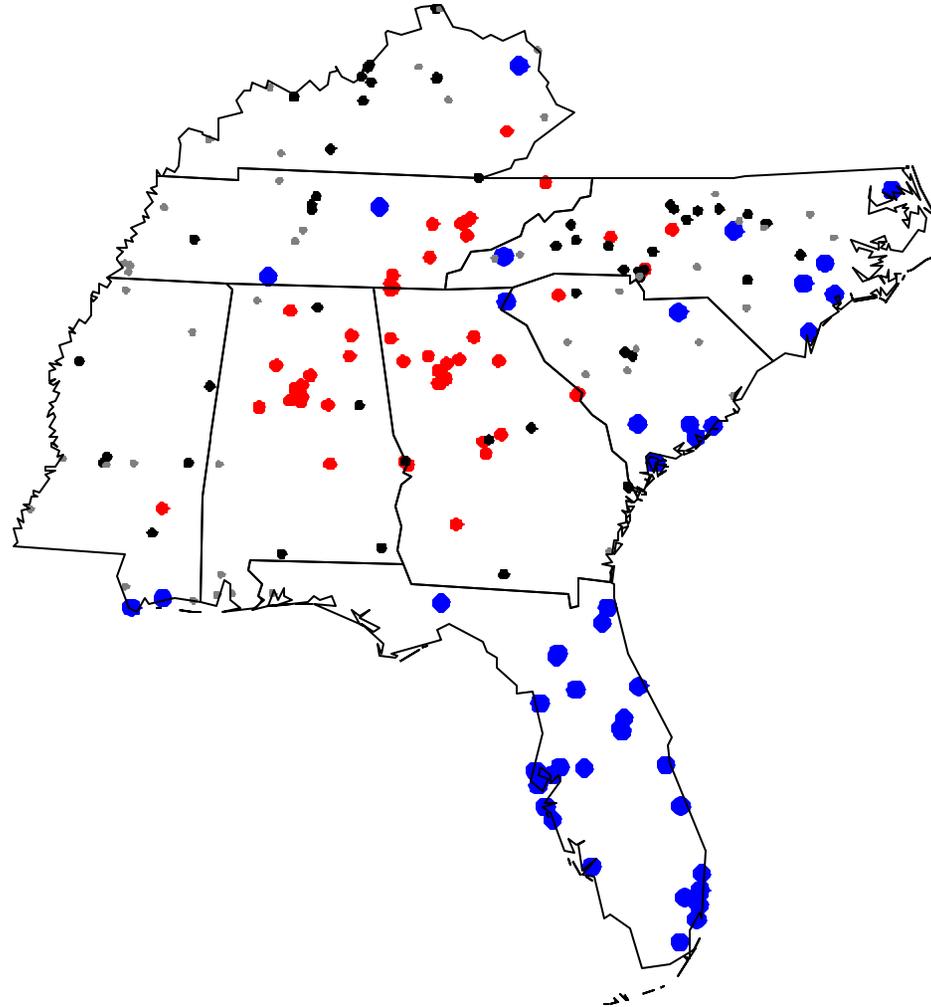
## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value

Relative Weight of Rankings



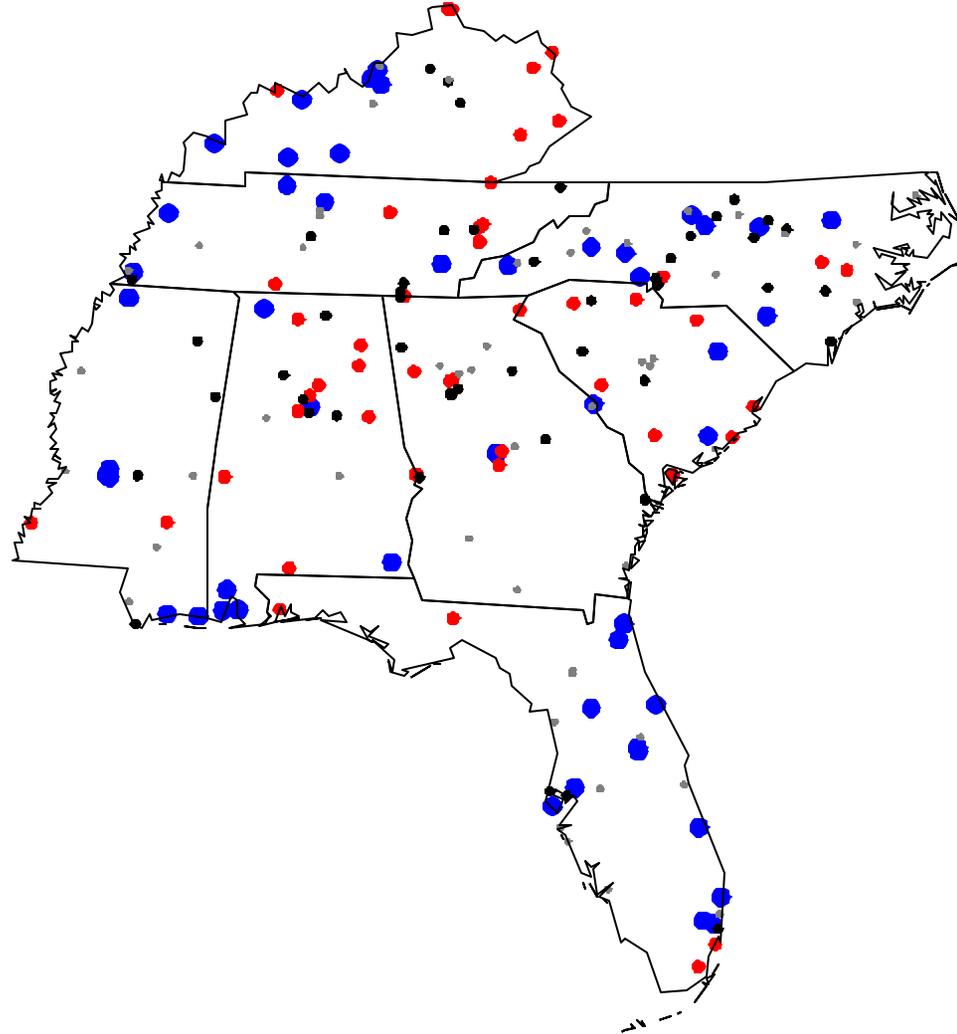
PM25 Aggregate Ranking Map D: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

# Region 4 PM25 Annual Mean: Red=Large Value, Blue=Small Value



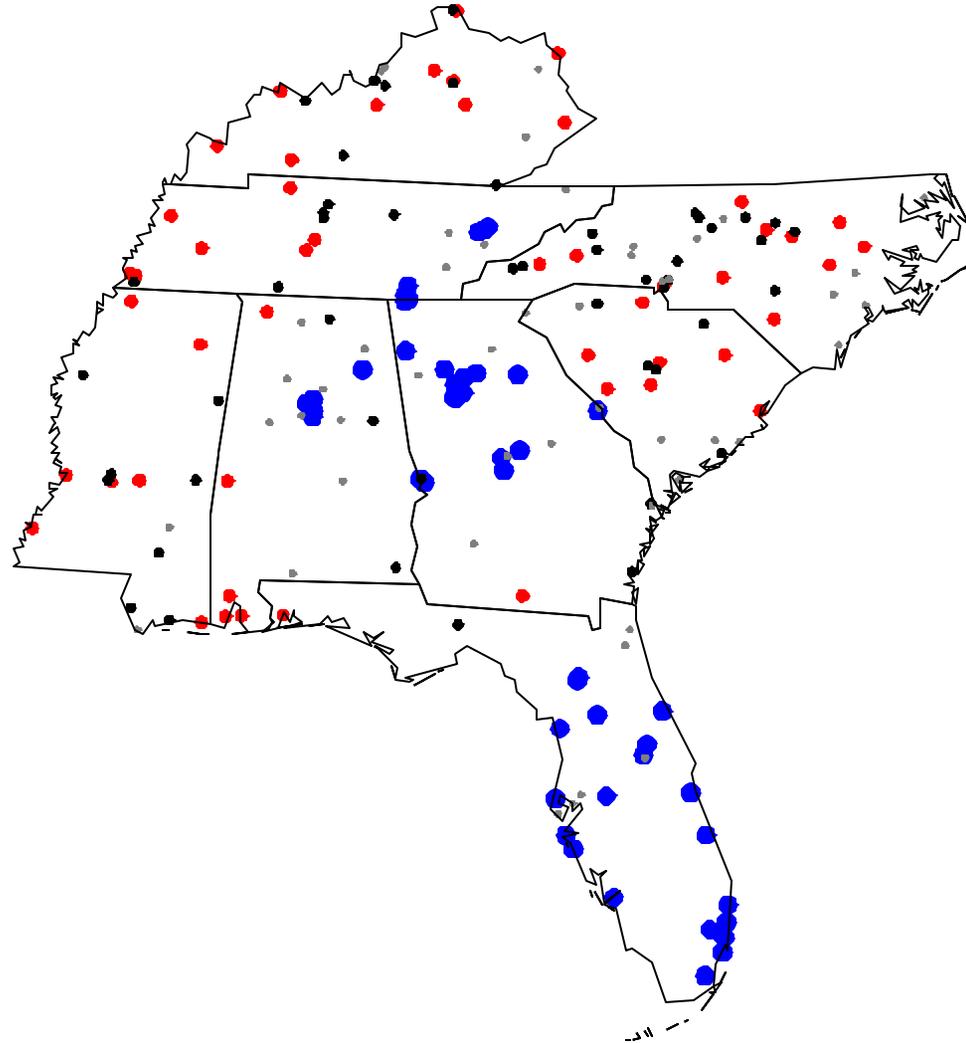
PM25 Annual Mean: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 4 Predicting PM25 Annual Mean: Red=High Uncertainty, Blue=Low Uncertainty



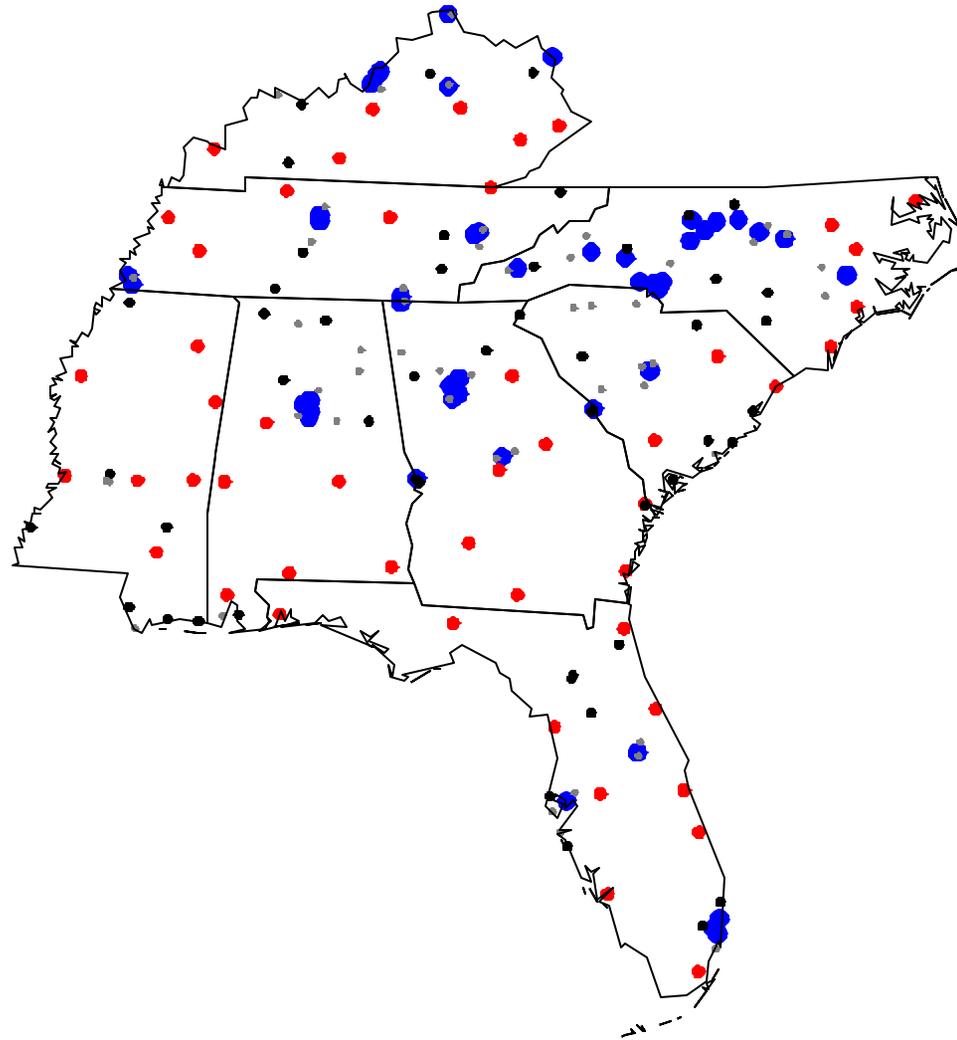
Predicting PM25 Annual Mean: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 4 Deviation from PM25 Annual Mean NAAQS: Red=Small Deviation, Blue=Large Deviation



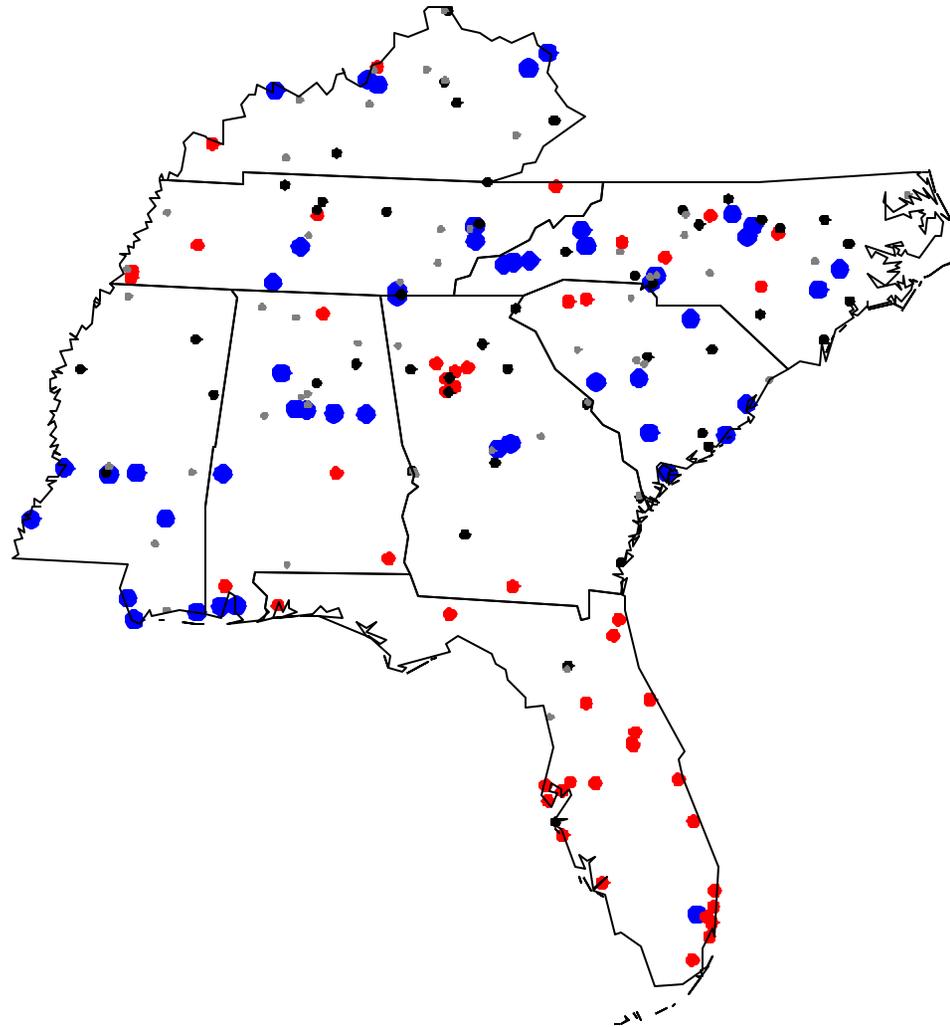
Deviation from PM25 Annual Mean NAAQS: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 4 Area for PM25 Monitors: Red=Large Area, Blue=Small Area



Area for PM25 Monitors: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 4 Population for PM25 Monitors: Red=Large Population, Blue=Small Population



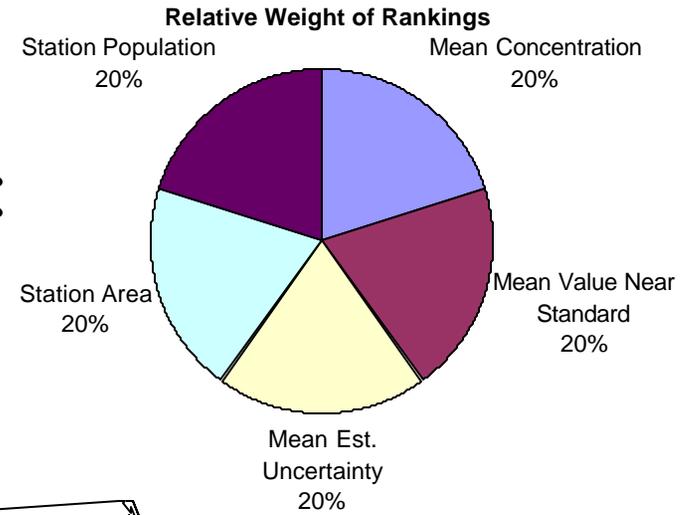
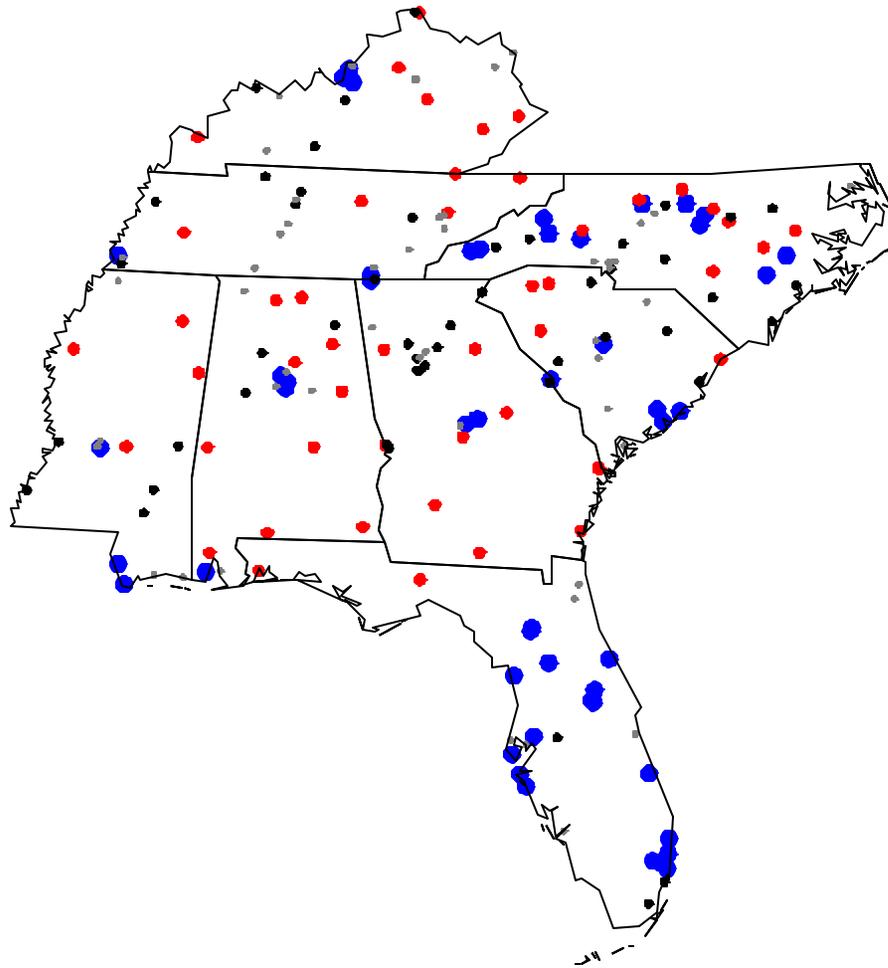
Population for PM25 Monitors: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# PM25 Quartiles

	Region 4 PM25					
	pm25mean	% of NAAQS	pm25error	dif_NAAQS_mean	area	population
Q1	17.4	116.0%	1.4472	0.65	7830.342	328532
Q2	15.6	104.0%	0.781	1.8	4594.55	214336
Q3	14.2	94.7%	0.3645	3.35	2464.844	144120

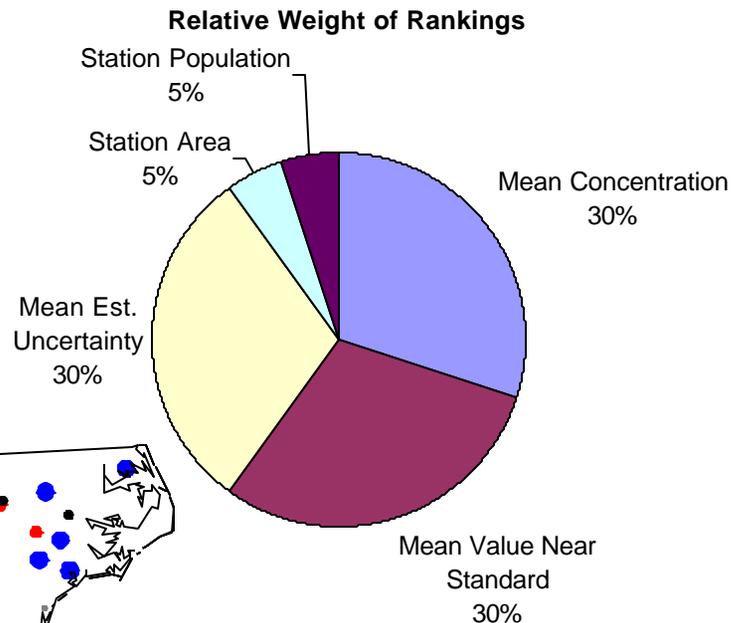
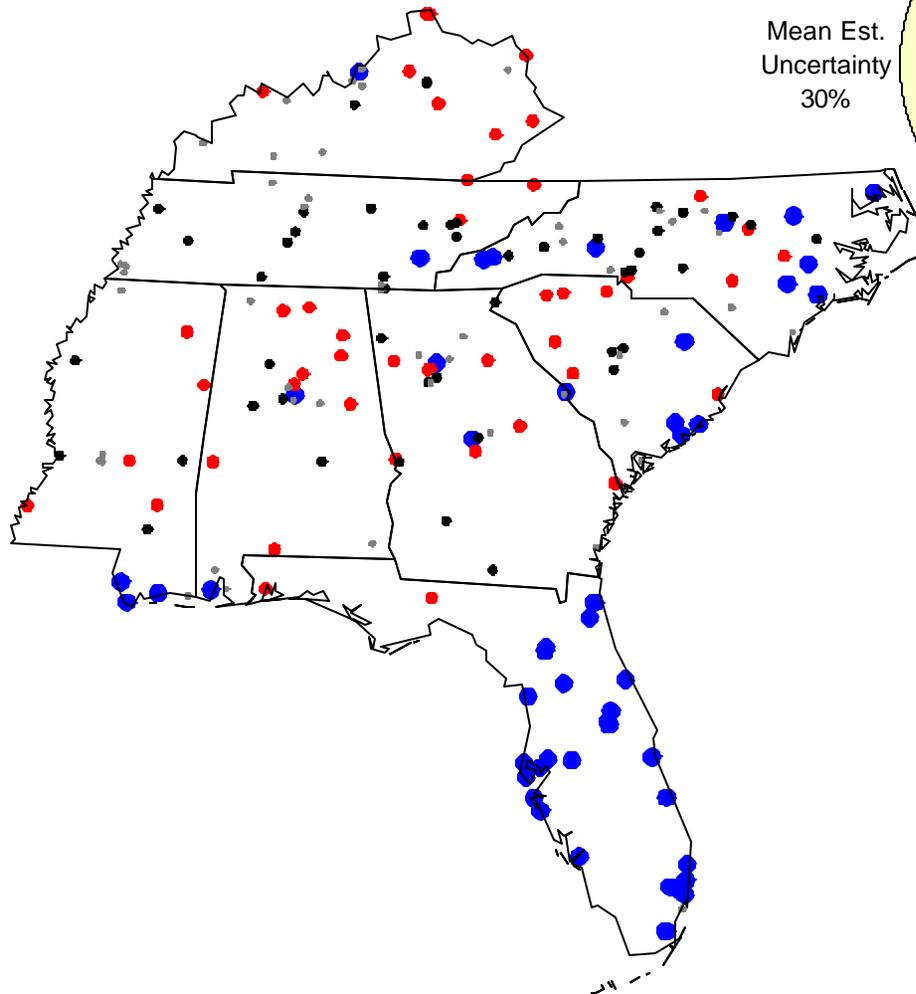
# Region 4

## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



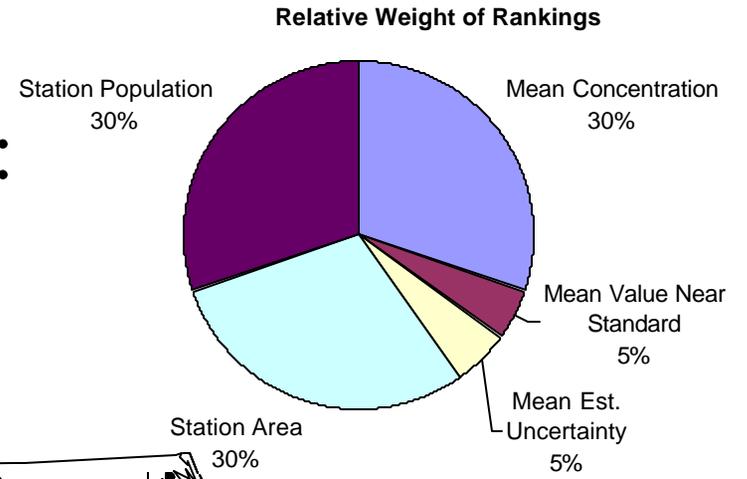
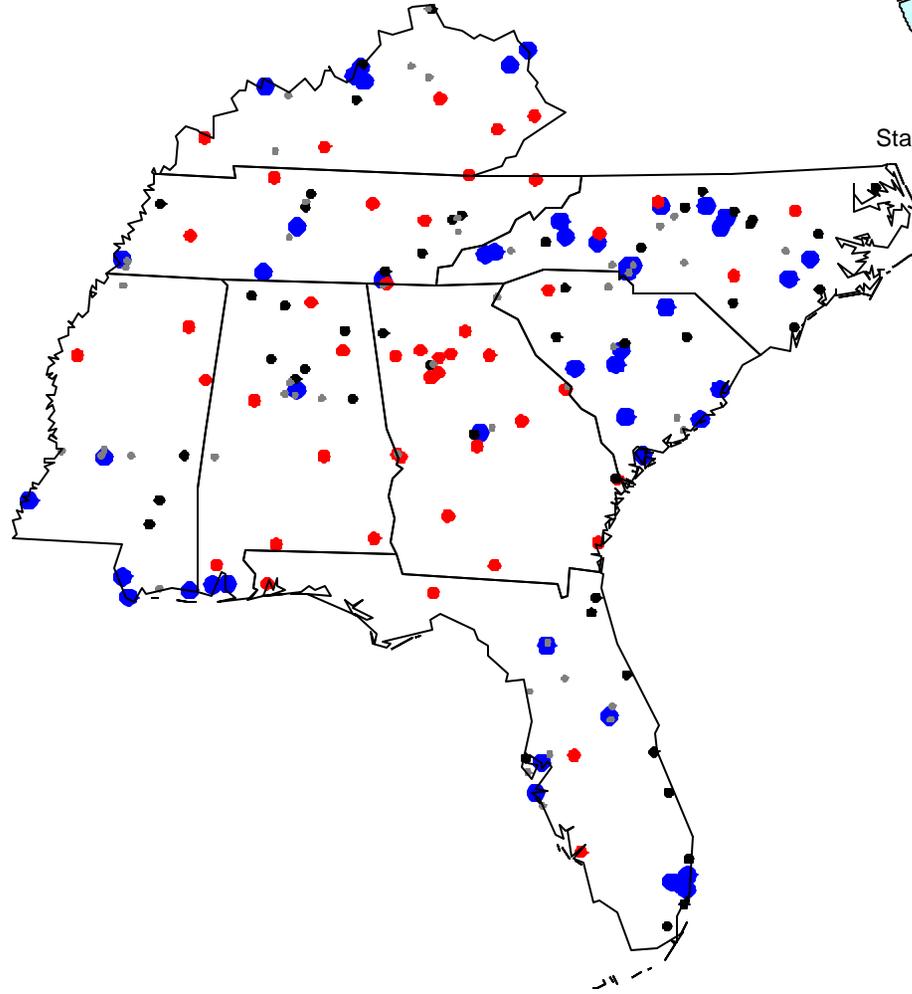
# Region 4

## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



# Region 4

## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value

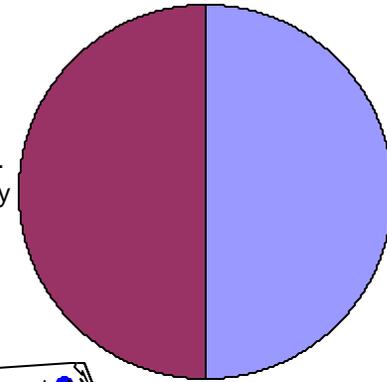


# Region 4

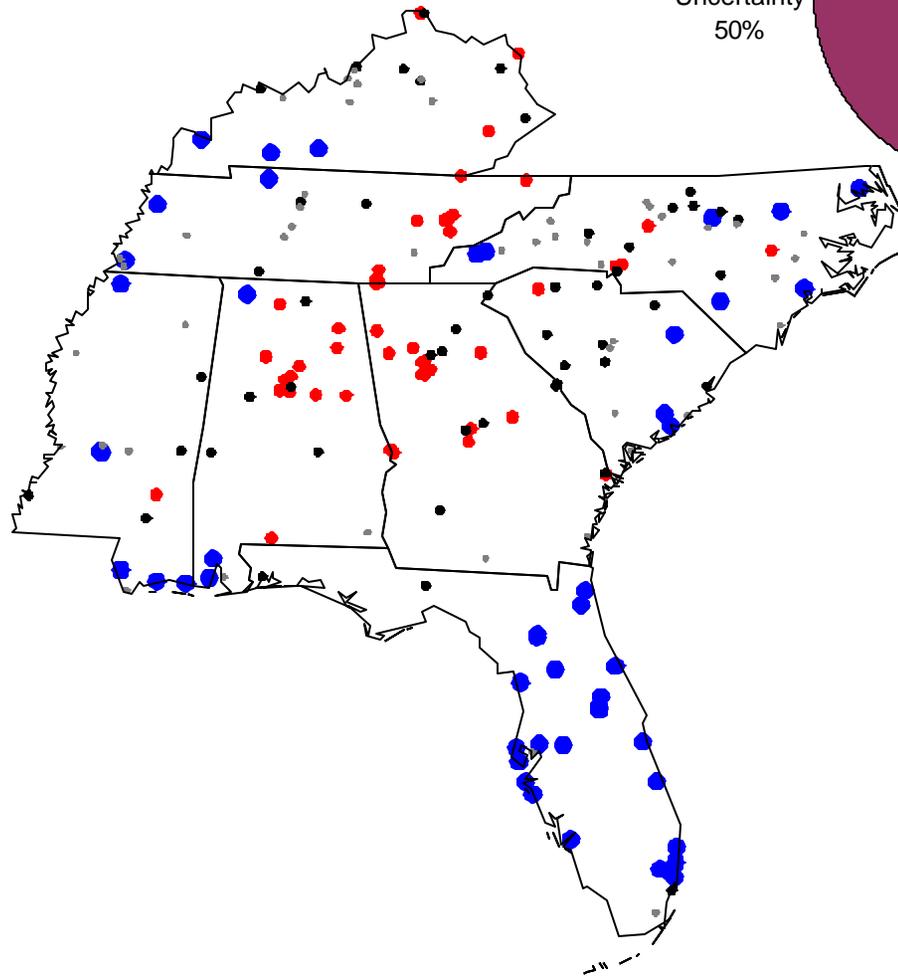
## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value

Relative Weight of Rankings

Mean Est.  
Uncertainty  
50%



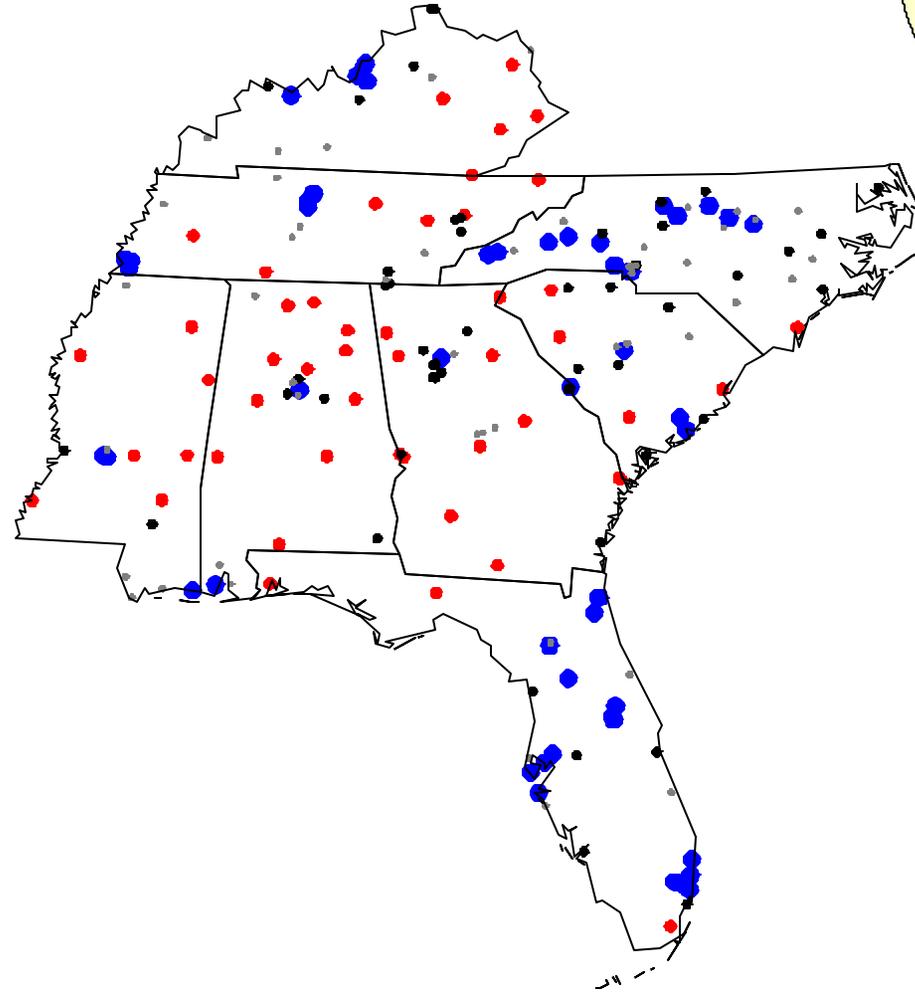
Mean  
Concentration  
50%



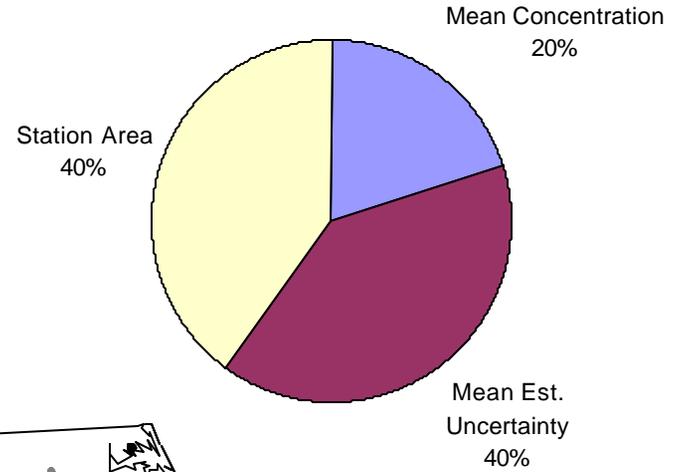
PM25 Aggregate Ranking Map C: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 4

PM25 Aggregate Ranking Map:  
Red=High Value, Blue=Low Value

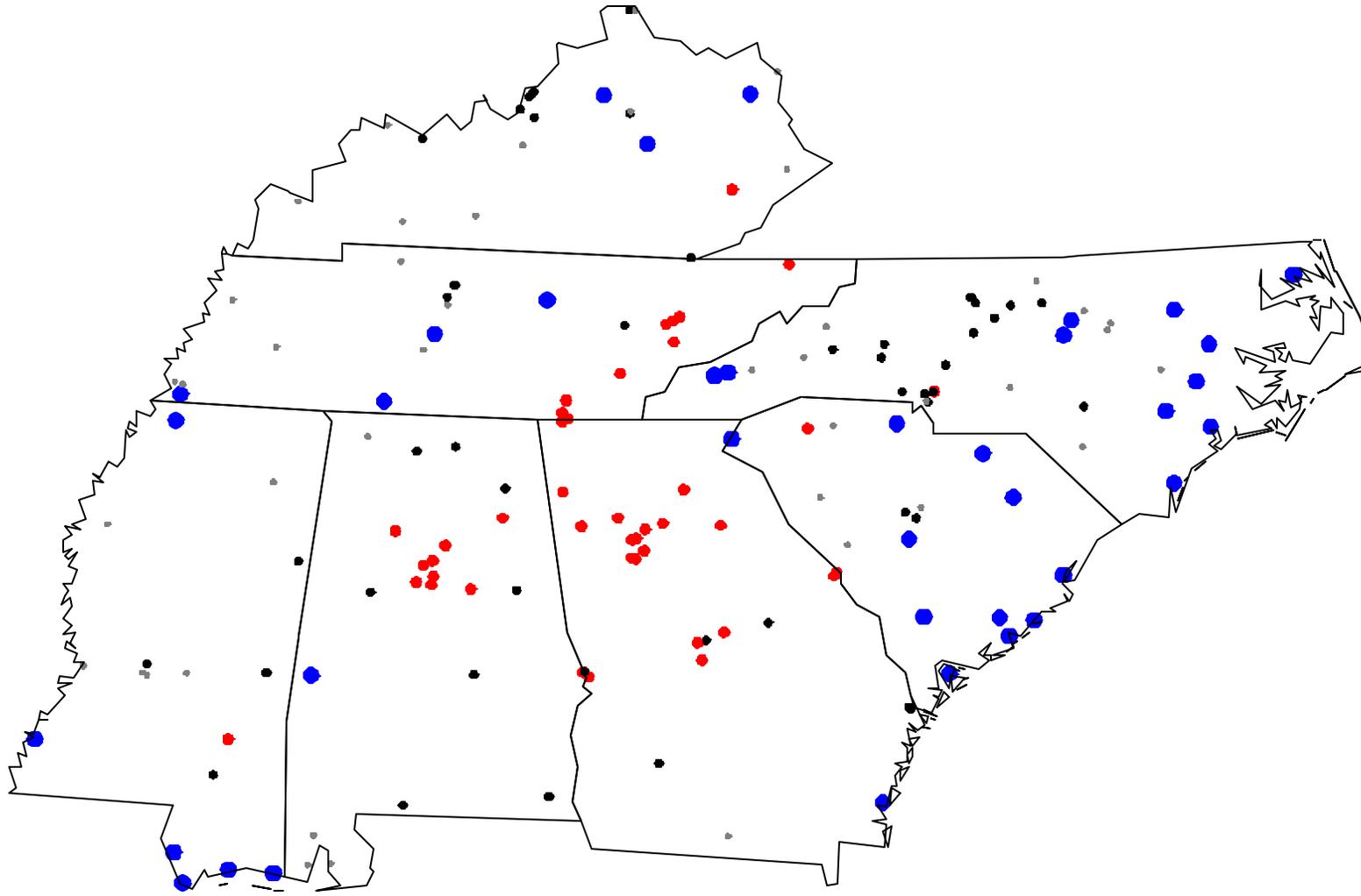


Relative Weight of Rankings



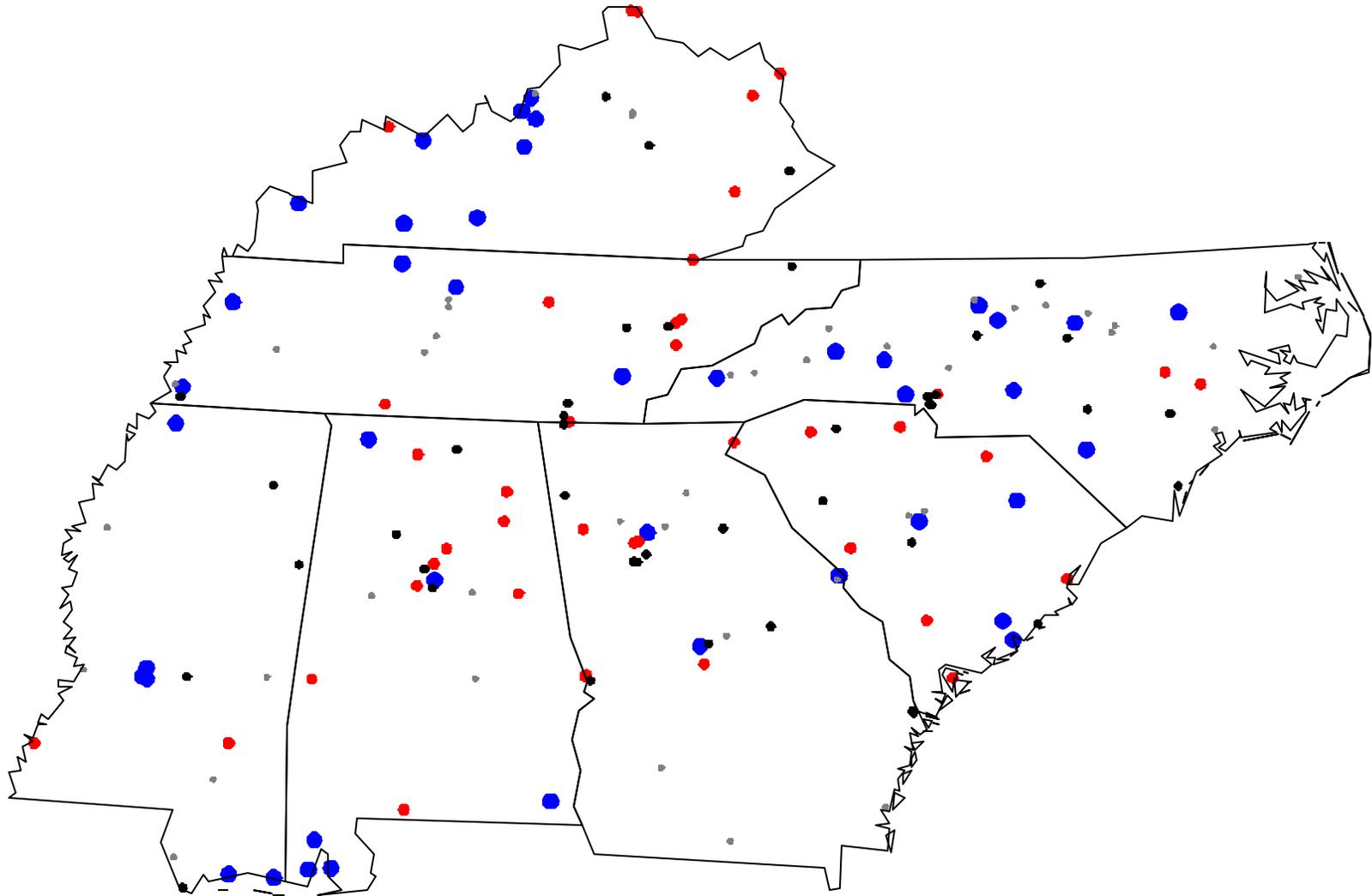
PM25 Aggregate Ranking Map D: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 4 PM25 Annual Mean: Red=Large Value, Blue=Small Value



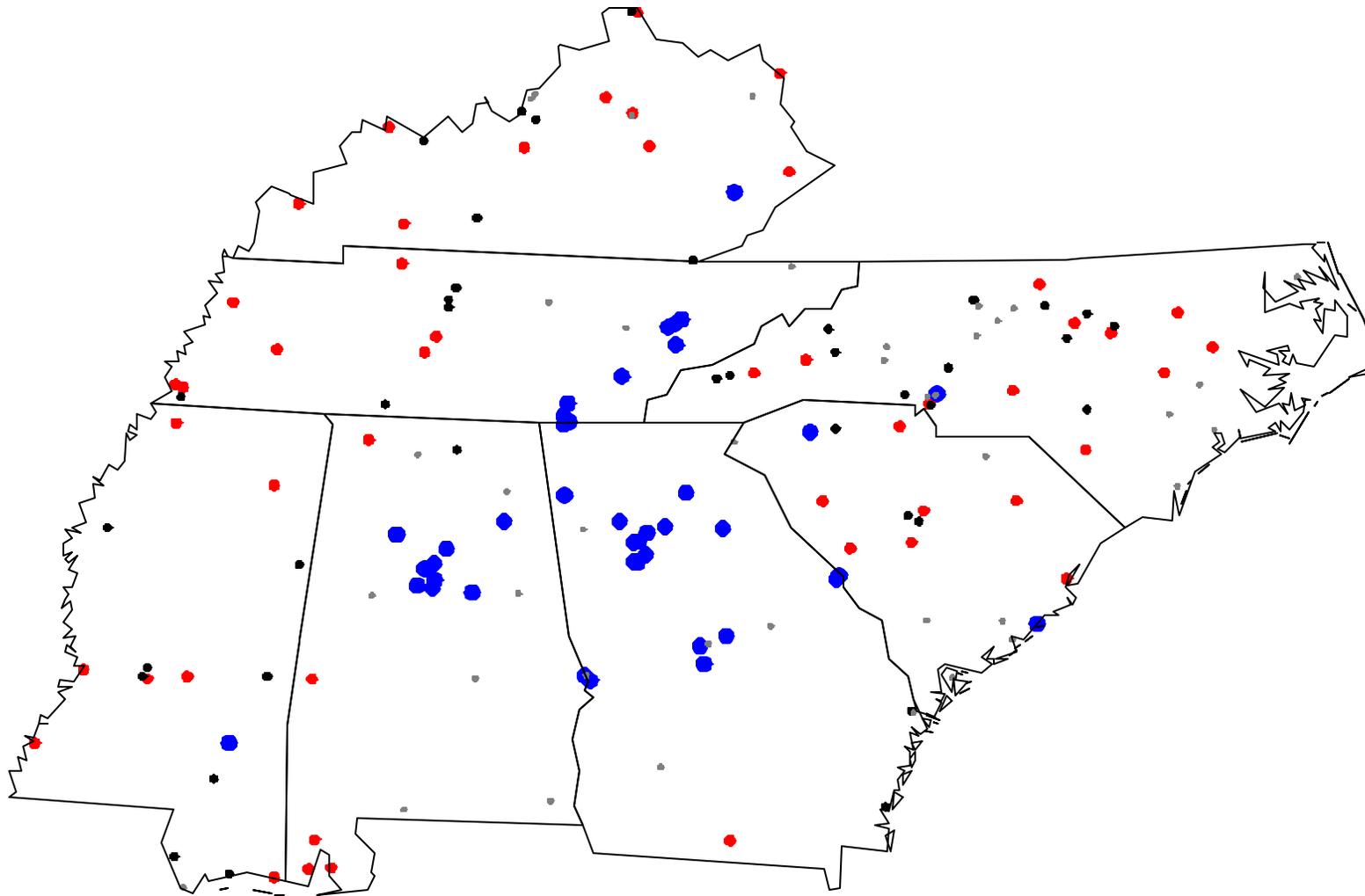
PM25 Annual Mean: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 4 Predicting PM25 Annual Mean: Red=High Uncertainty, Blue=Low Uncertainty



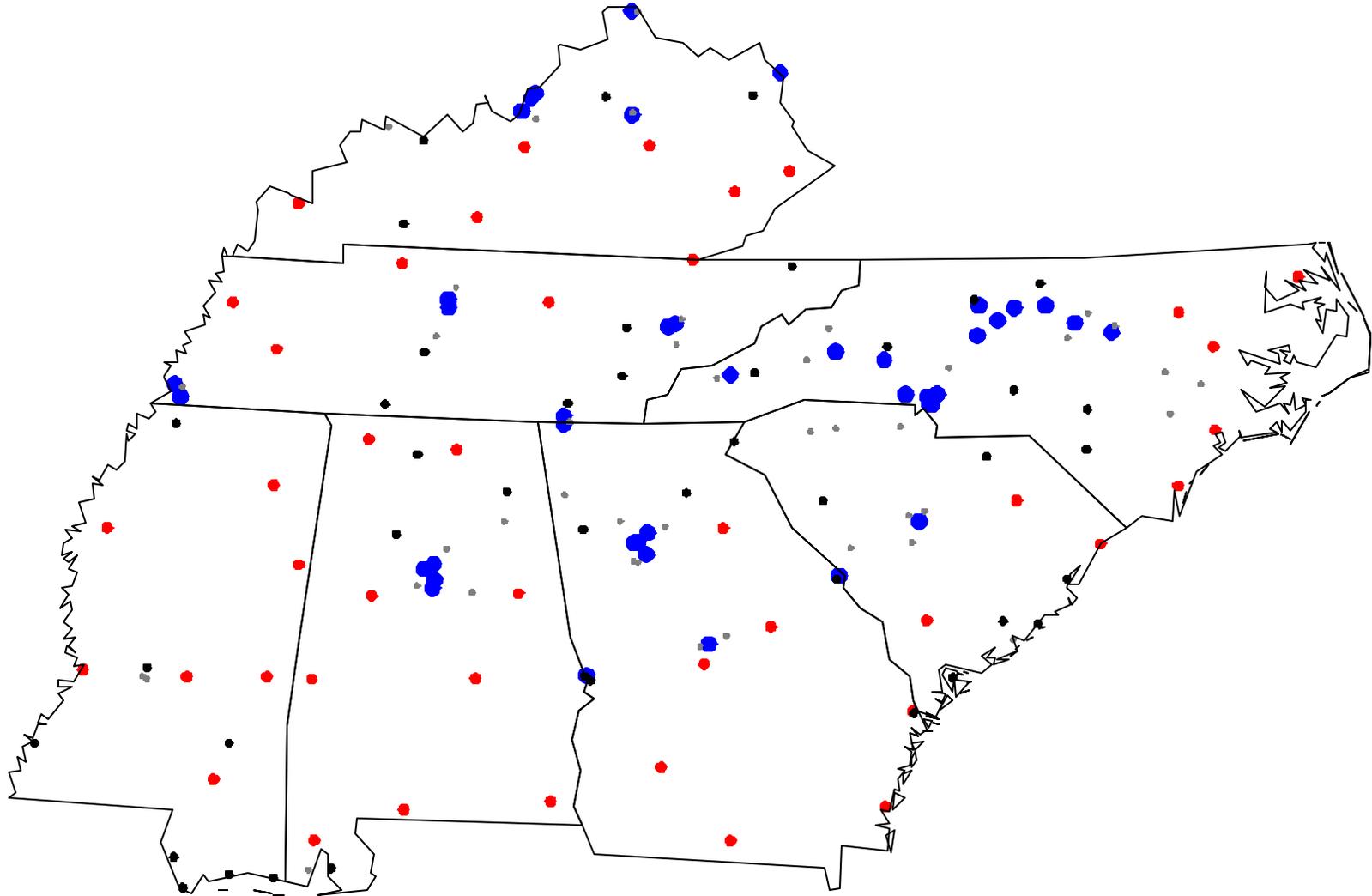
Predicting PM25 Annual Mean: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 4 Deviation from PM25 Annual Mean NAAQS: Red=Small Deviation, Blue=Large Deviation



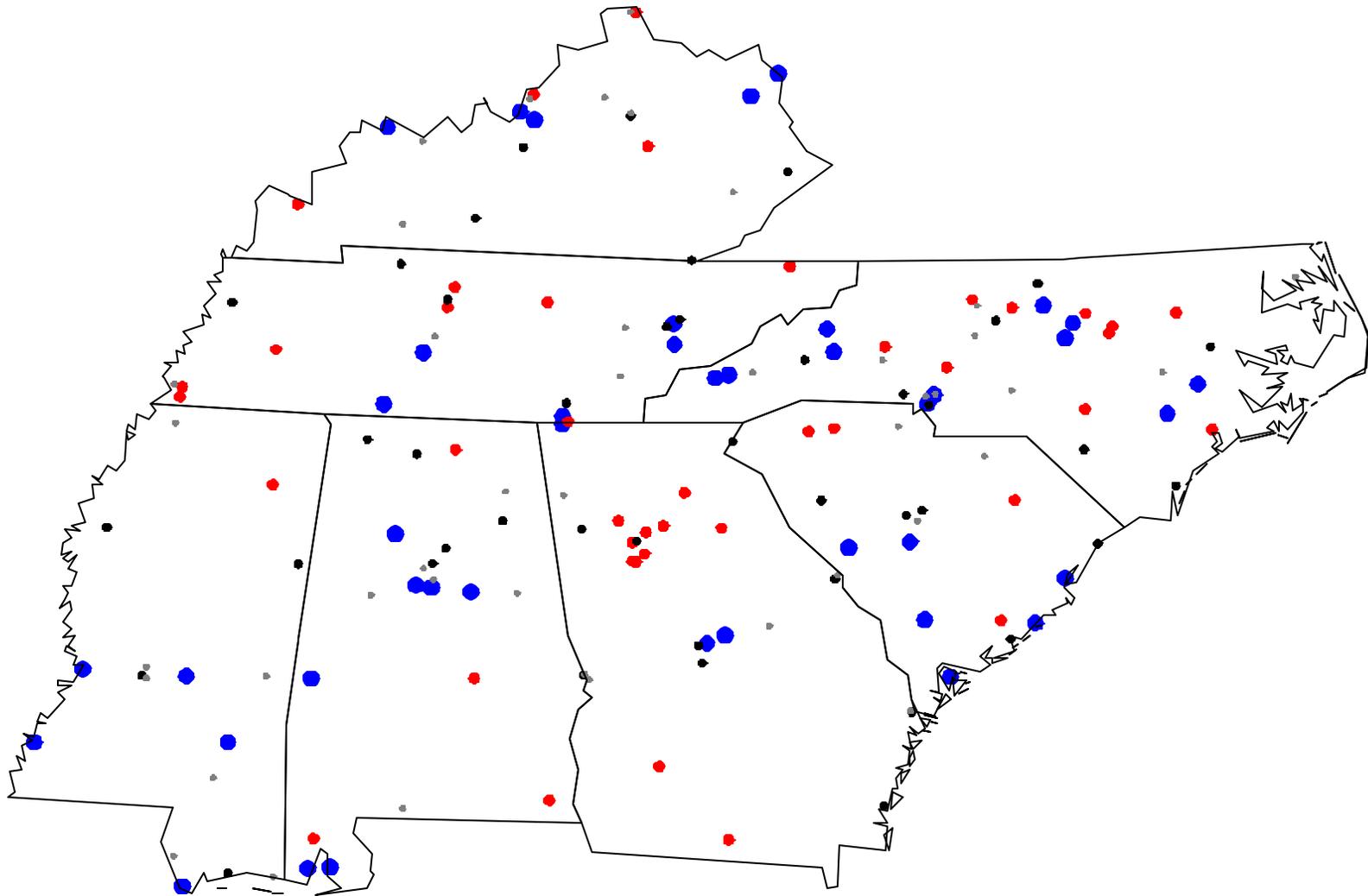
Deviation from PM25 Annual Mean NAAQS: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 4 Area for PM25 Monitors: Red=Large Area, Blue=Small Area



Area for PM25 Monitors: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 4 Population for PM25 Monitors: Red=Large Population, Blue=Small Population



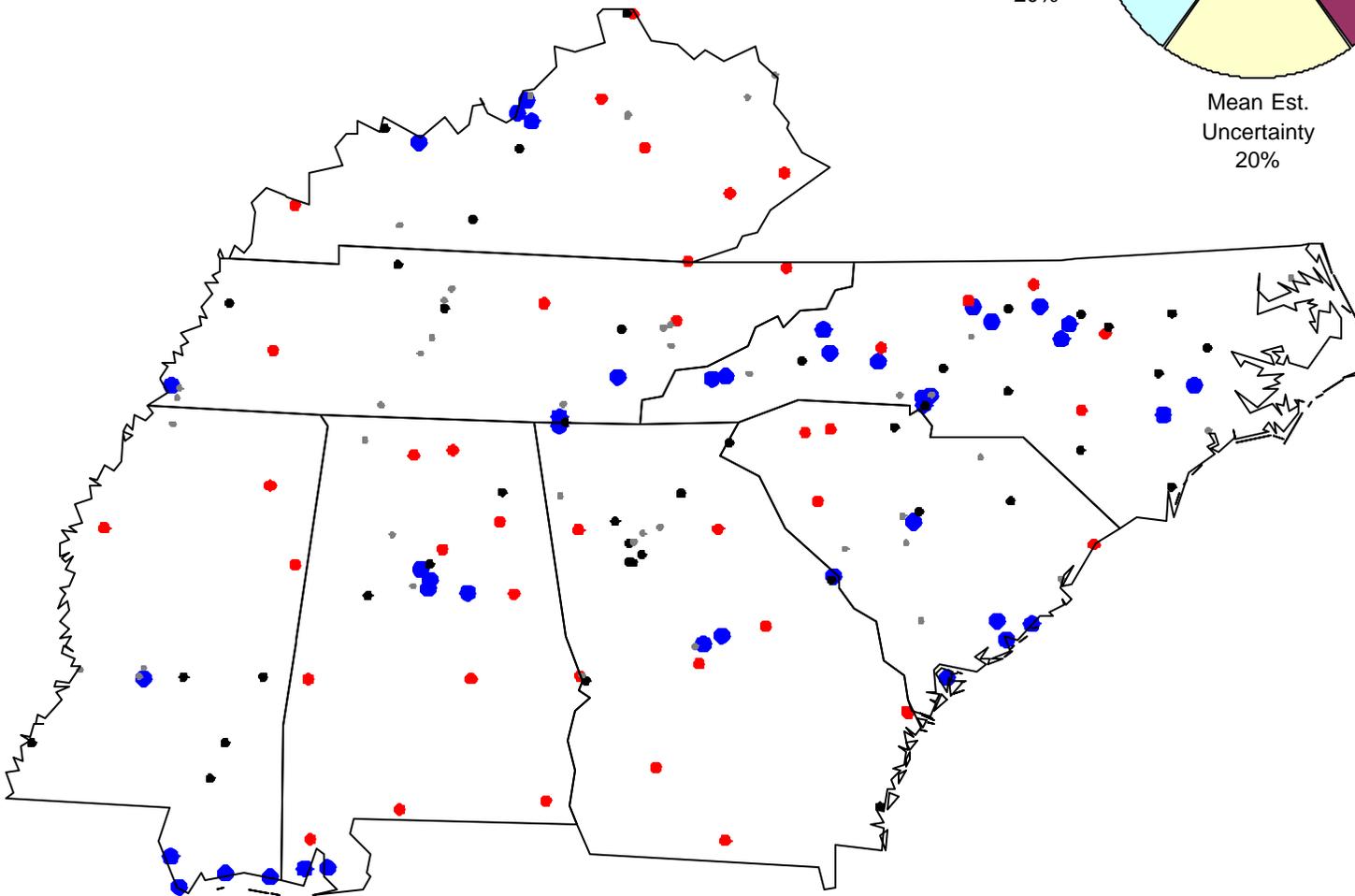
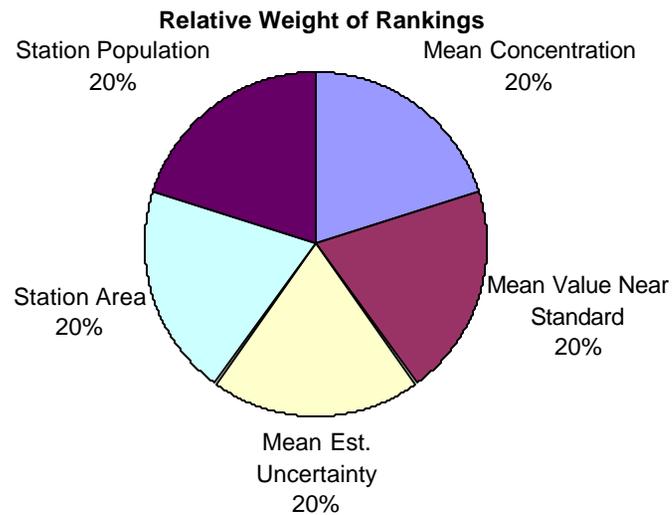
Population for PM25 Monitors: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# PM25 Quartiles

	<b>Region 4 (w/o Florida) PM25</b>					
	pm25mean	% of NAAQS	pm25error	dif_NAAQS_mean	area	population
<b>Q1</b>	17.7	118.0%	1.527	0.6	7424.033	275538
<b>Q2</b>	15.9	106.0%	0.8405	1.3	4470.858	198626
<b>Q3</b>	14.9	99.3%	0.4144	2.7	2394.433	128504

# Region 4

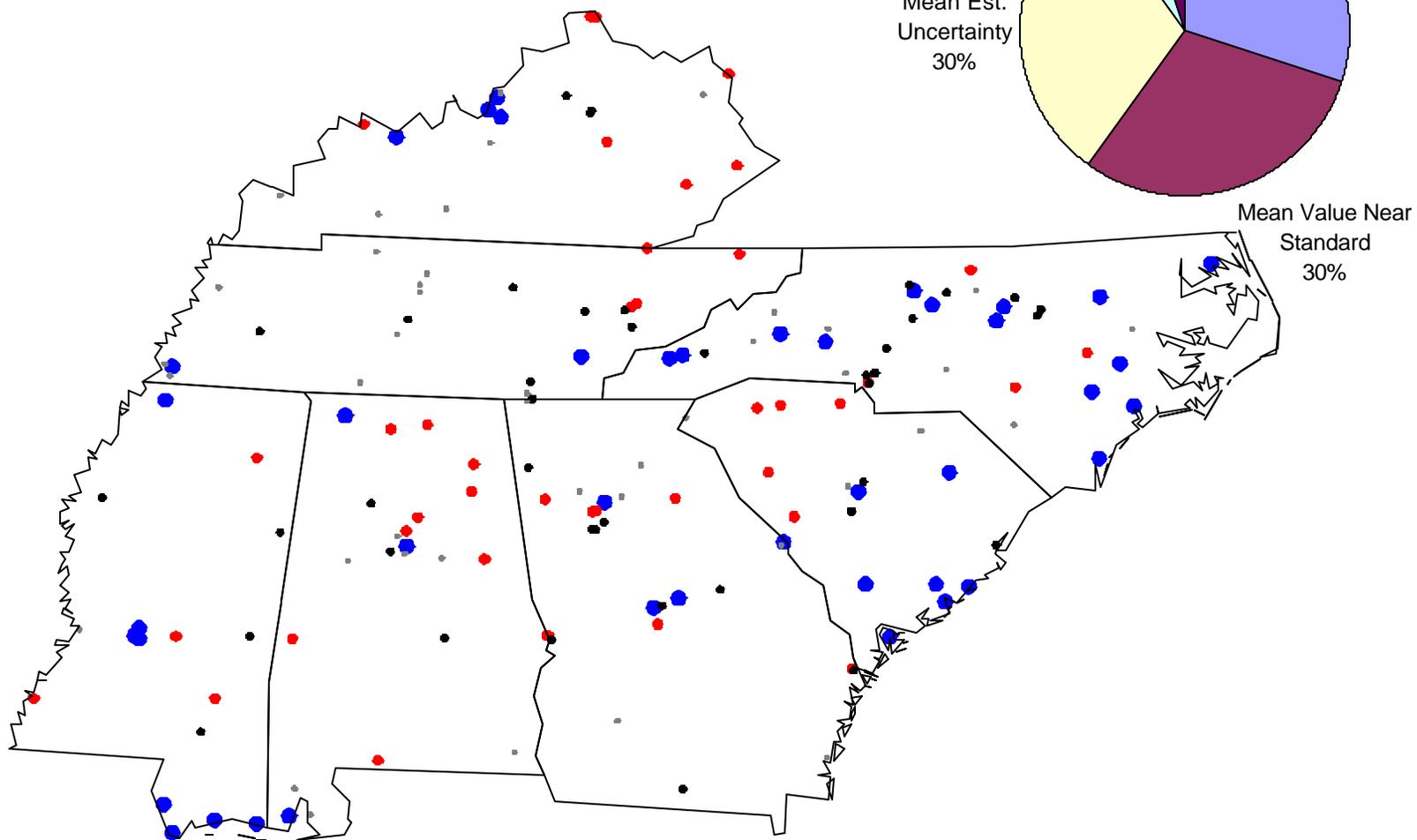
## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



PM25 Aggregate Ranking Map: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

# Region 4

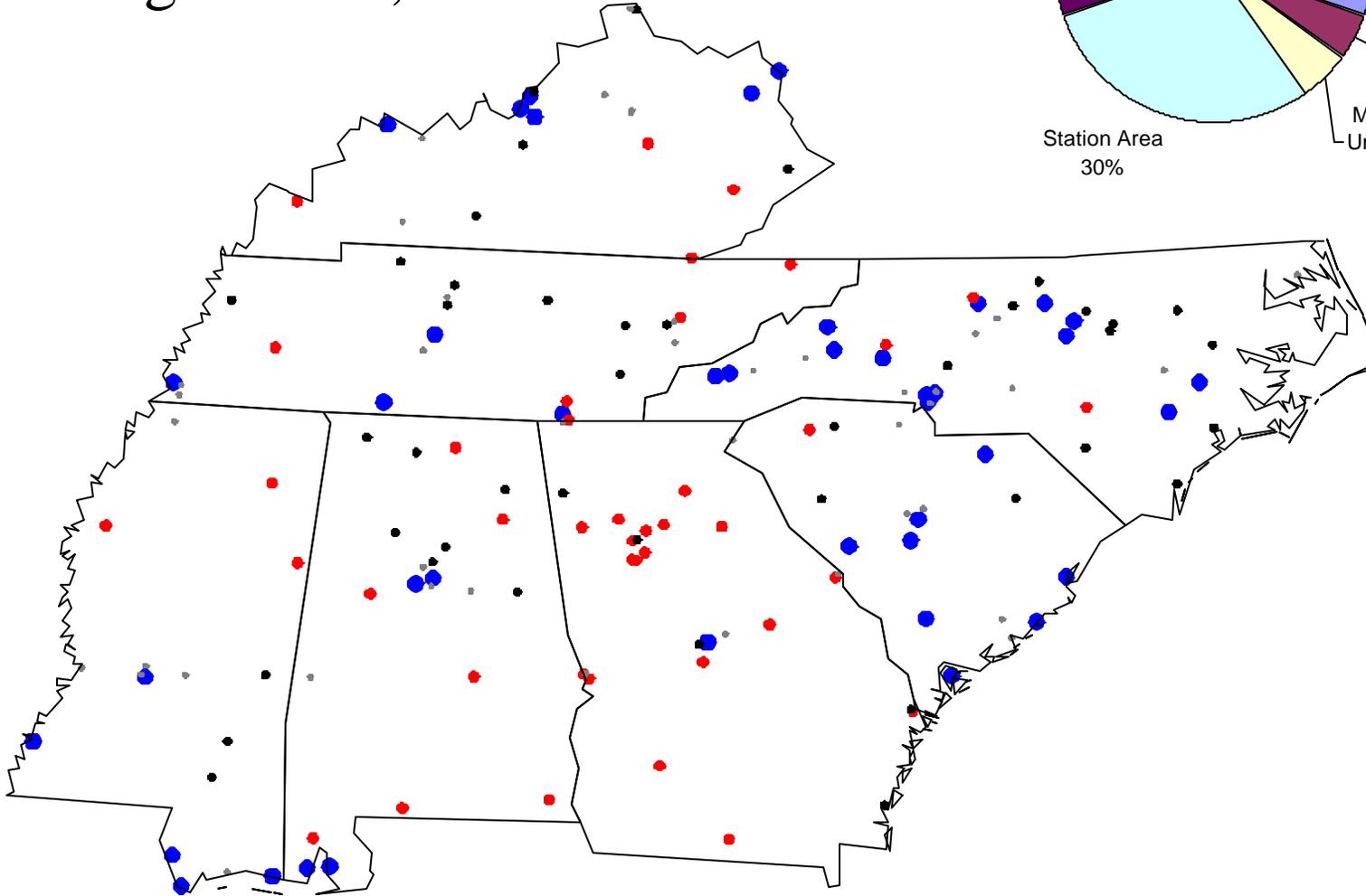
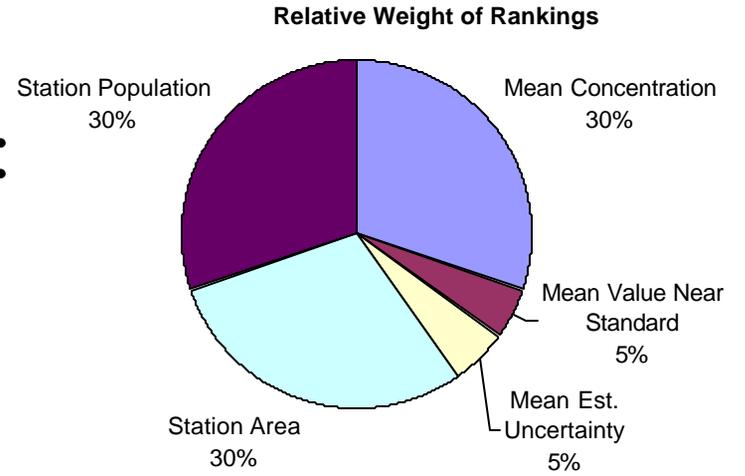
## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



PM25 Aggregate Ranking Map A: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

# Region 4

## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



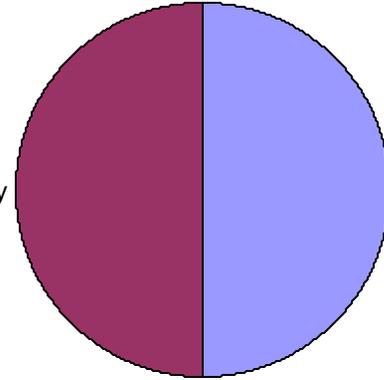
PM25 Aggregate Ranking Map B: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 4

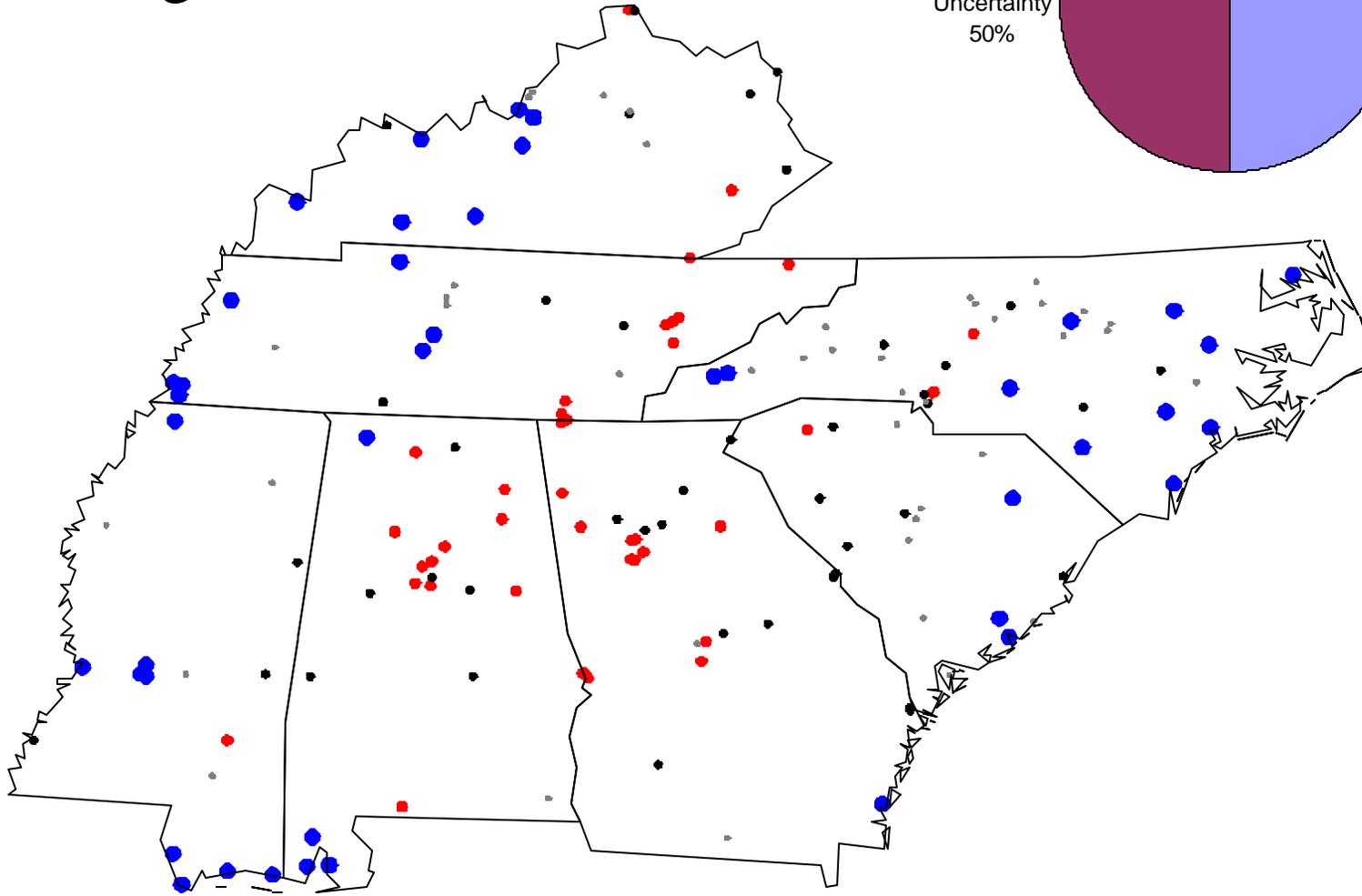
## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value

Relative Weight of Rankings

Mean Est.  
Uncertainty  
50%

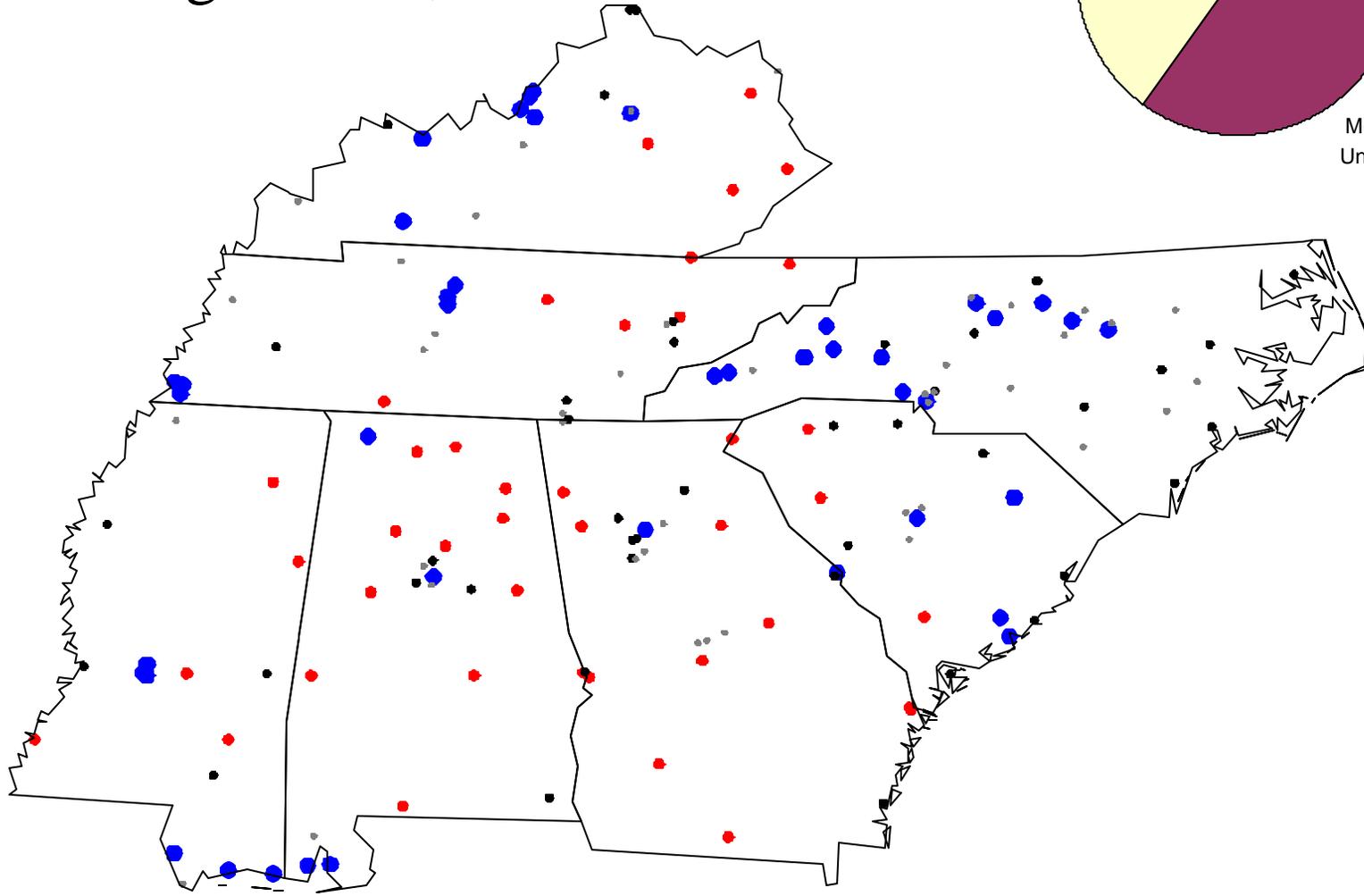
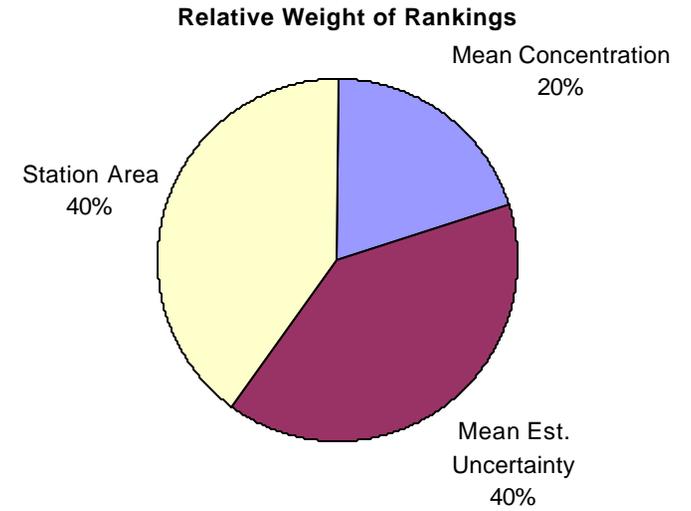


Mean  
Concentration  
50%



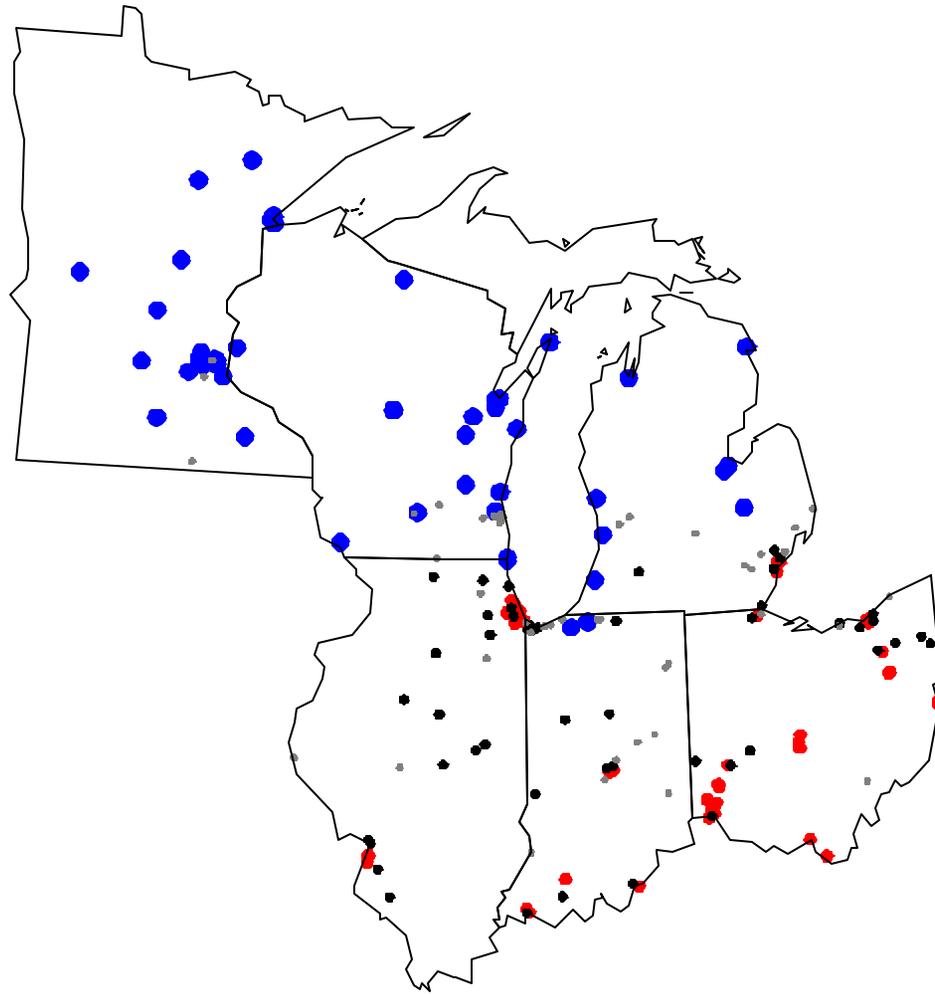
# Region 4

## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



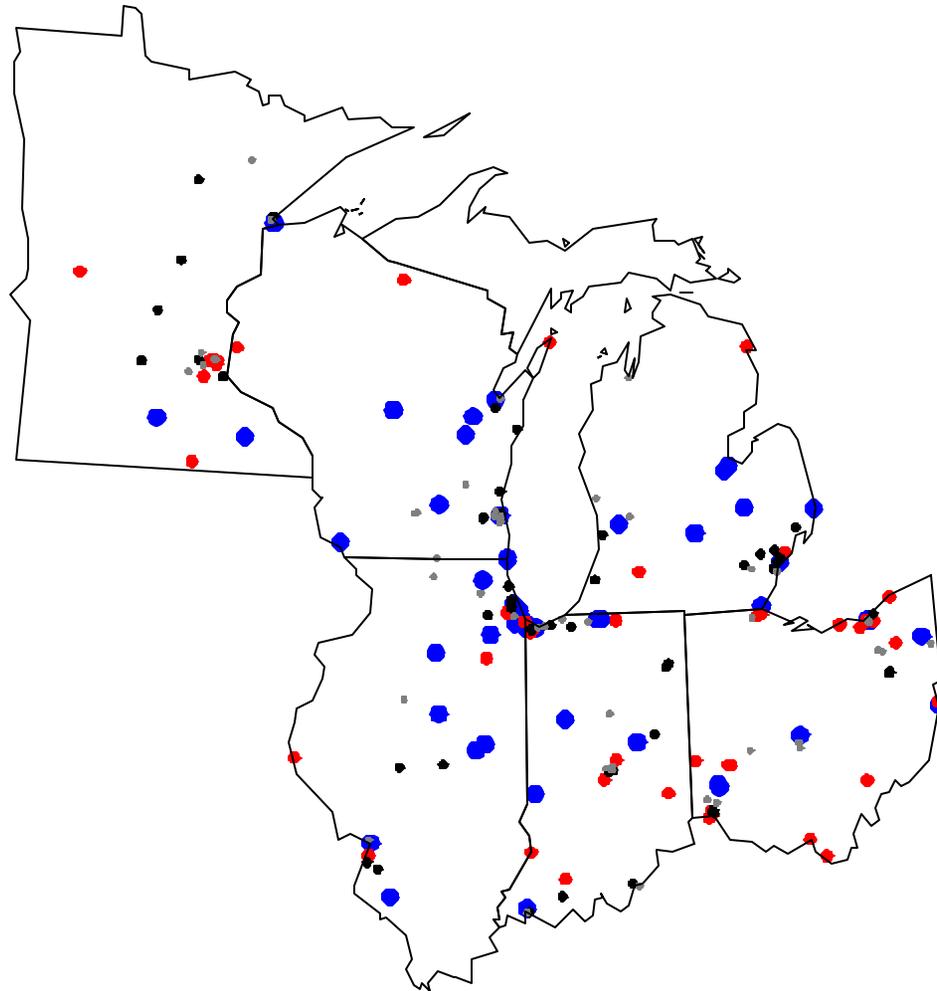
PM25 Aggregate Ranking Map D: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

# Region 5 PM25 Annual Mean: Red=Large Value, Blue=Small Value



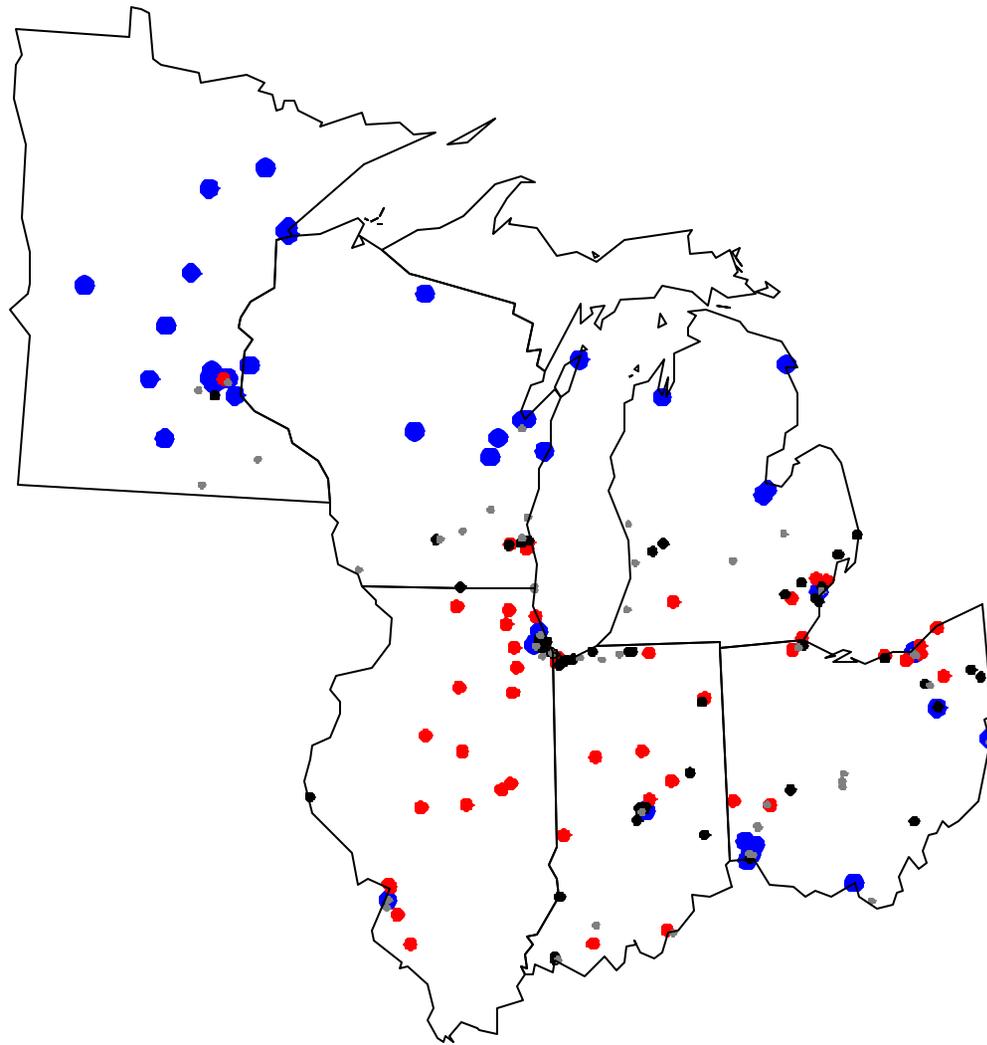
PM25 Annual Mean: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 5 Predicting PM25 Annual Mean: Red=High Uncertainty, Blue=Low Uncertainty



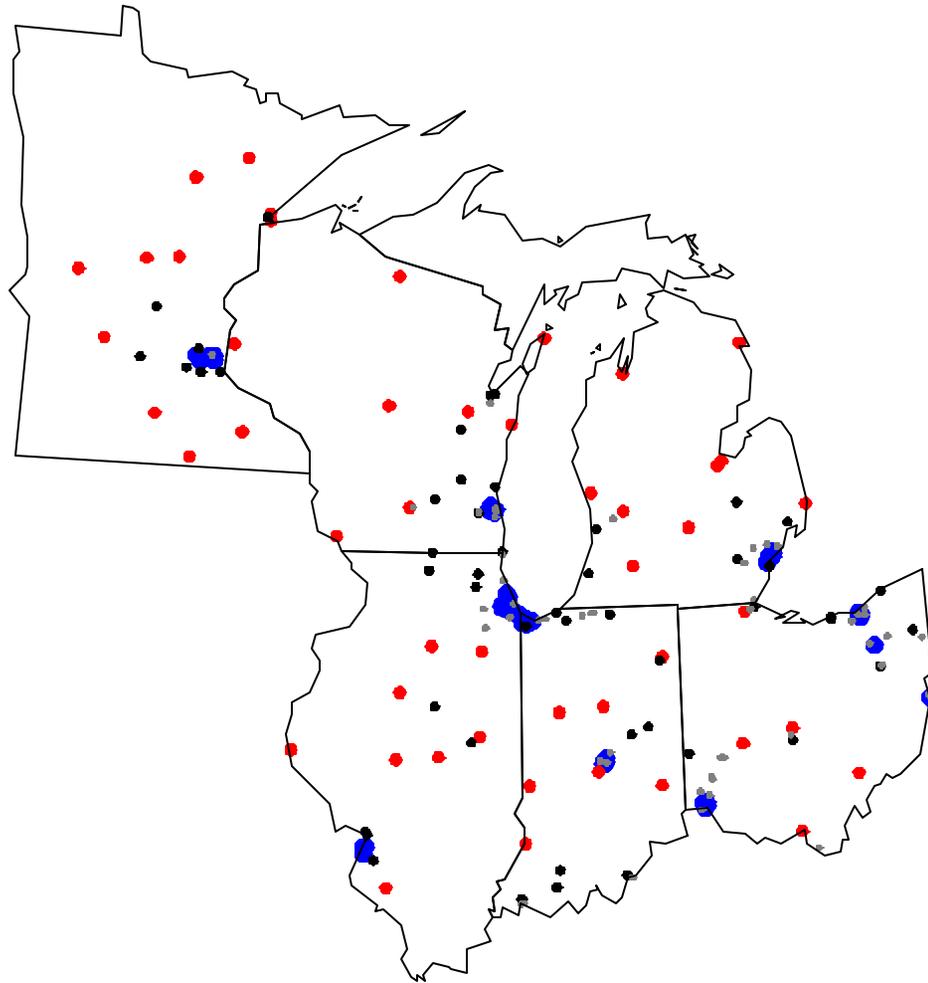
Predicting PM25 Annual Mean: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 5 Deviation from PM25 Annual Mean NAAQS: Red=Small Deviation, Blue=Large Deviation



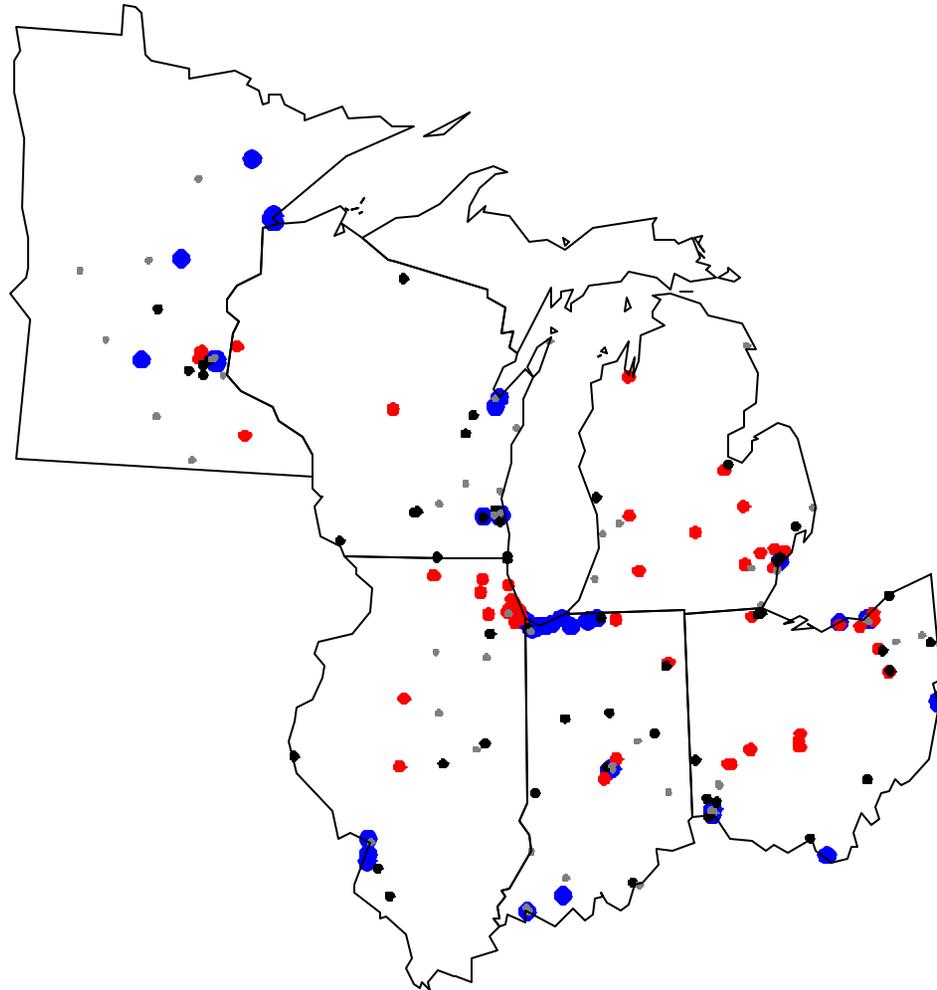
Deviation from PM25 Annual Mean NAAQS: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 5 Area for PM25 Monitors: Red=Large Area, Blue=Small Area



Area for PM25 Monitors: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 5 Population for PM25 Monitors: Red=Large Population, Blue=Small Population



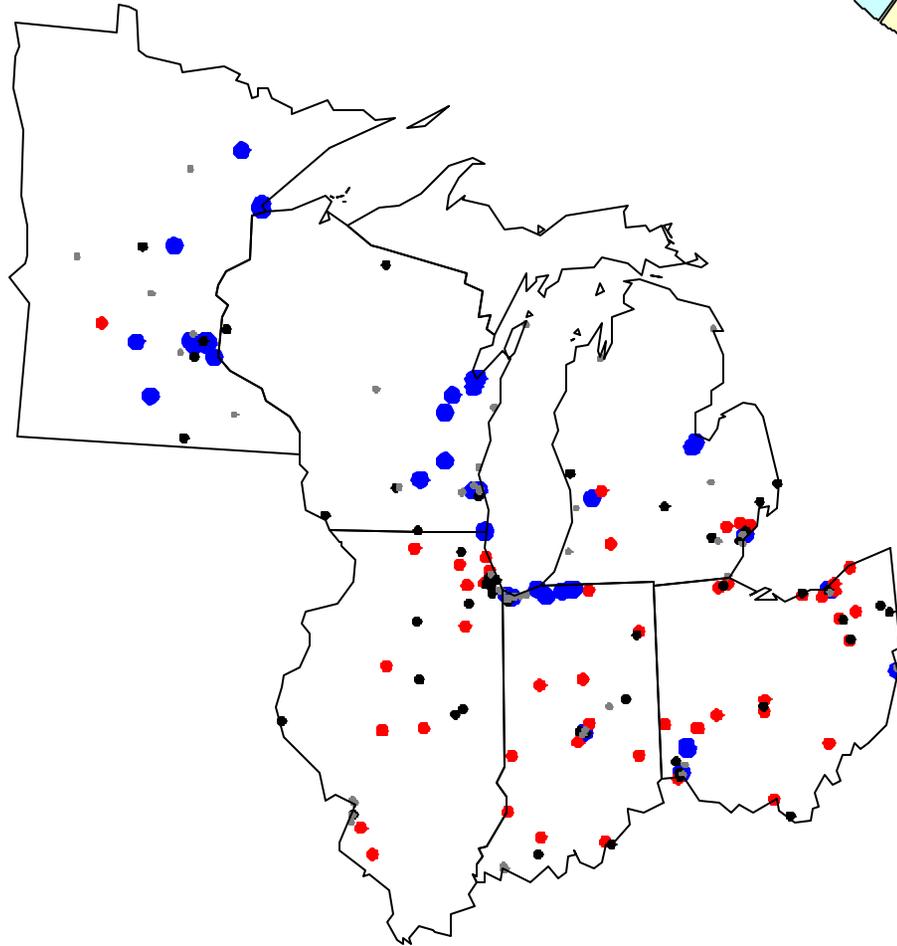
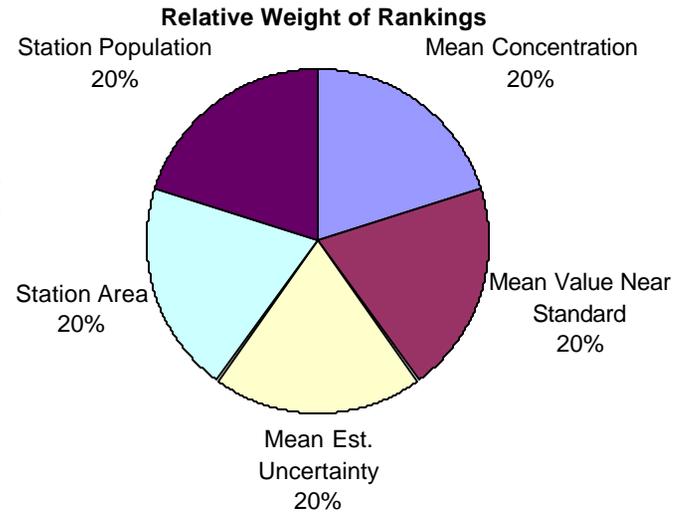
Population for PM25 Monitors: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# PM25 Quartiles

	Region 5 PM25					
	pm25mean	% of NAAQS	pm25error	dif_NAAQS_mean	area	population
Q1	16.75	111.7%	1.55565	1	5823.047	314553
Q2	14.7	98.0%	0.92585	2	1981.133	197859
Q3	12.75	85%	0.39365	3.3	464.1699	107818

# Region 5

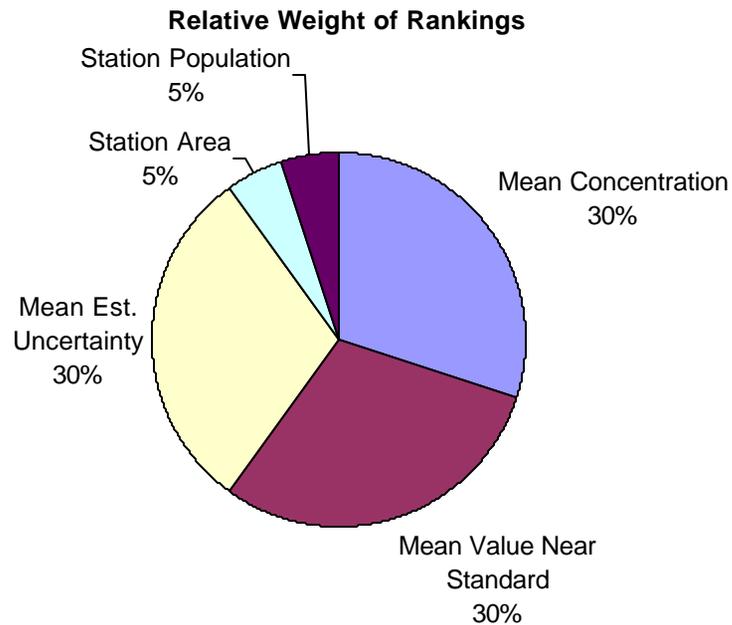
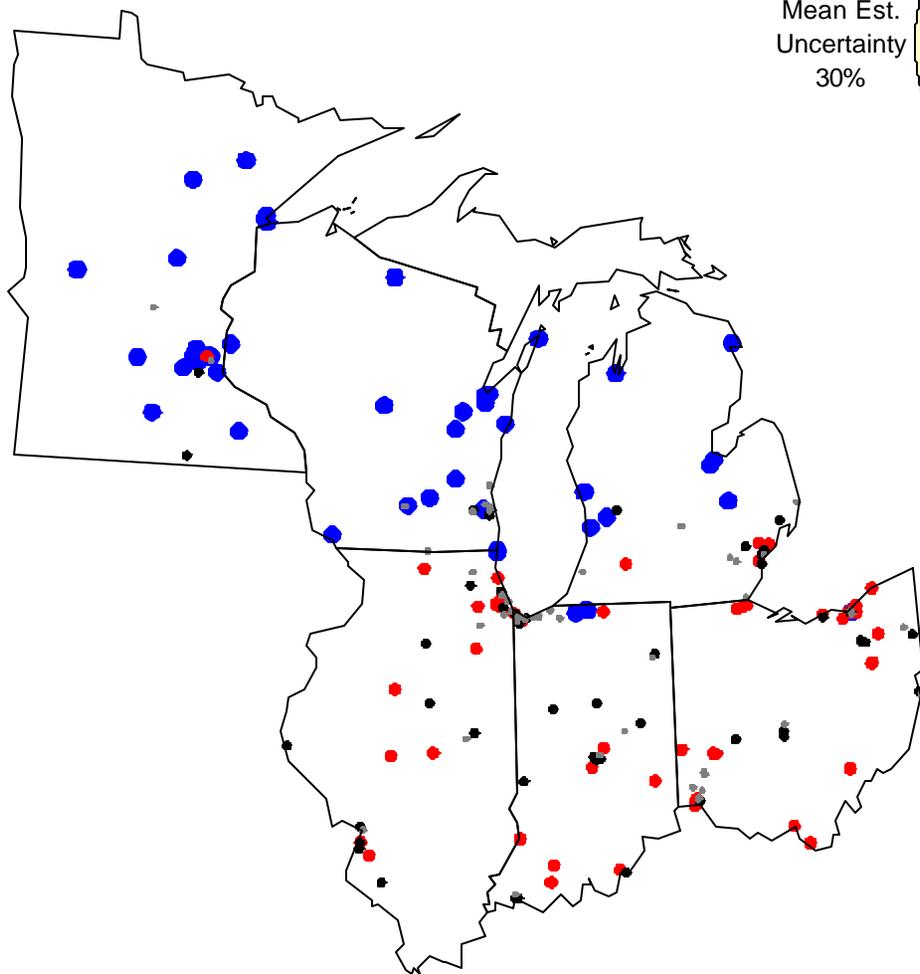
## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



PM25 Aggregate Ranking Map: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

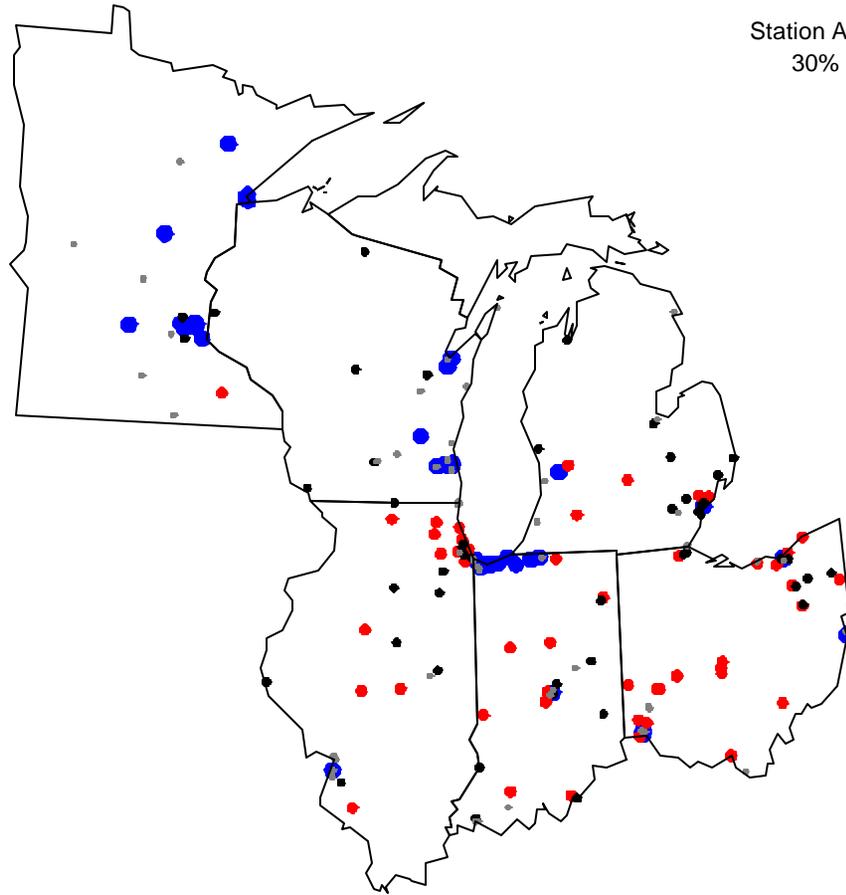
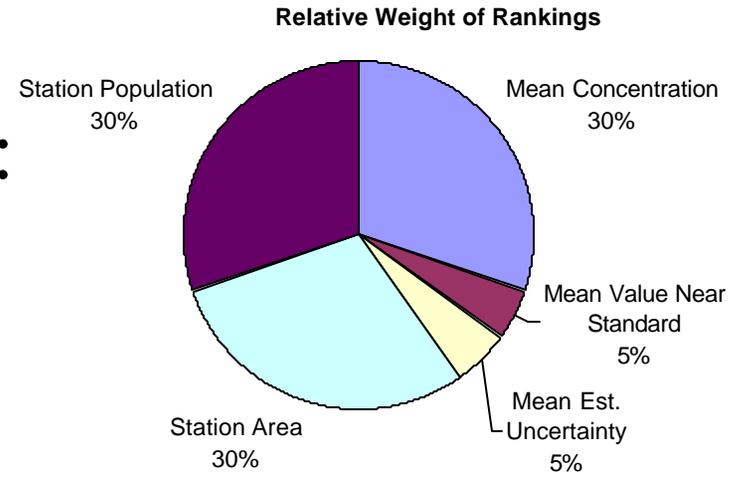
# Region 5

## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



# Region 5

## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



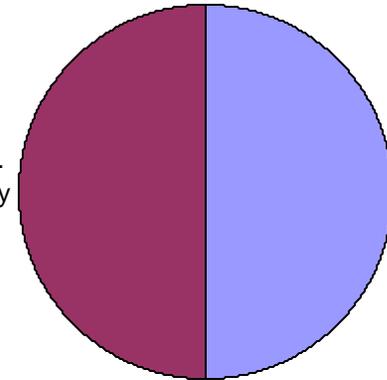
PM25 Aggregate Ranking Map B: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

# Region 5

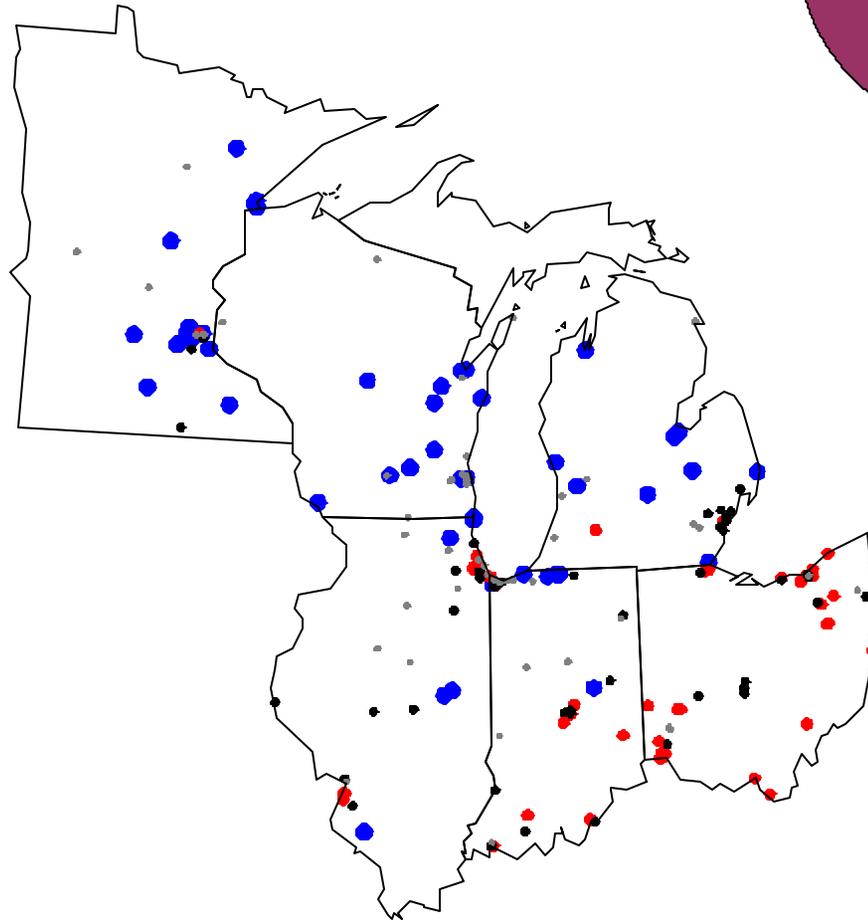
## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value

Relative Weight of Rankings

Mean Est.  
Uncertainty  
50%



Mean  
Concentration  
50%

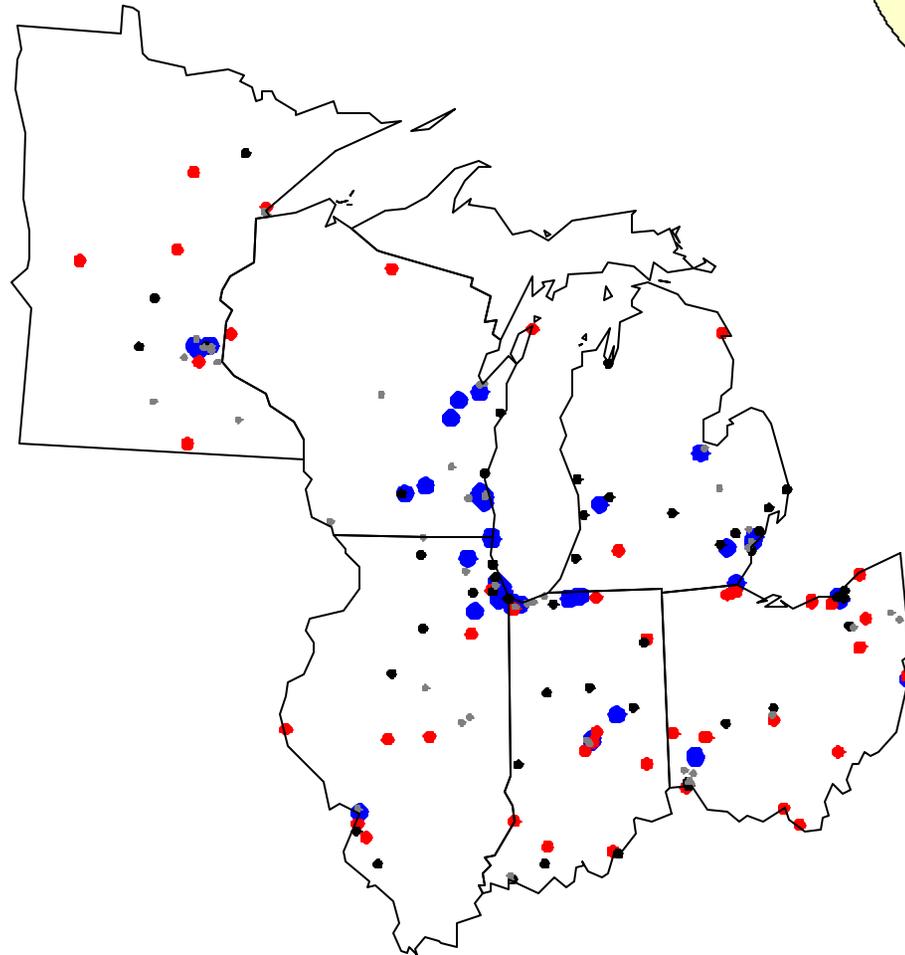
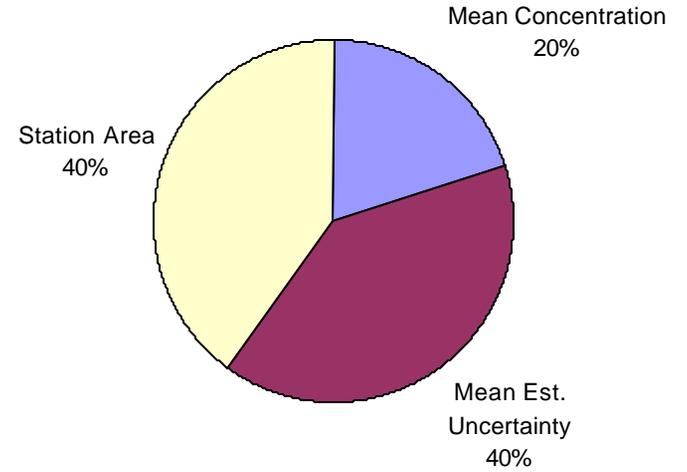


PM25 Aggregate Ranking Map C: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

# Region 5

## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value

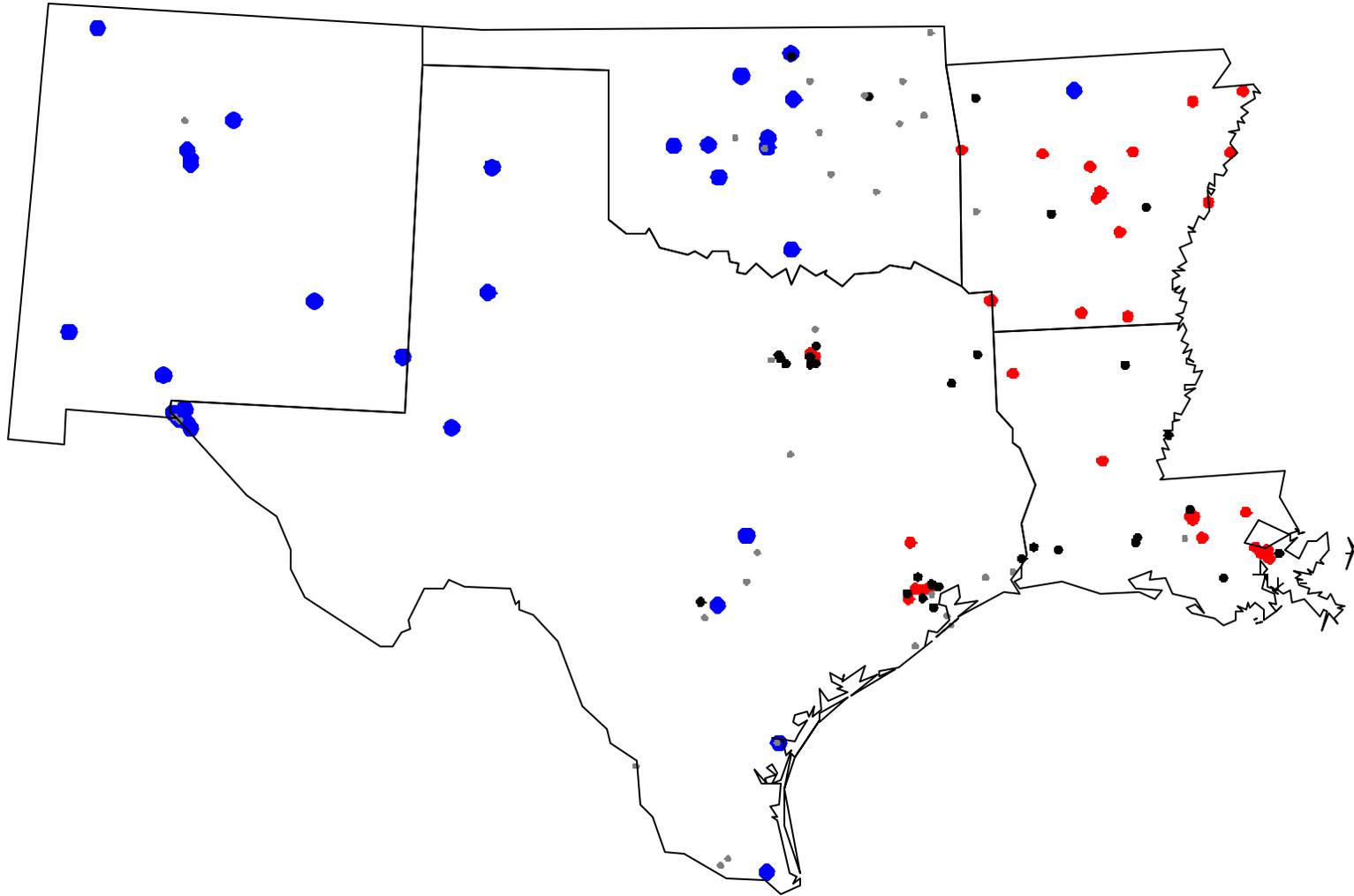
Relative Weight of Rankings



PM25 Aggregate Ranking Map D: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

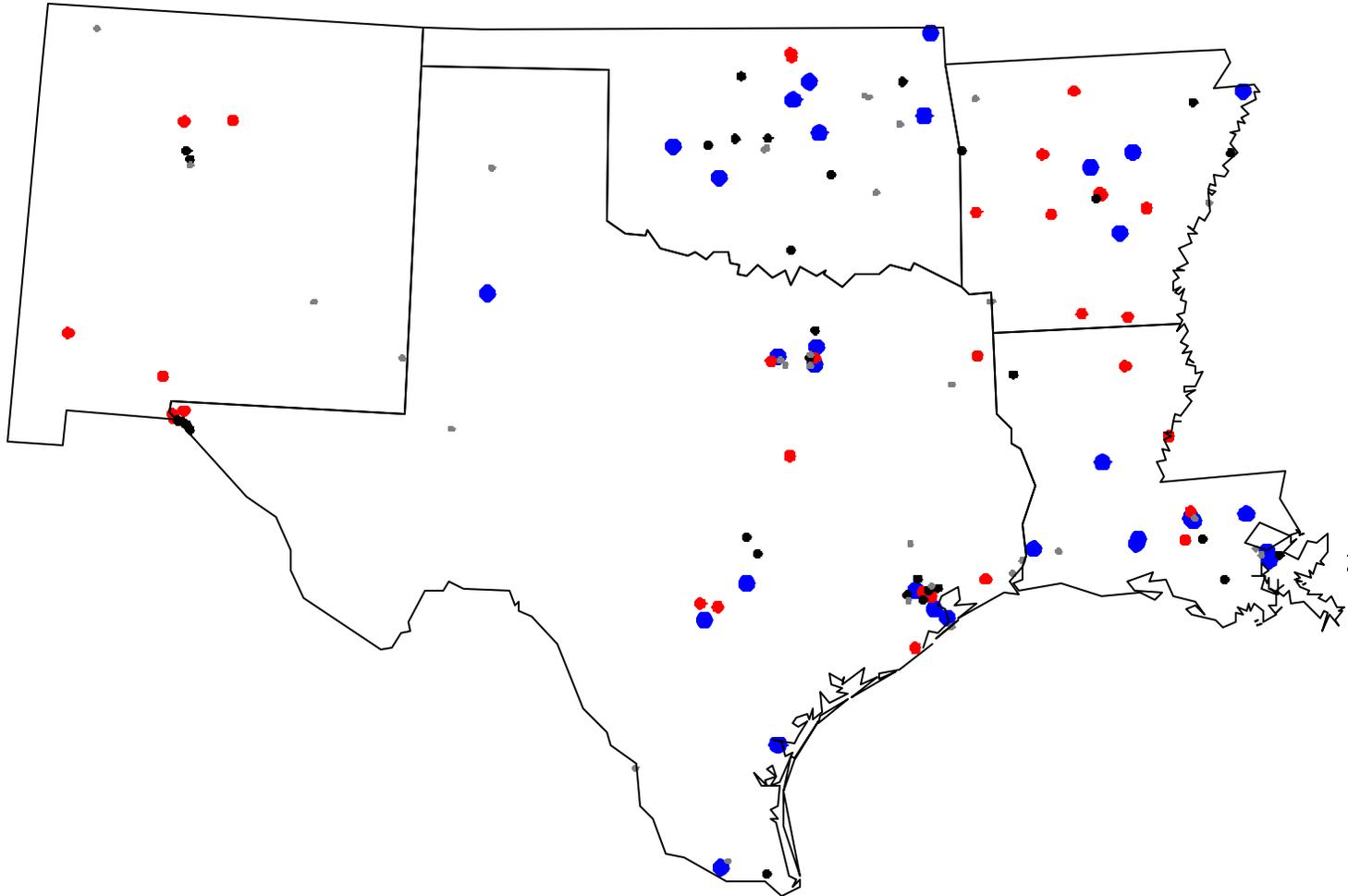
# Region 6 PM25 Annual Mean:

Red=Large Value, Blue=Small Value



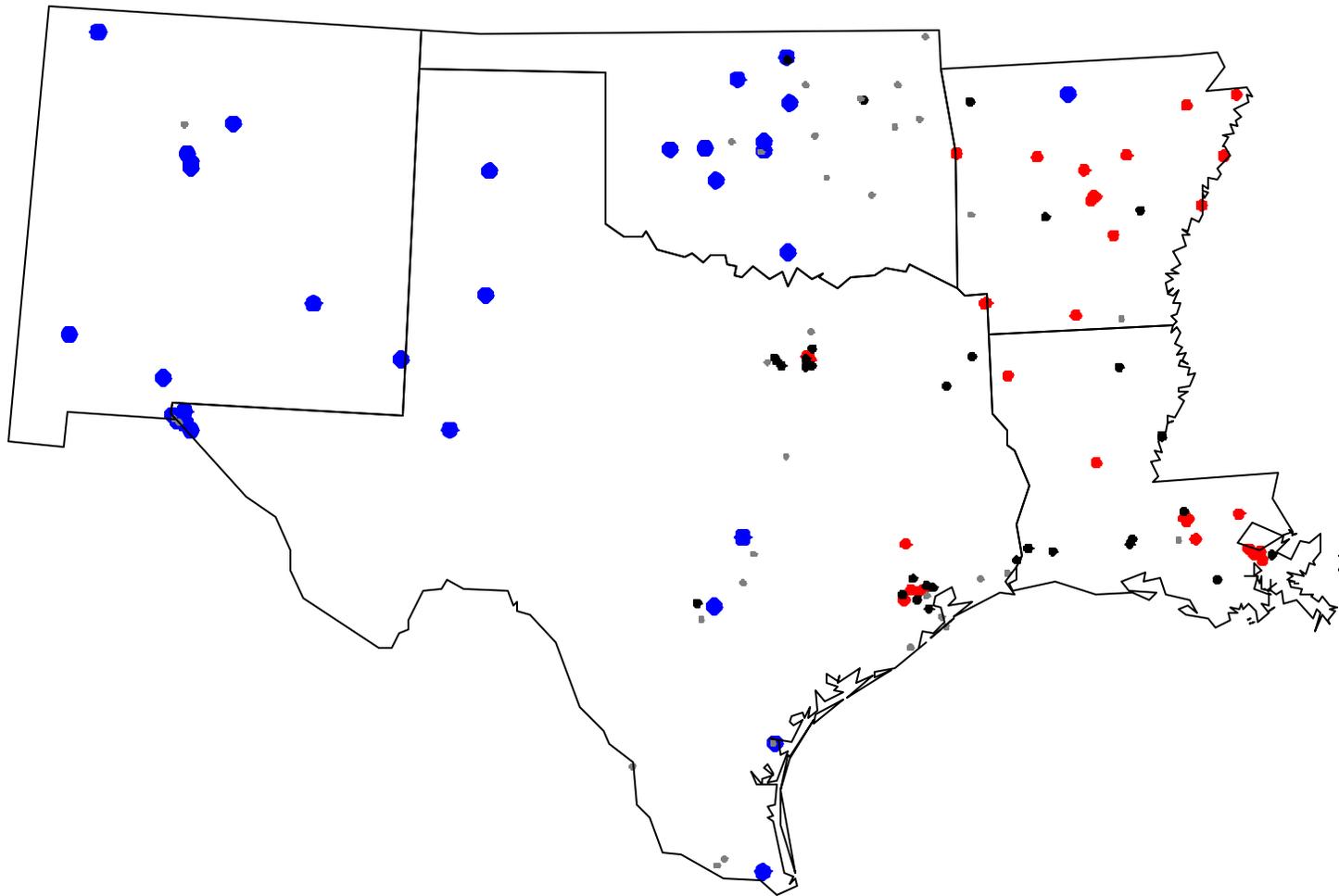
PM25 Annual Mean: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 6 Predicting PM25 Annual Mean: Red=High Uncertainty, Blue=Low Uncertainty



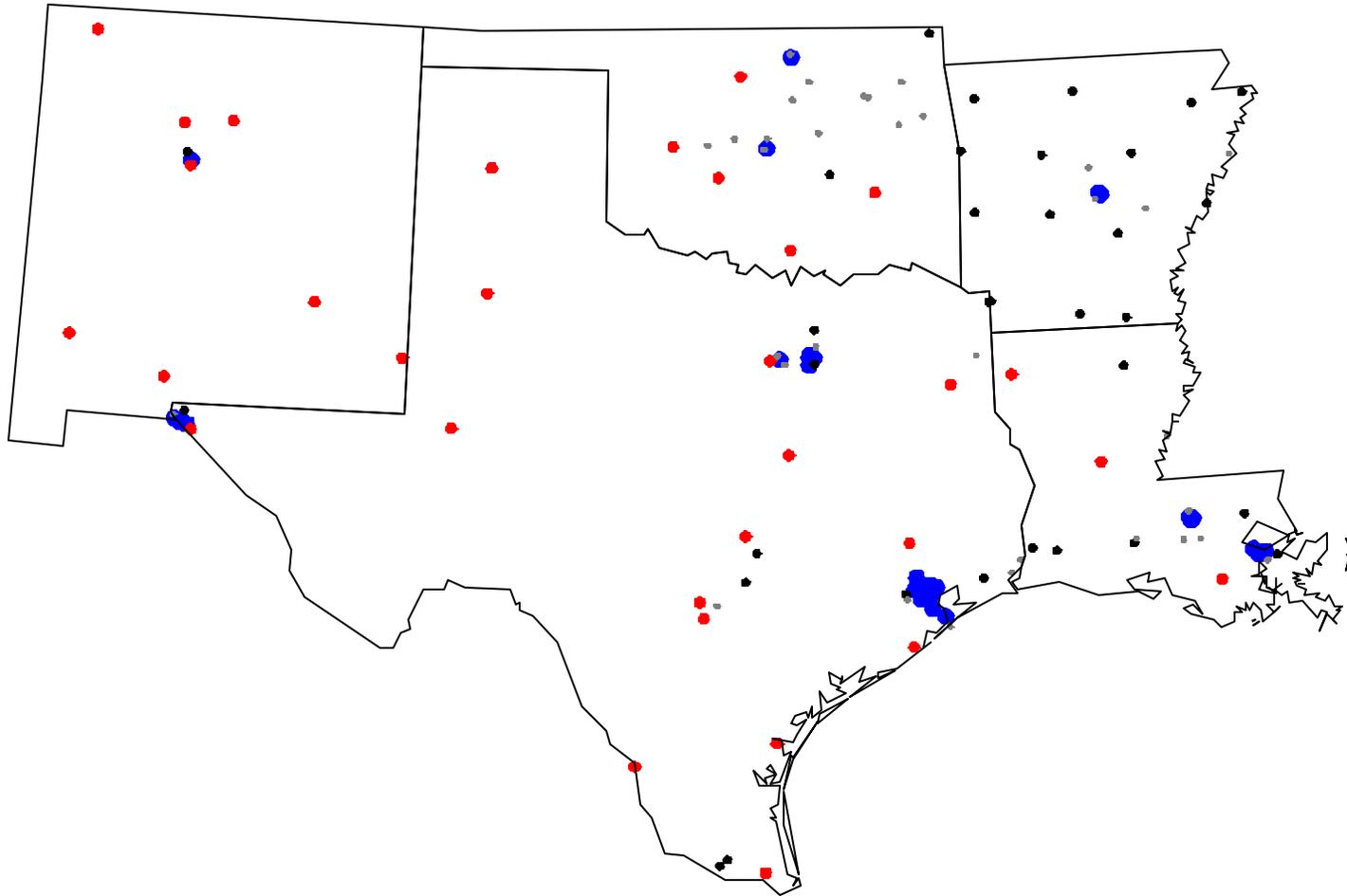
Predicting PM25 Annual Mean: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

# Region 6 Deviation from PM25 Annual Mean NAAQS: Red=Small Deviation, Blue=Large Deviation



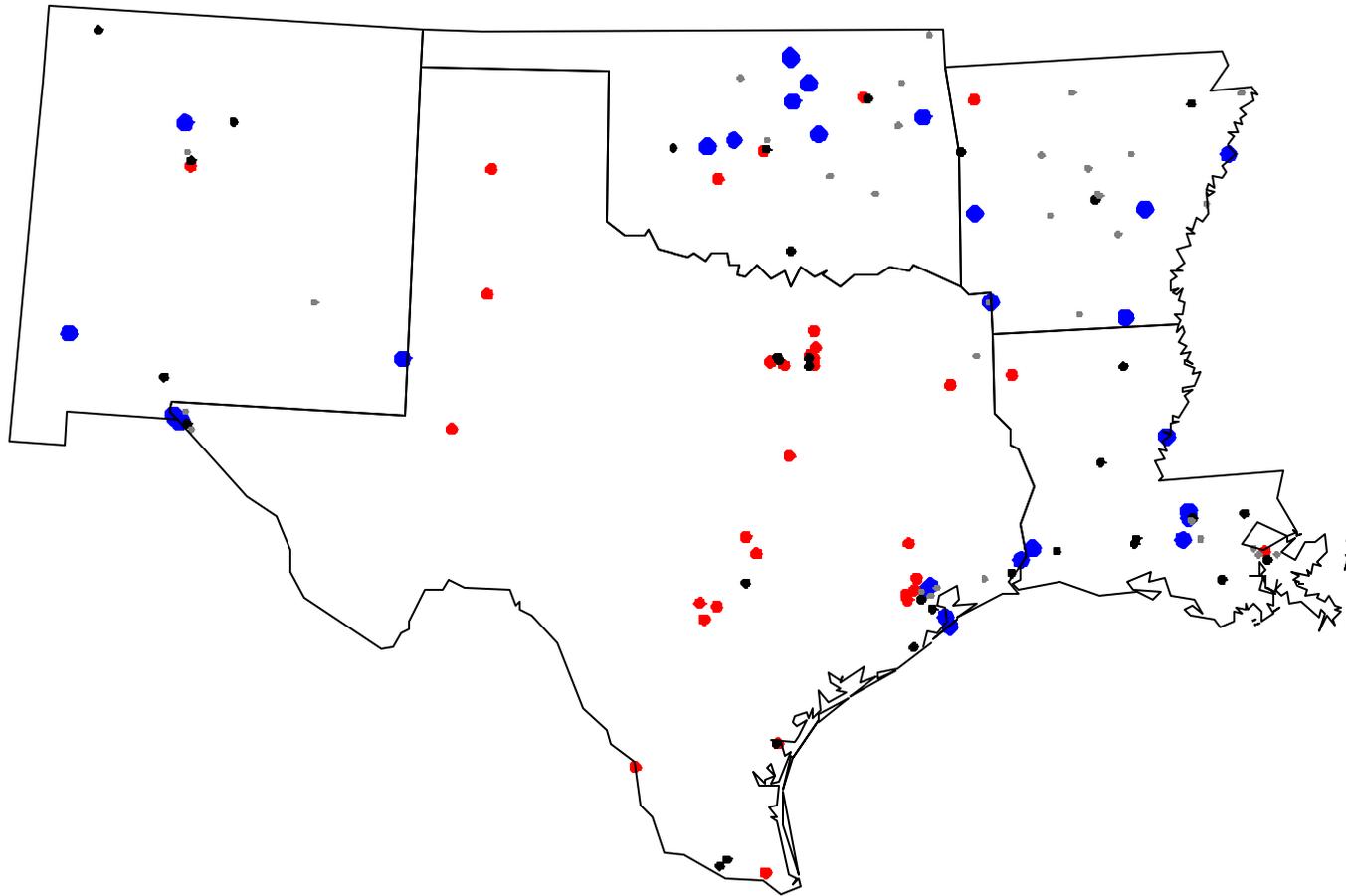
Deviation from PM25 Annual Mean NAAQS: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

# Region 6 Area for PM25 Monitors: Red=Large Area, Blue=Small Area



Area for PM25 Monitors: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 6 Population for PM25 Monitors: Red=Large Population, Blue=Small Population



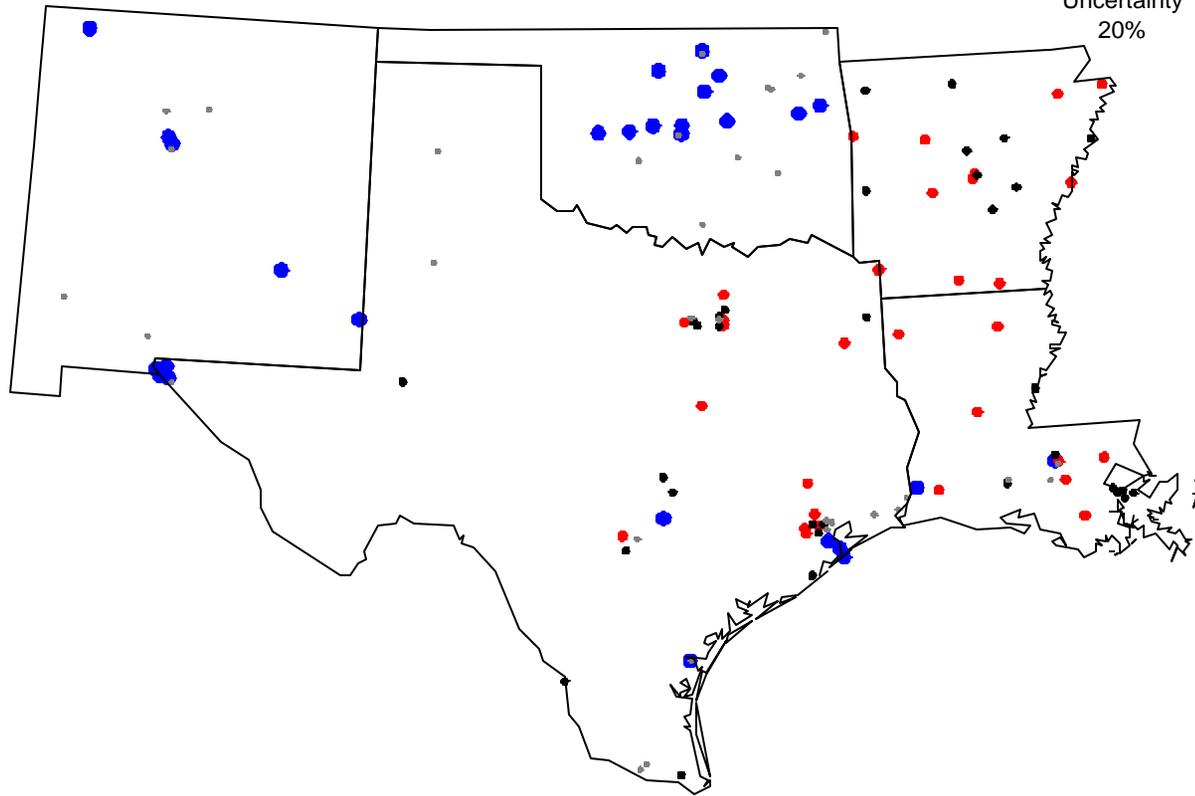
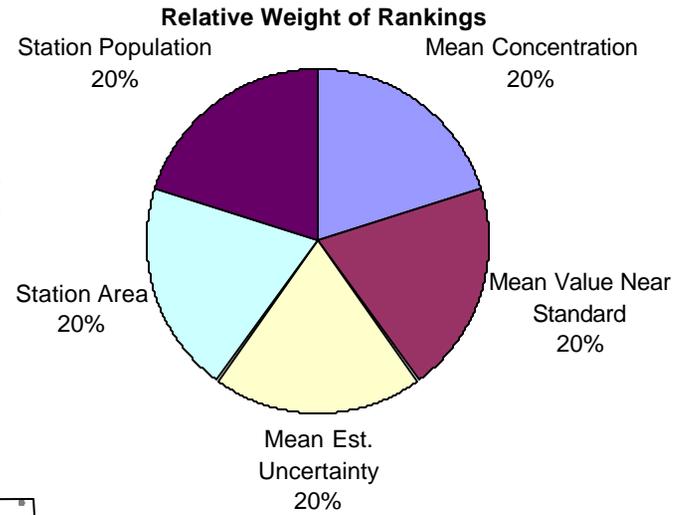
Population for PM25 Monitors: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# PM25 Quartiles

	Region 6 PM25					
	pm25mean	% of NAAQS	pm25error	dif_NAAQS_mean	area	population
Q1	13.7	92.3%	1.5042	1.3	14408.9	322520
Q2	12.2	81.3%	0.7389	2.9	7000.029	182201
Q3	10.4	69.3%	0.3527	4.6	2435.449	101097

# Region 6

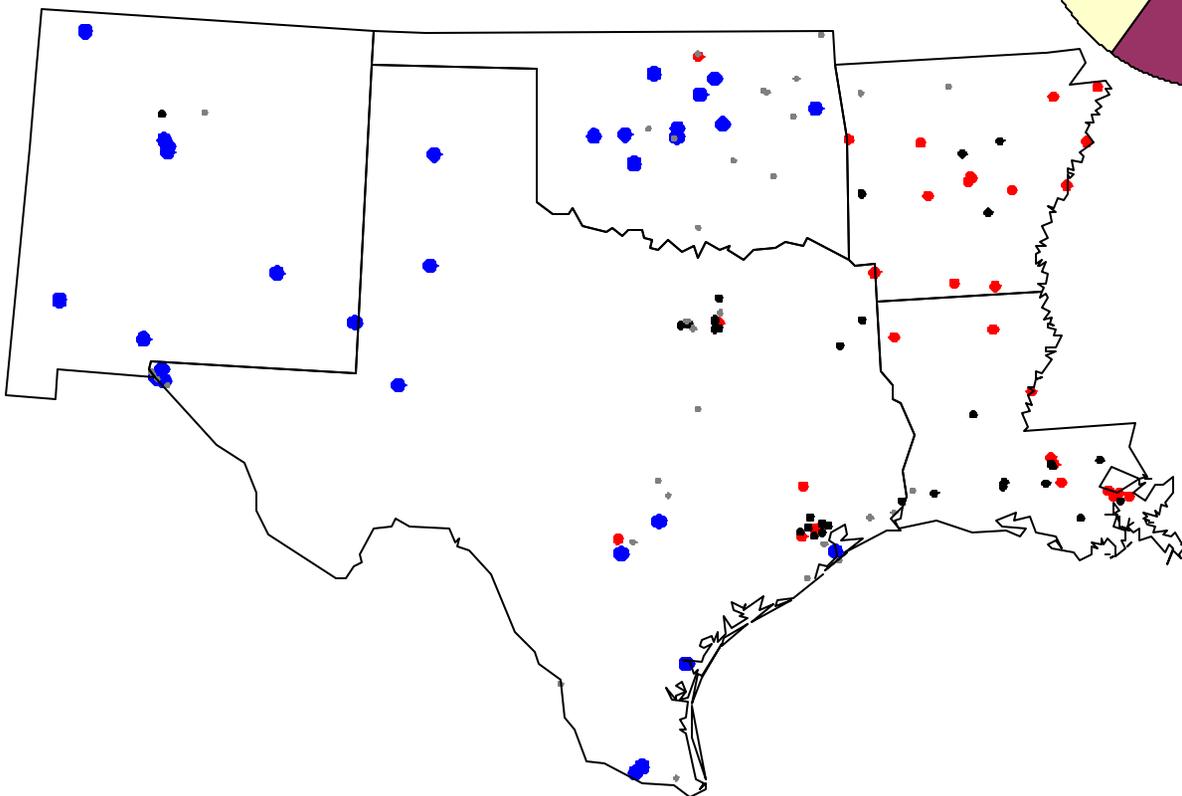
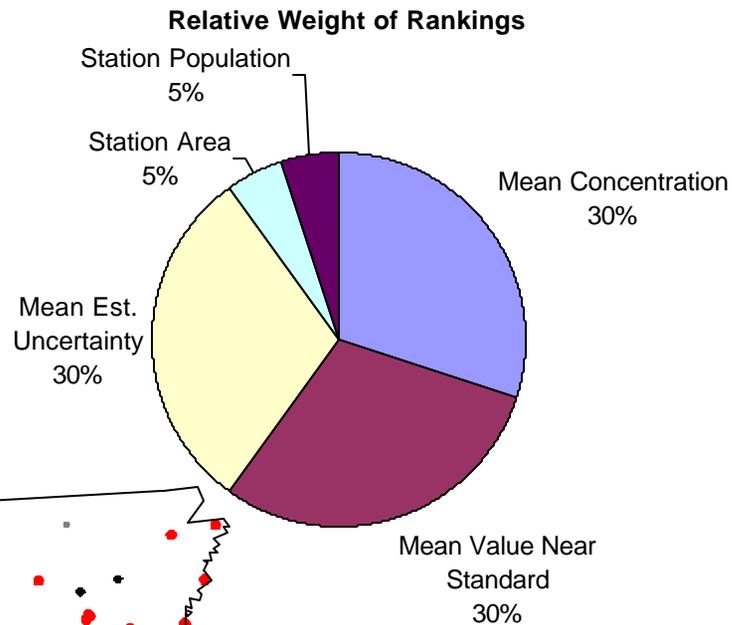
## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



PM25 Aggregate Ranking Map: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 6

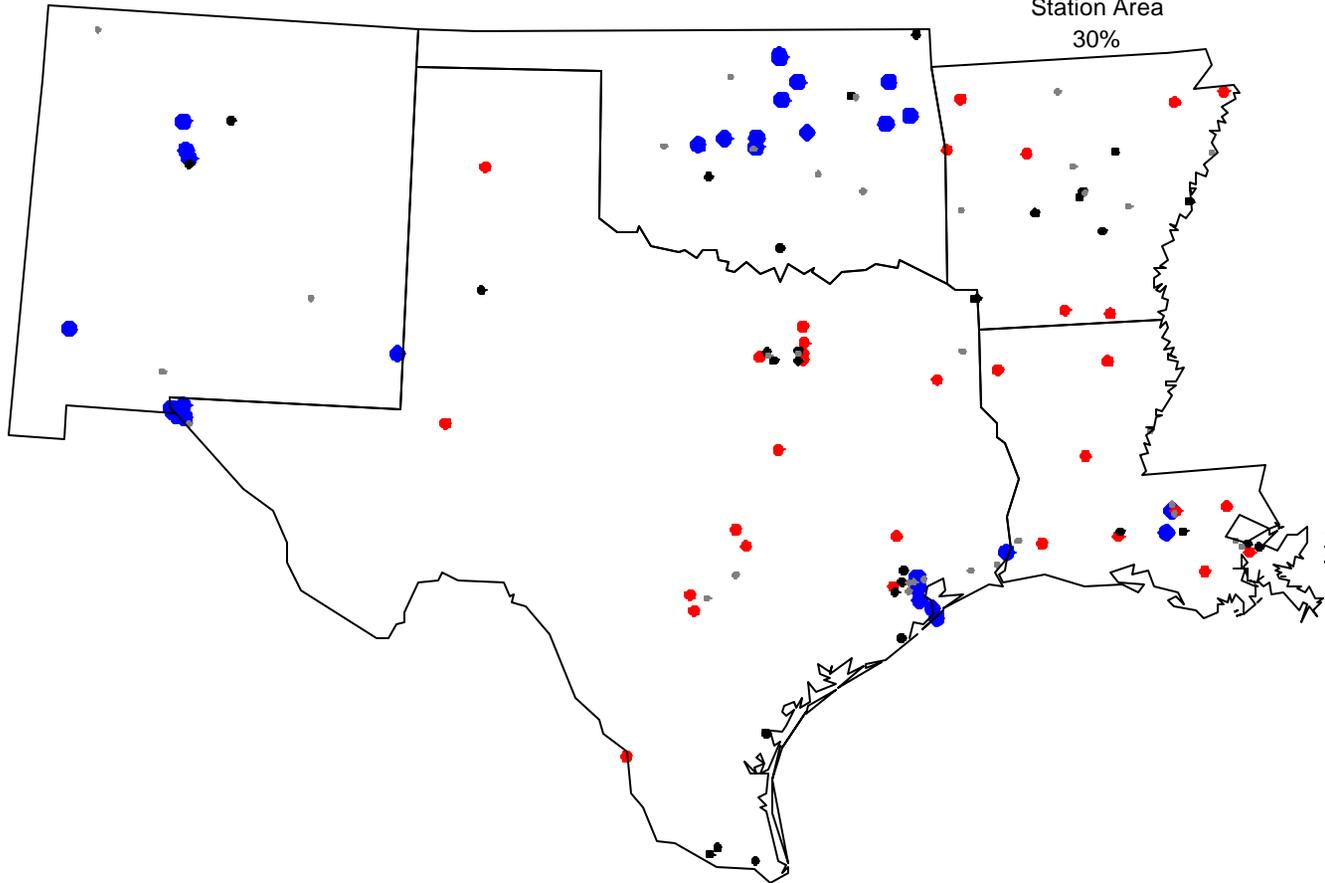
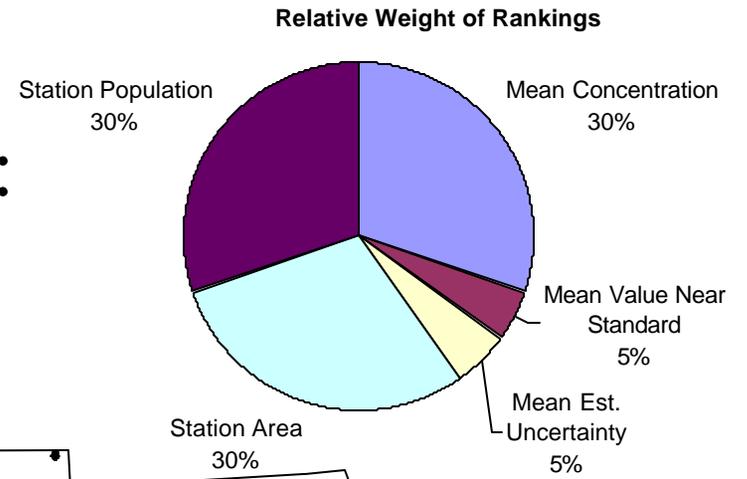
## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



PM25 Aggregate Ranking Map A: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

# Region 6

## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value

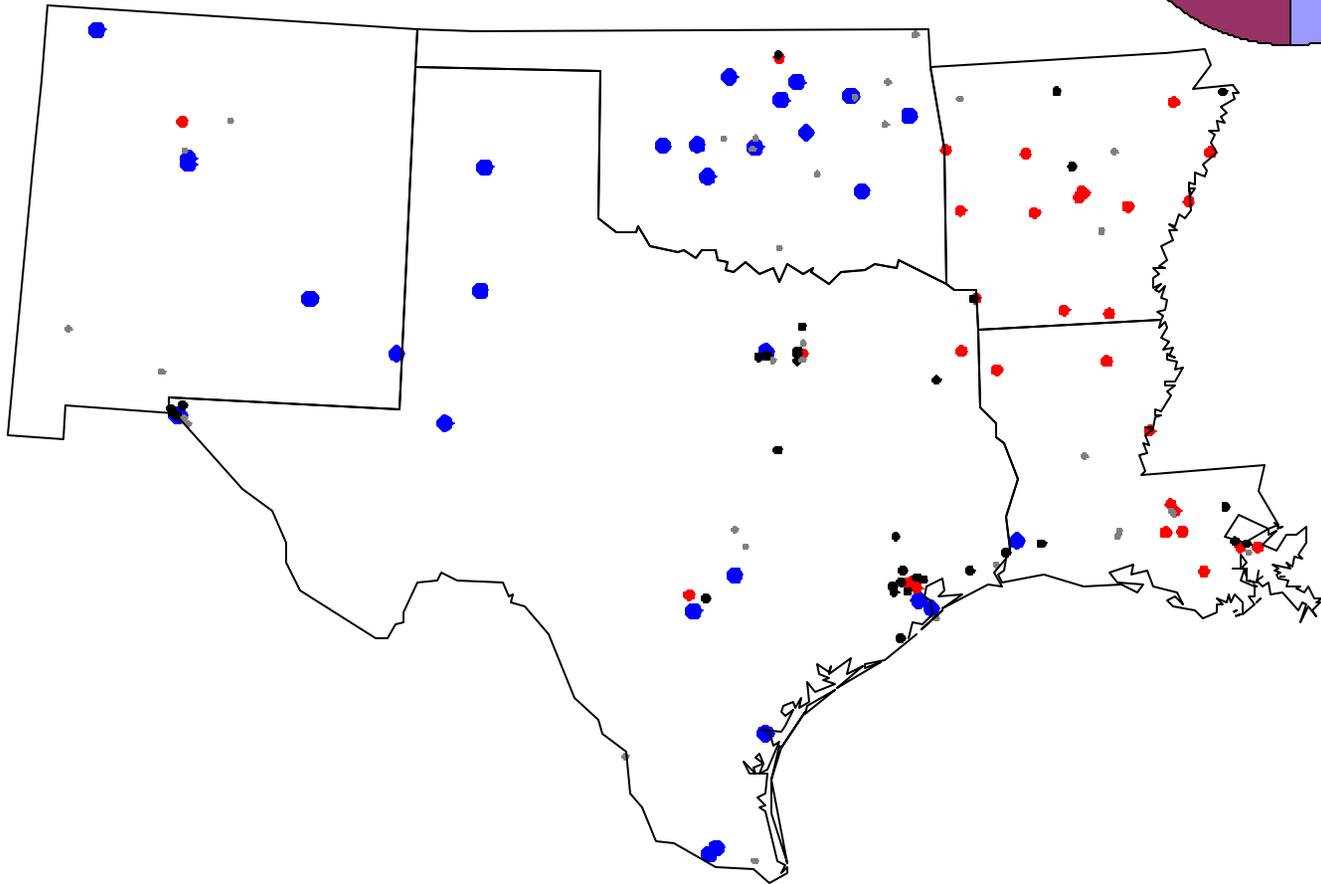
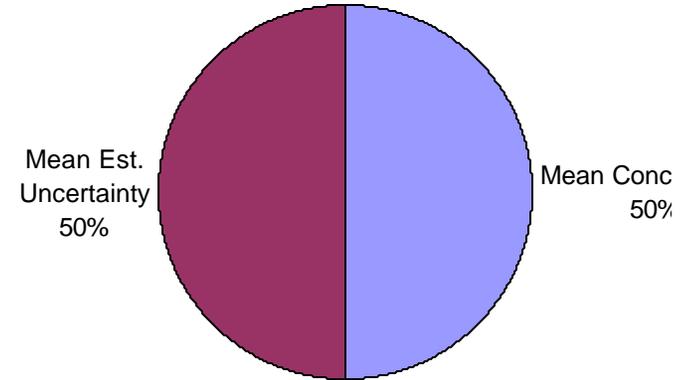


PM25 Aggregate Ranking Map B: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

# Region 6

## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value

Relative Weight of Rankings

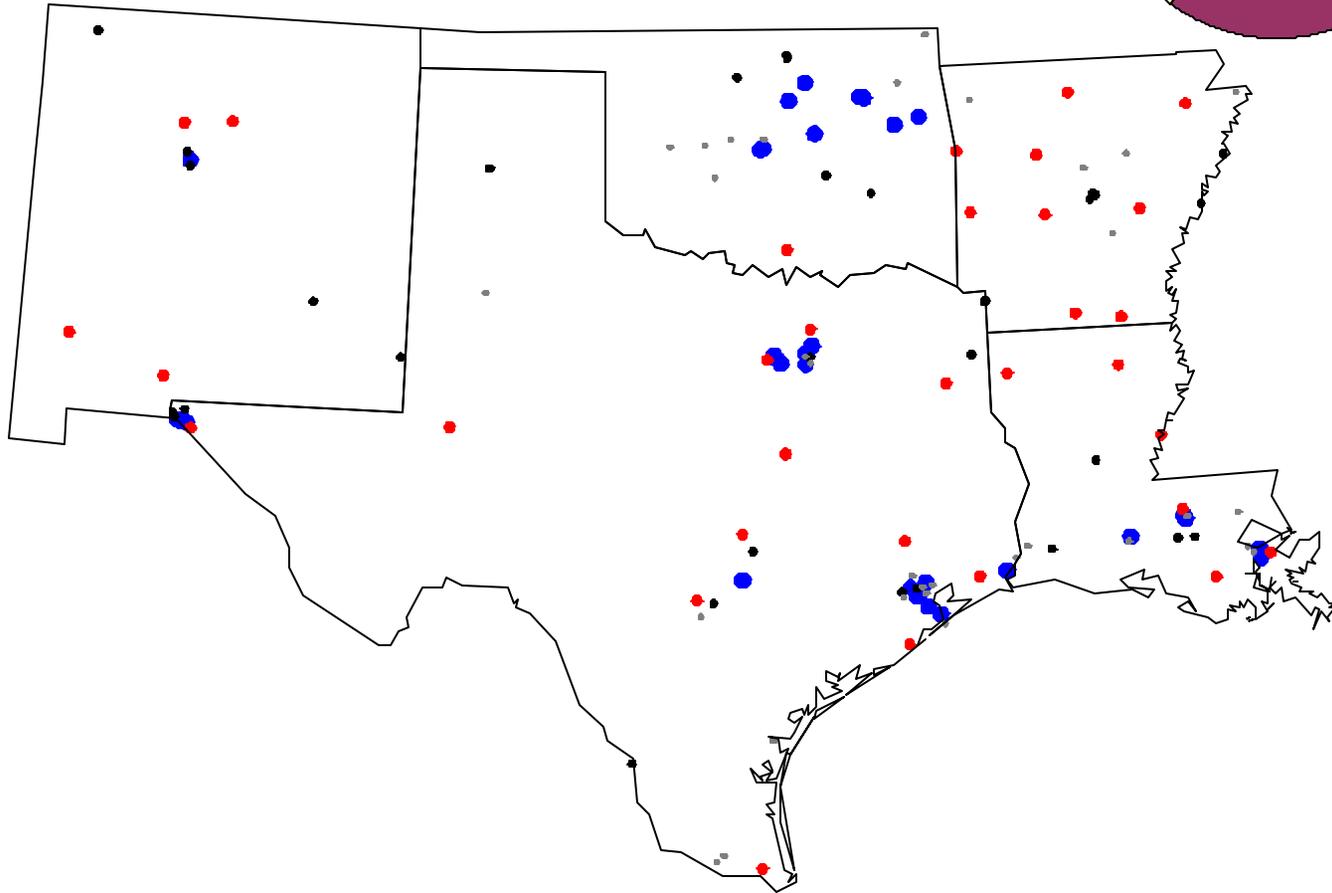
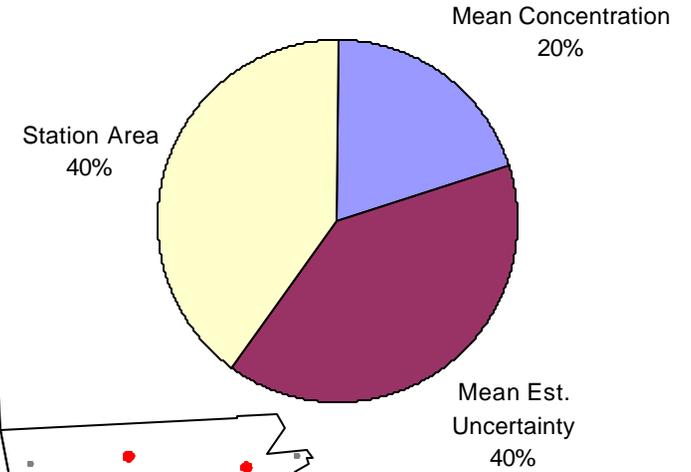


PM25 Aggregate Ranking Map C: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

# Region 6

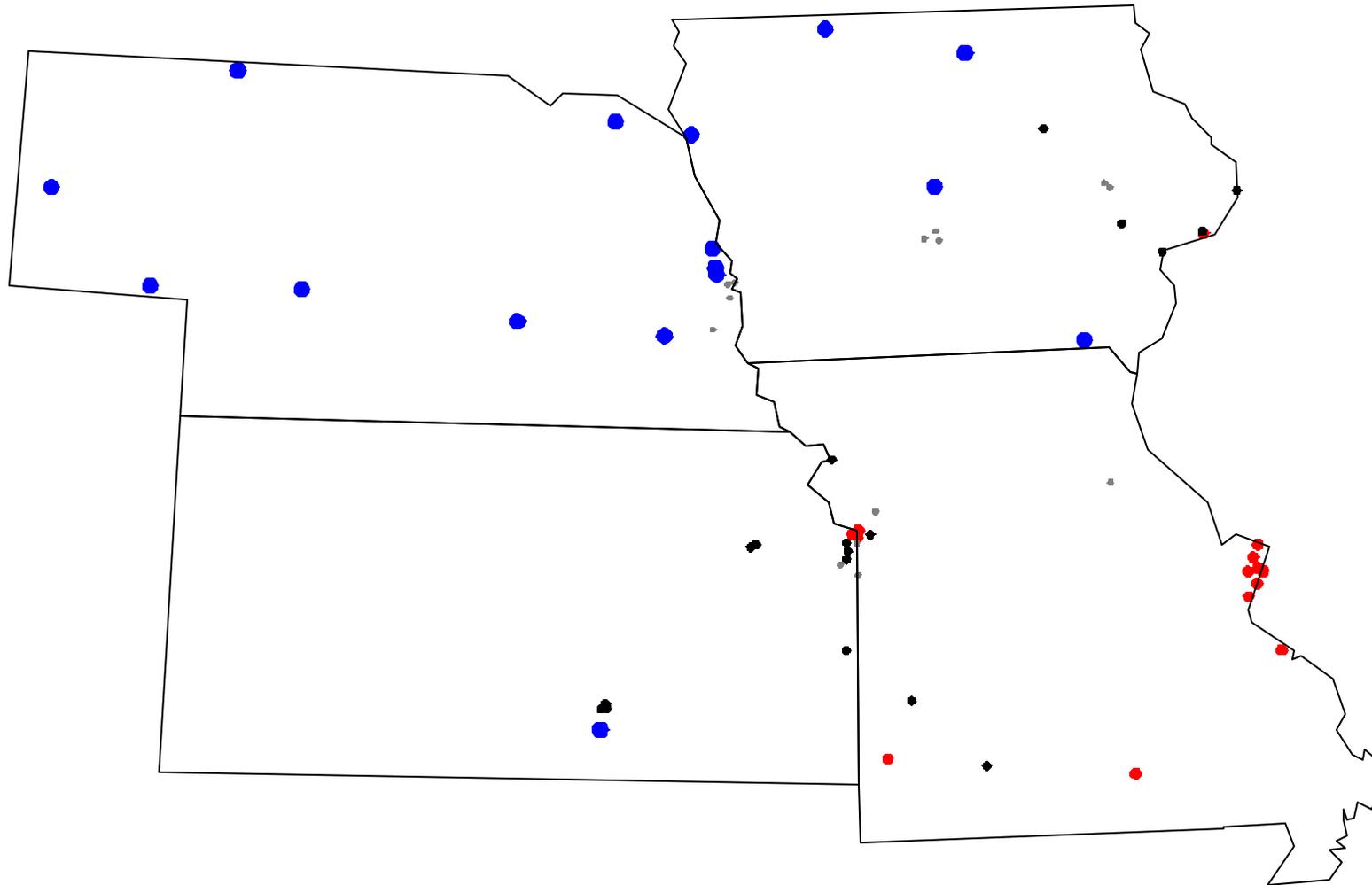
## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value

Relative Weight of Rankings



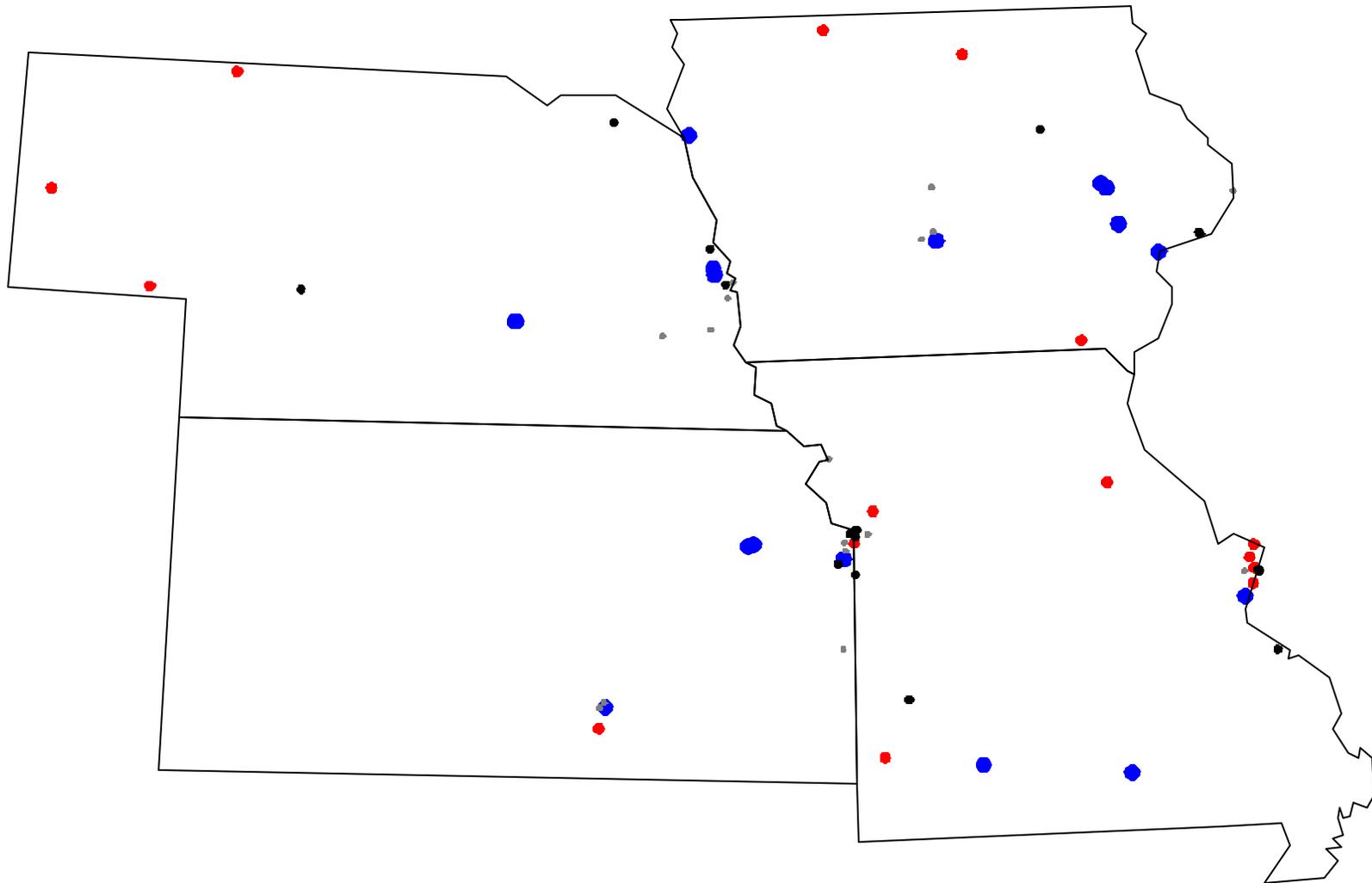
PM25 Aggregate Ranking Map D: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

# Region 7 PM25 Annual Mean: Red=Large Value, Blue=Small Value



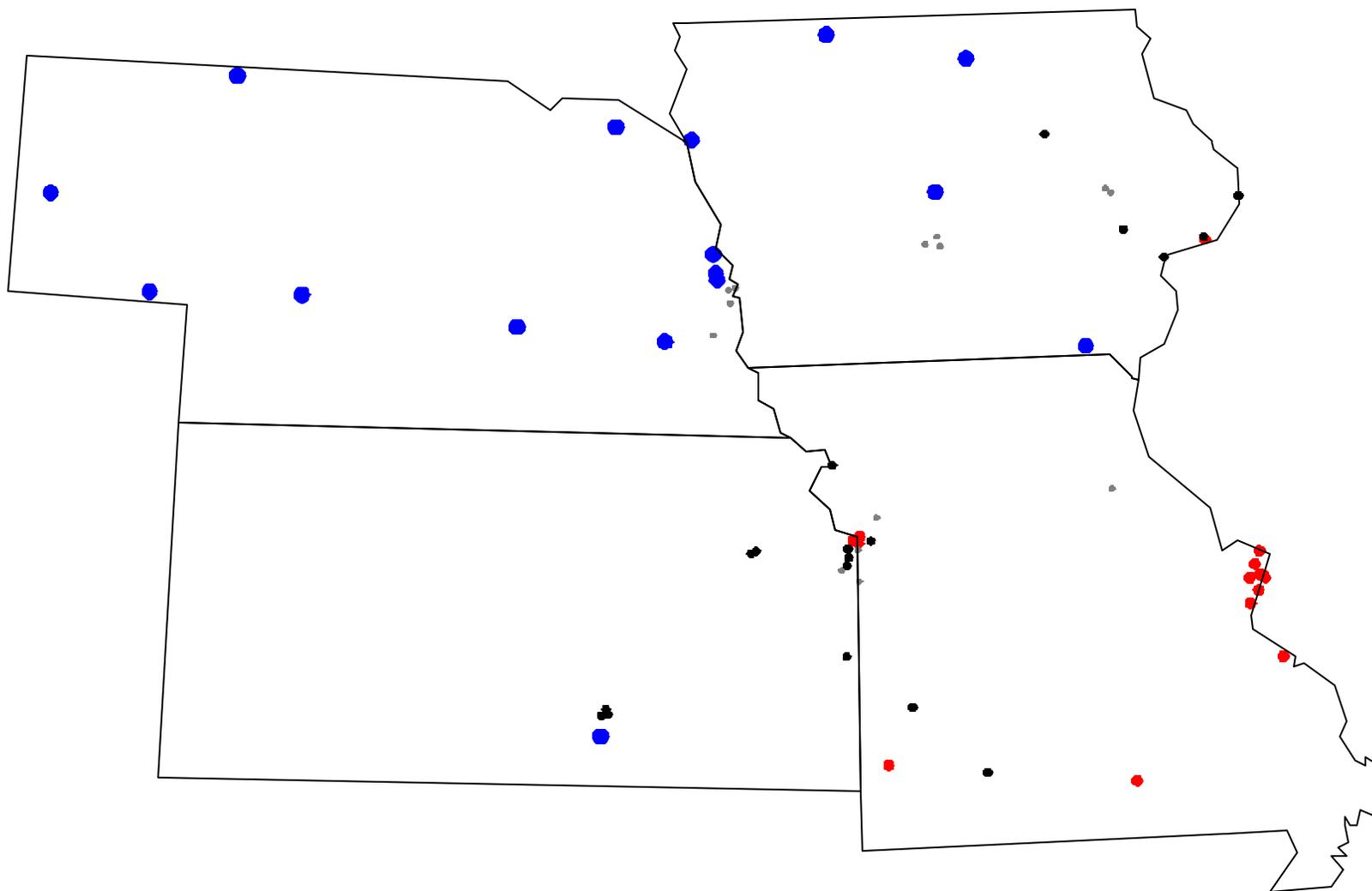
PM25 Annual Mean: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 7 Predicting PM25 Annual Mean: Red=High Uncertainty, Blue=Low Uncertainty



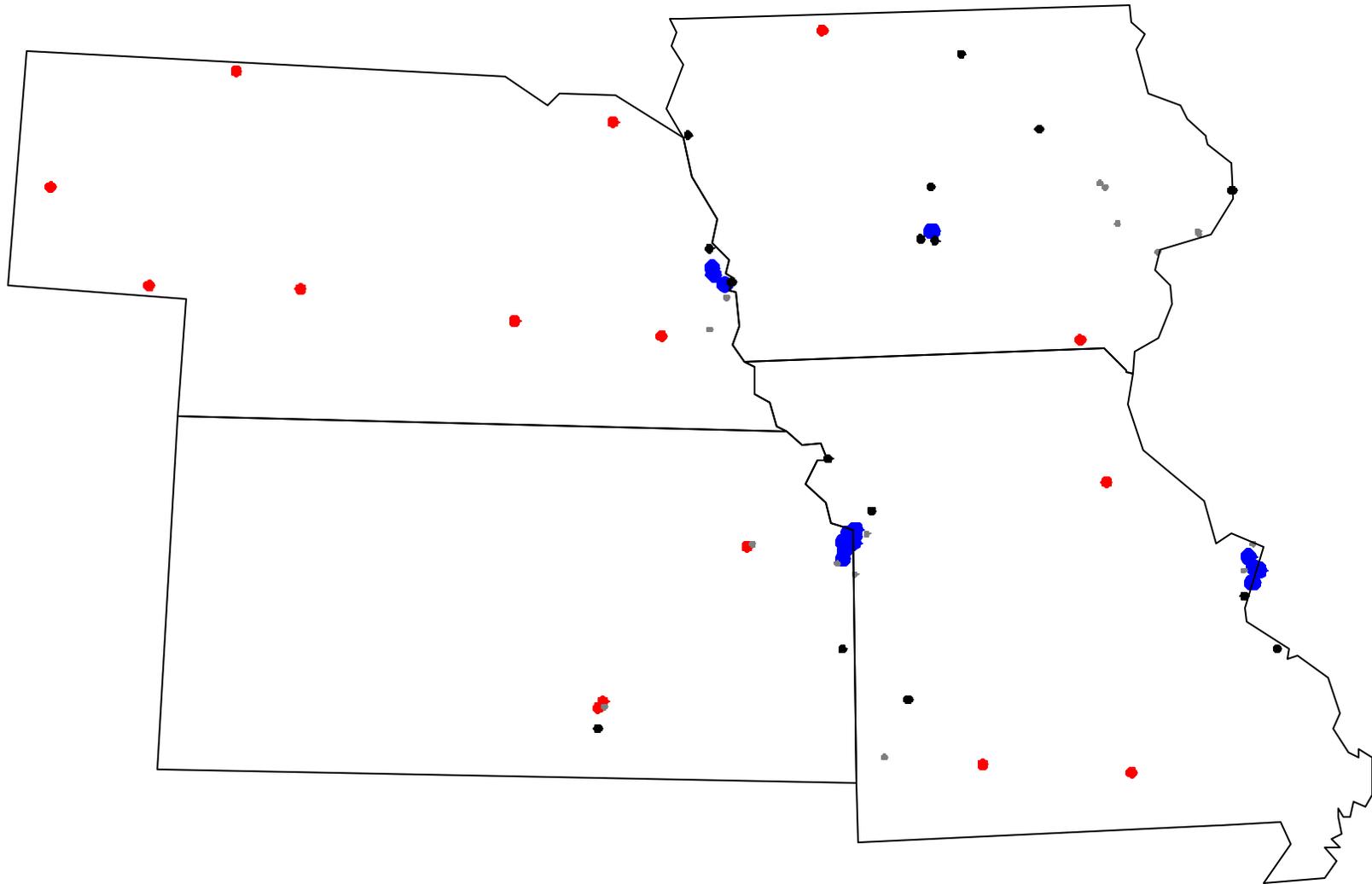
Predicting PM25 Annual Mean: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 7 Deviation from PM25 Annual Mean NAAQS: Red=Small Deviation, Blue=Large Deviation



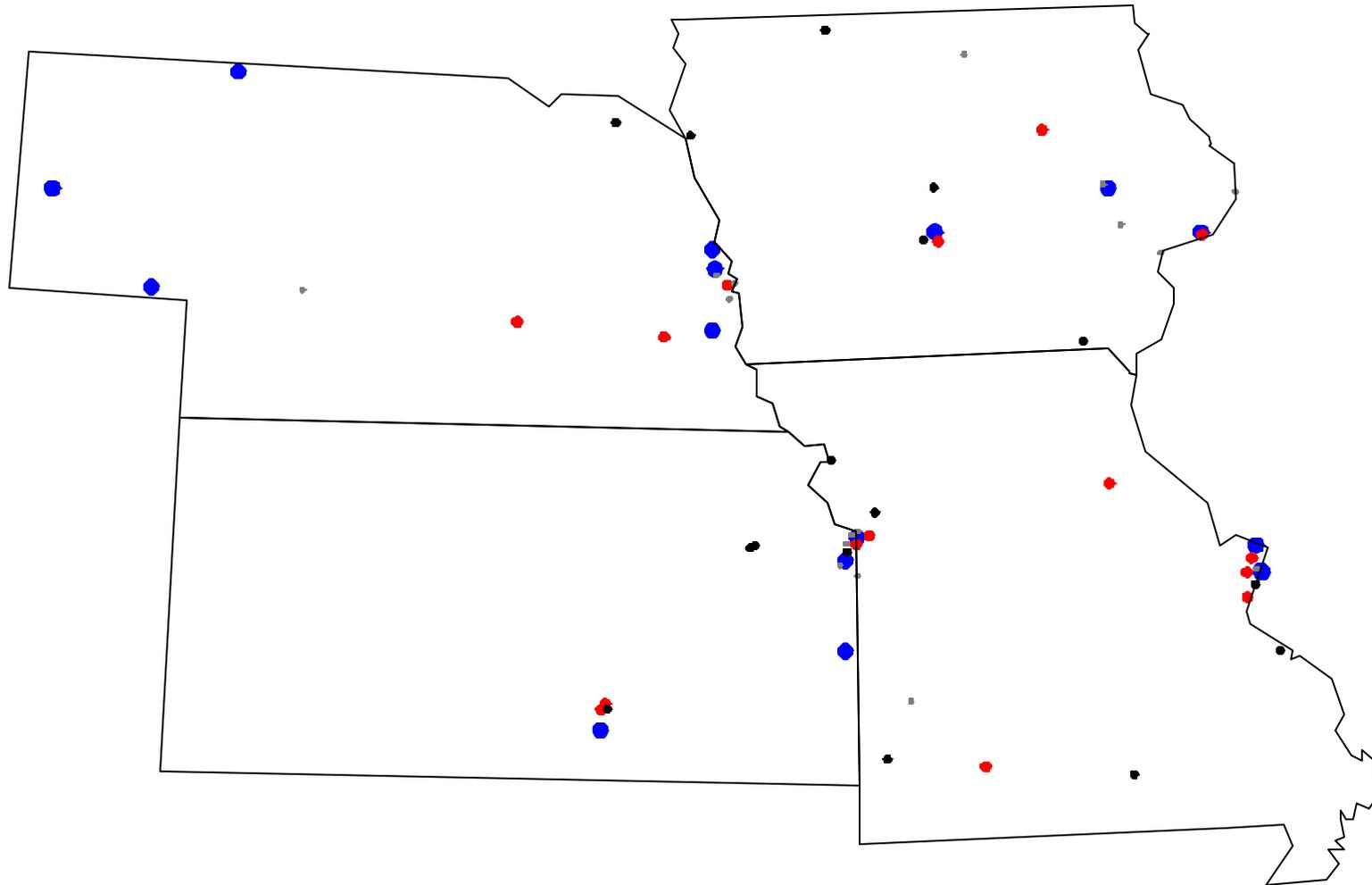
Deviation from PM25 Annual Mean NAAQS: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 7 Area for PM25 Monitors: Red=Large Area, Blue=Small Area



Area for PM25 Monitors: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 7 Population for PM25 Monitors: Red=Large Population, Blue=Small Population



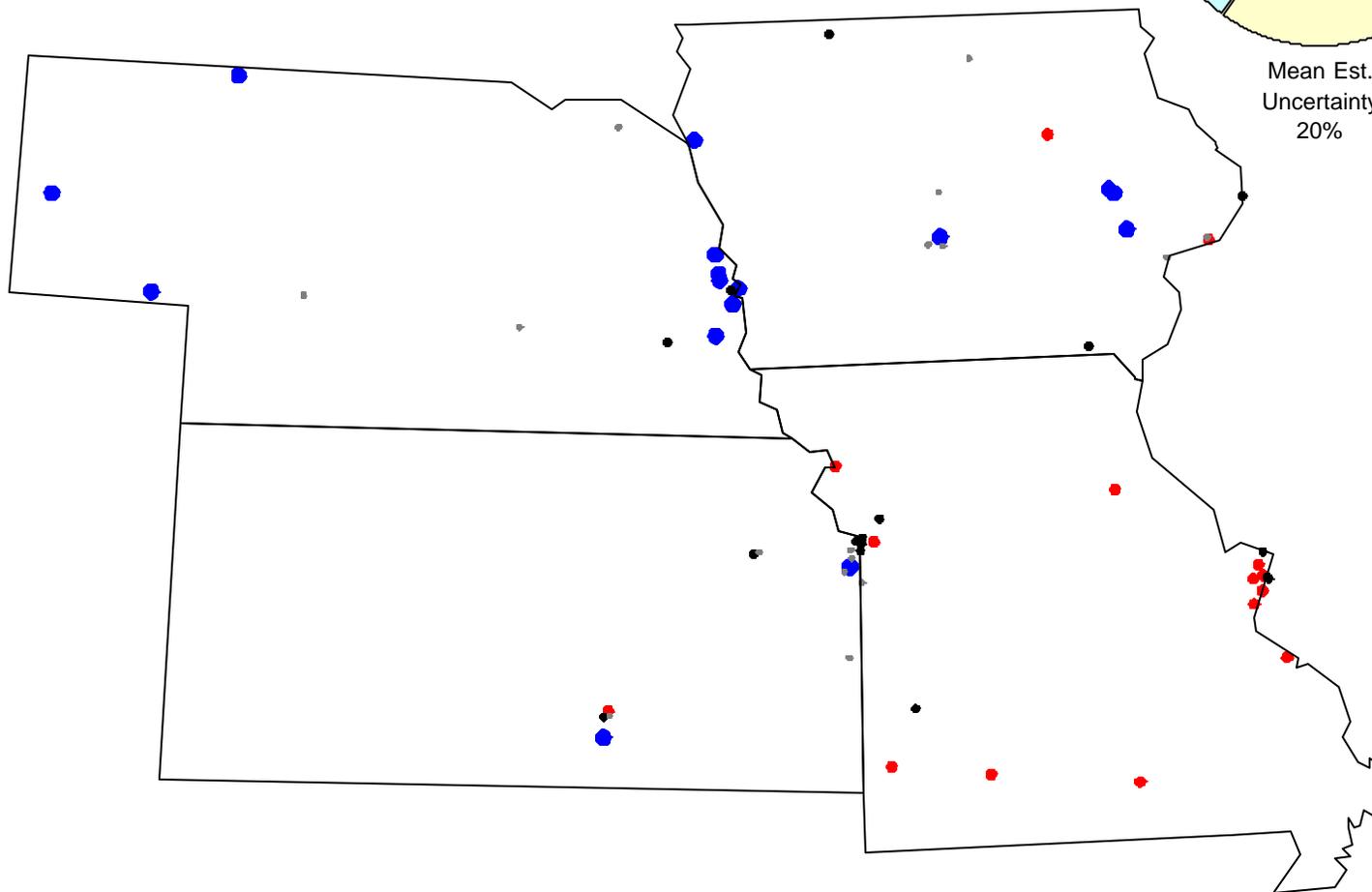
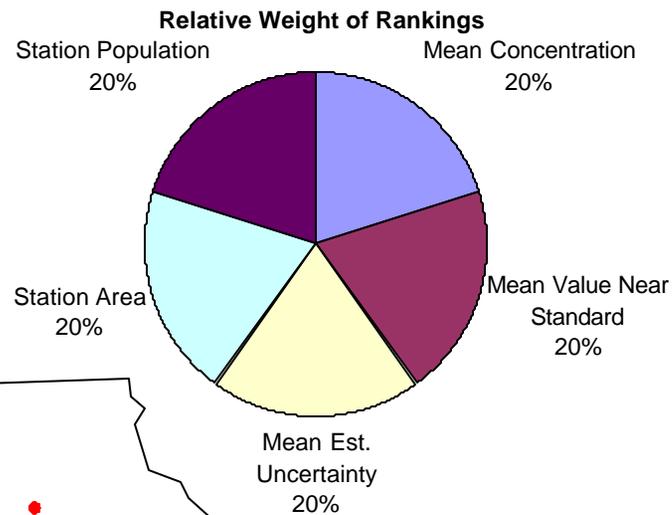
Population for PM25 Monitors: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# PM25 Quartiles

	Region 7 PM25					
	pm25mean	% of NAAQS	pm25error	dif_NAAQS_mean	area	population
Q1	12.4	82.7%	1.0761	2.6	16735.08	258987
Q2	11.5	76.7%	0.5232	3.5	7776.72	179861
Q3	10.4	69.3%	0.1727	4.6	1316.039	104522

# Region 7

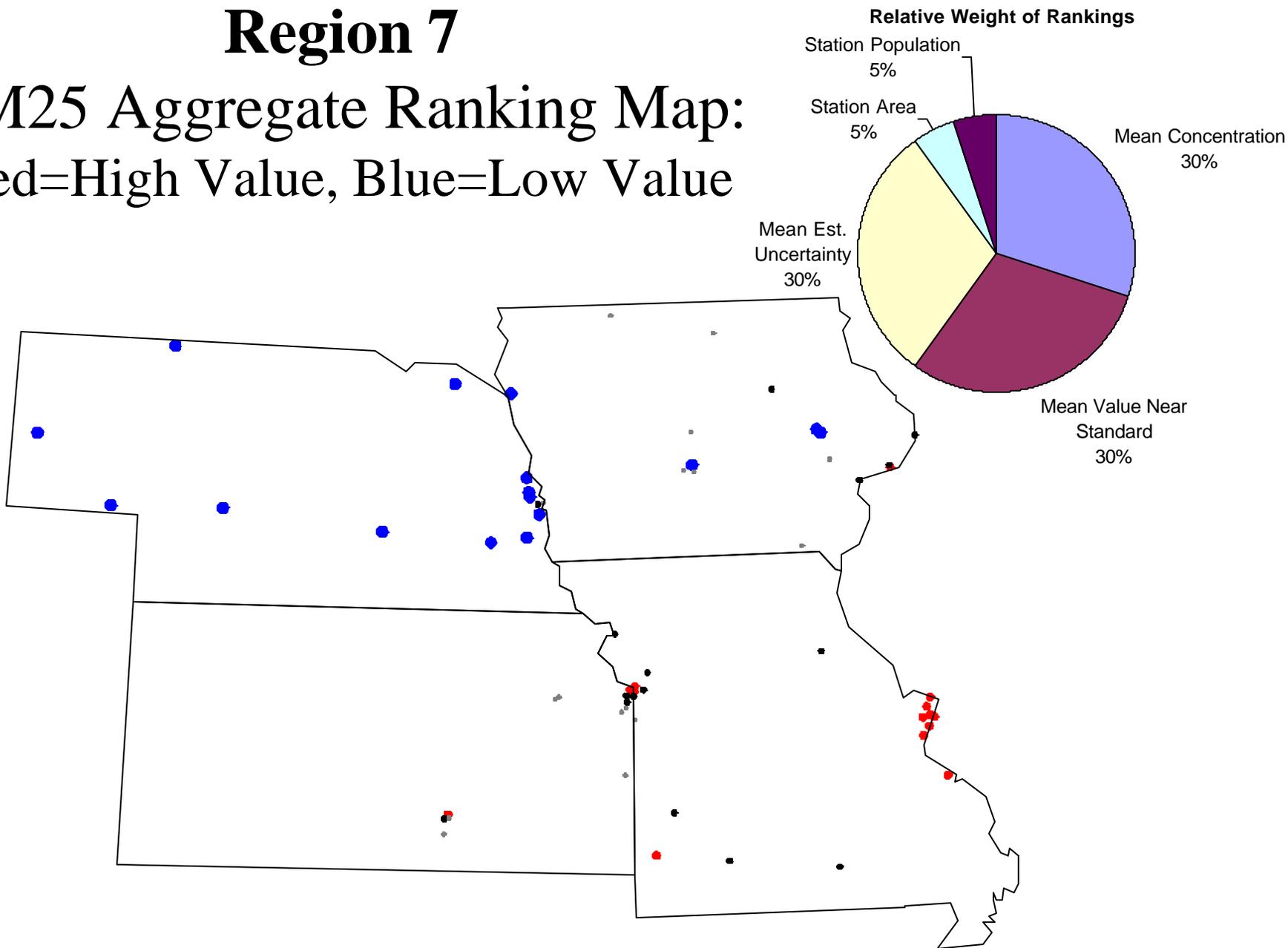
## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



PM25 Aggregate Ranking Map: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

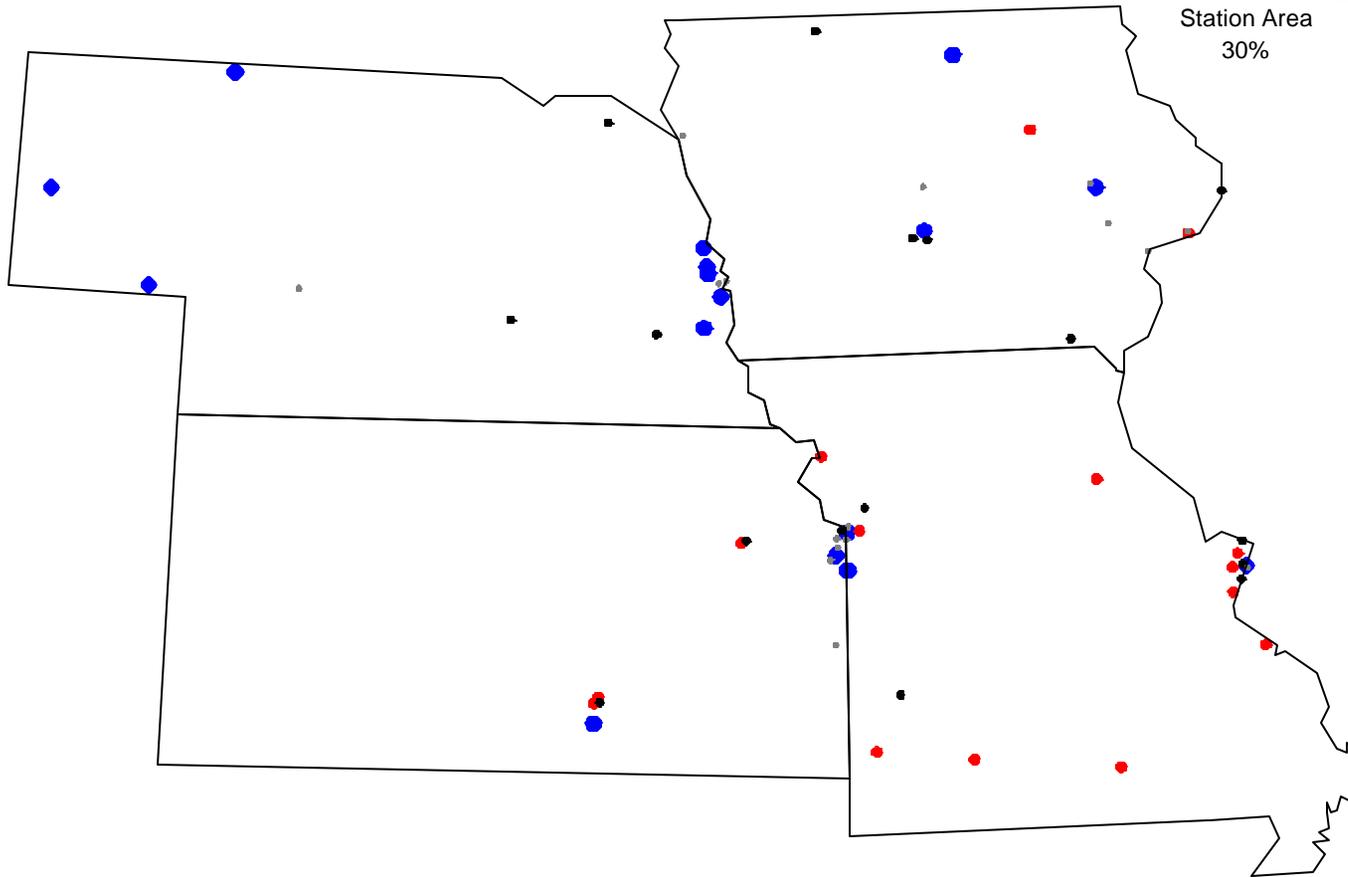
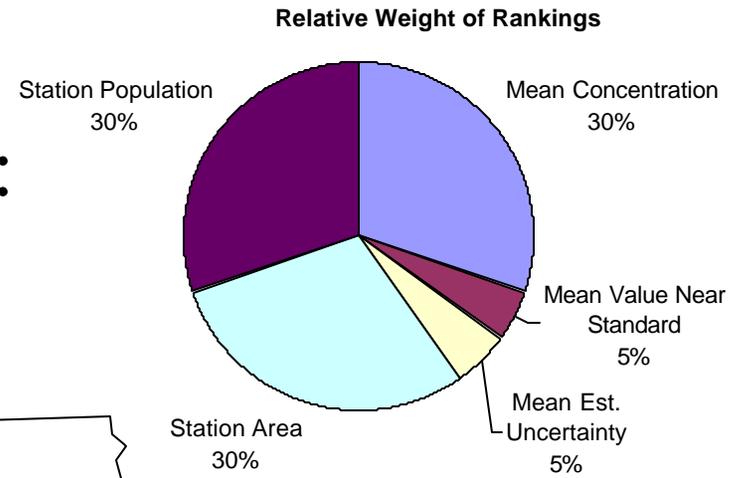
# Region 7

## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



# Region 7

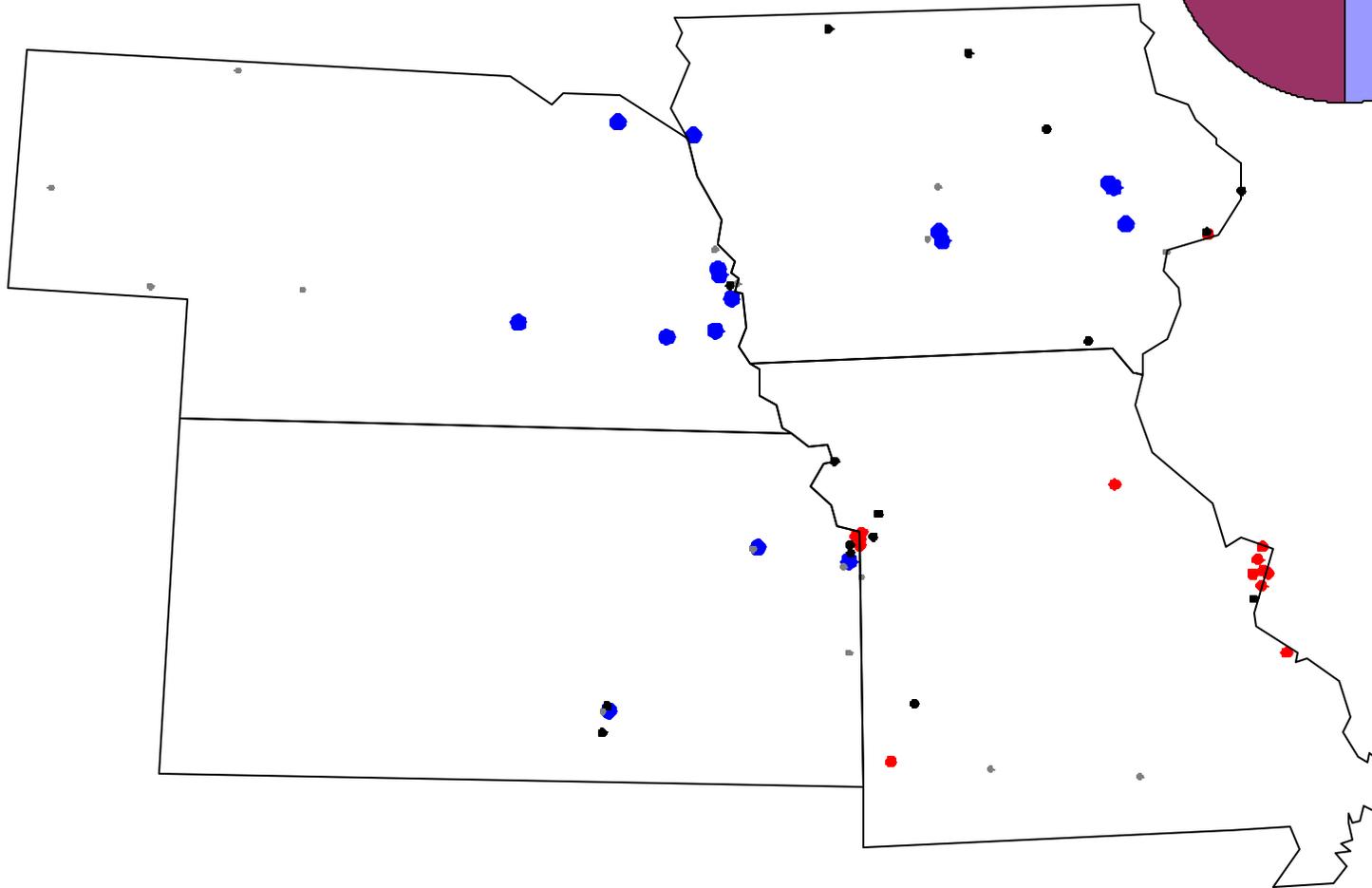
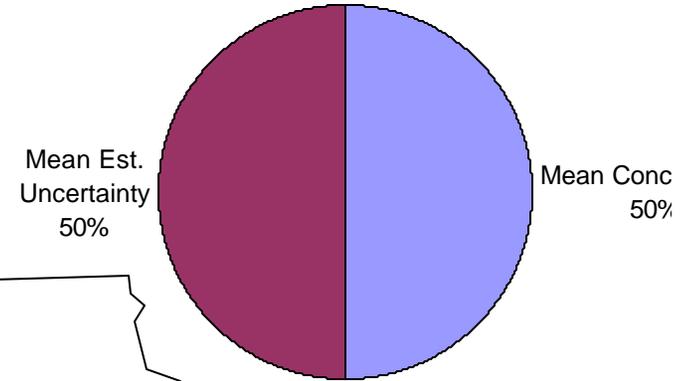
## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



# Region 7

PM25 Aggregate Ranking Map:  
Red=High Value, Blue=Low Value

Relative Weight of Rankings

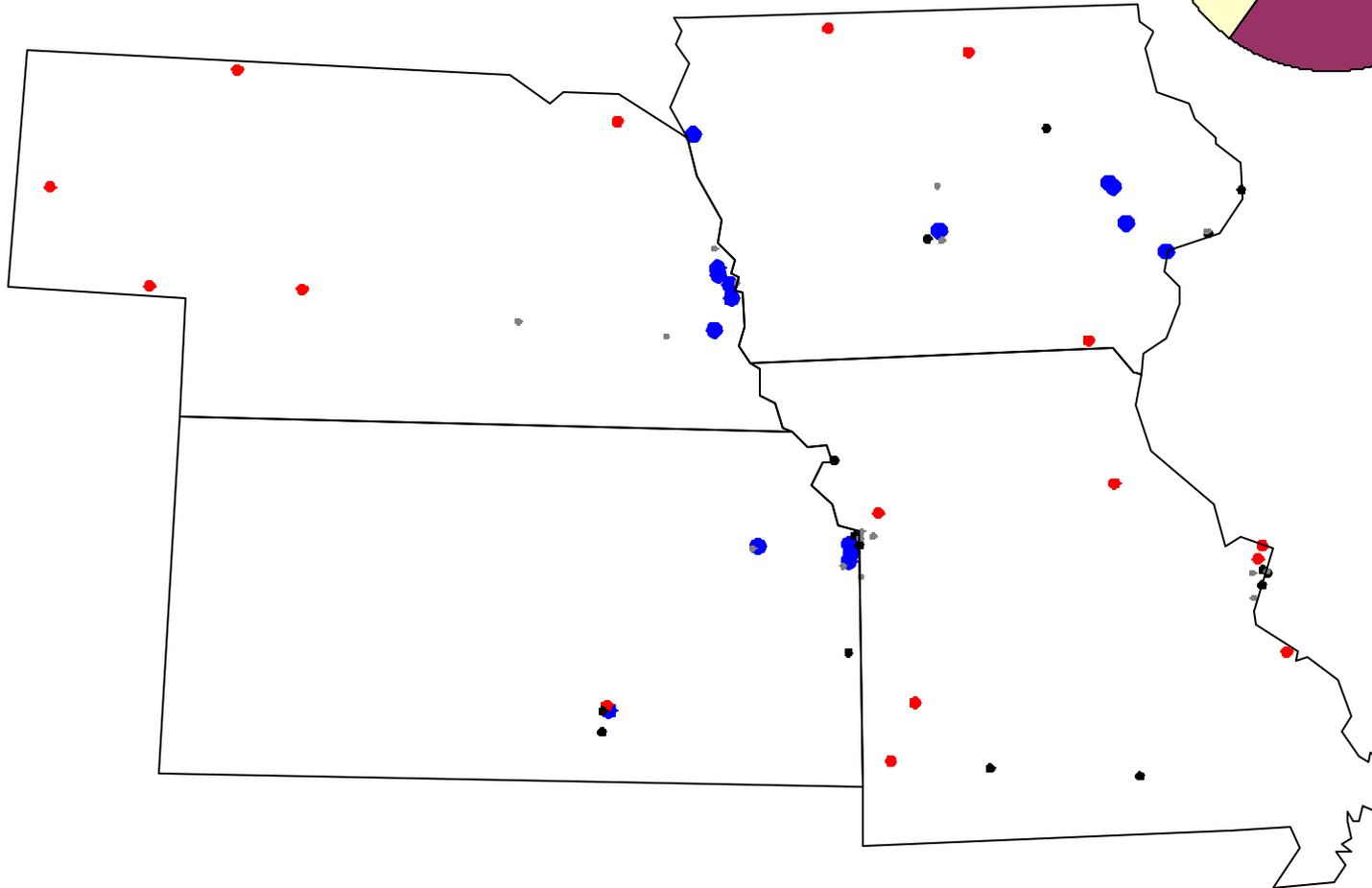
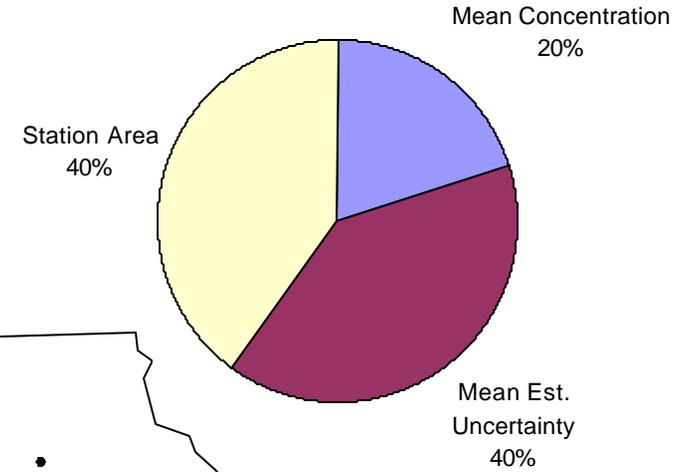


PM25 Aggregate Ranking Map C: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 7

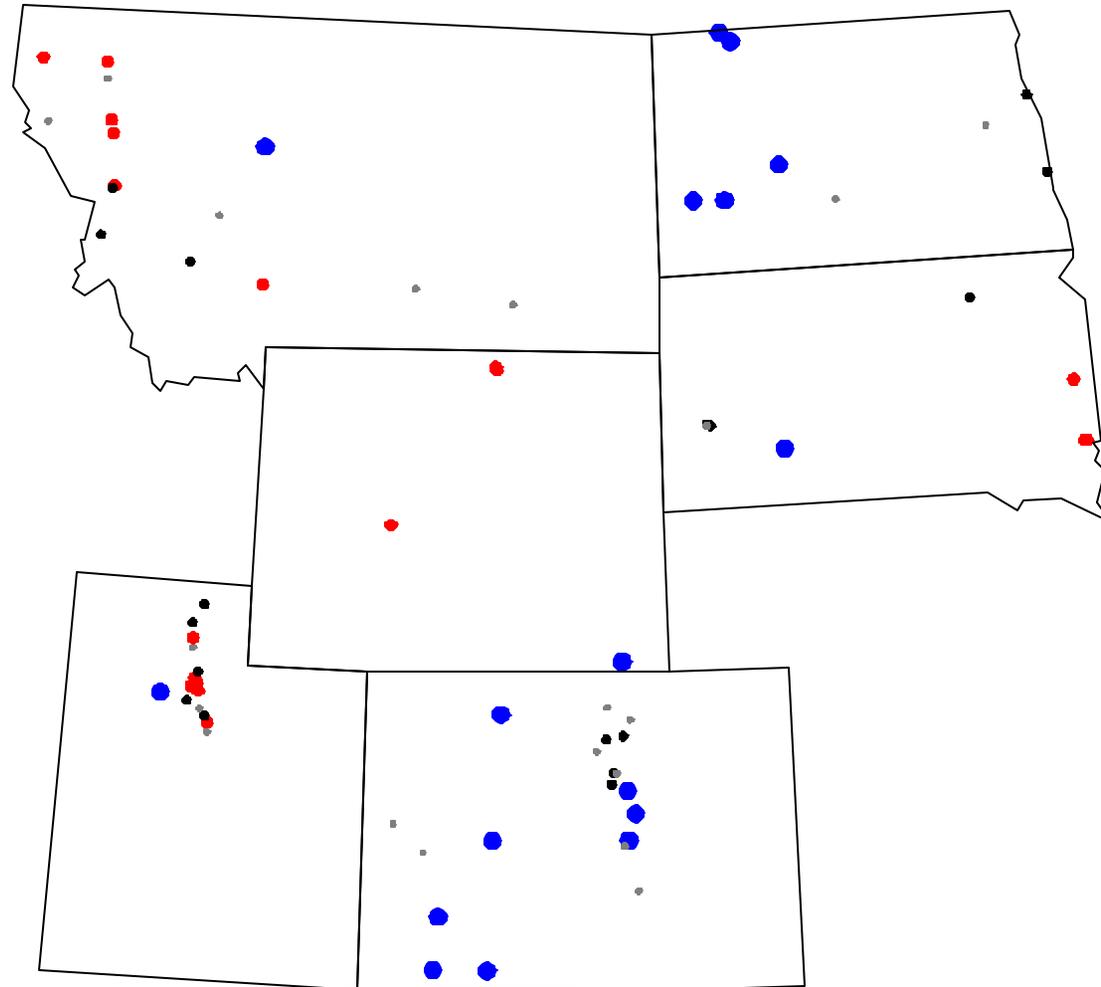
PM25 Aggregate Ranking Map:  
Red=High Value, Blue=Low Value

Relative Weight of Rankings



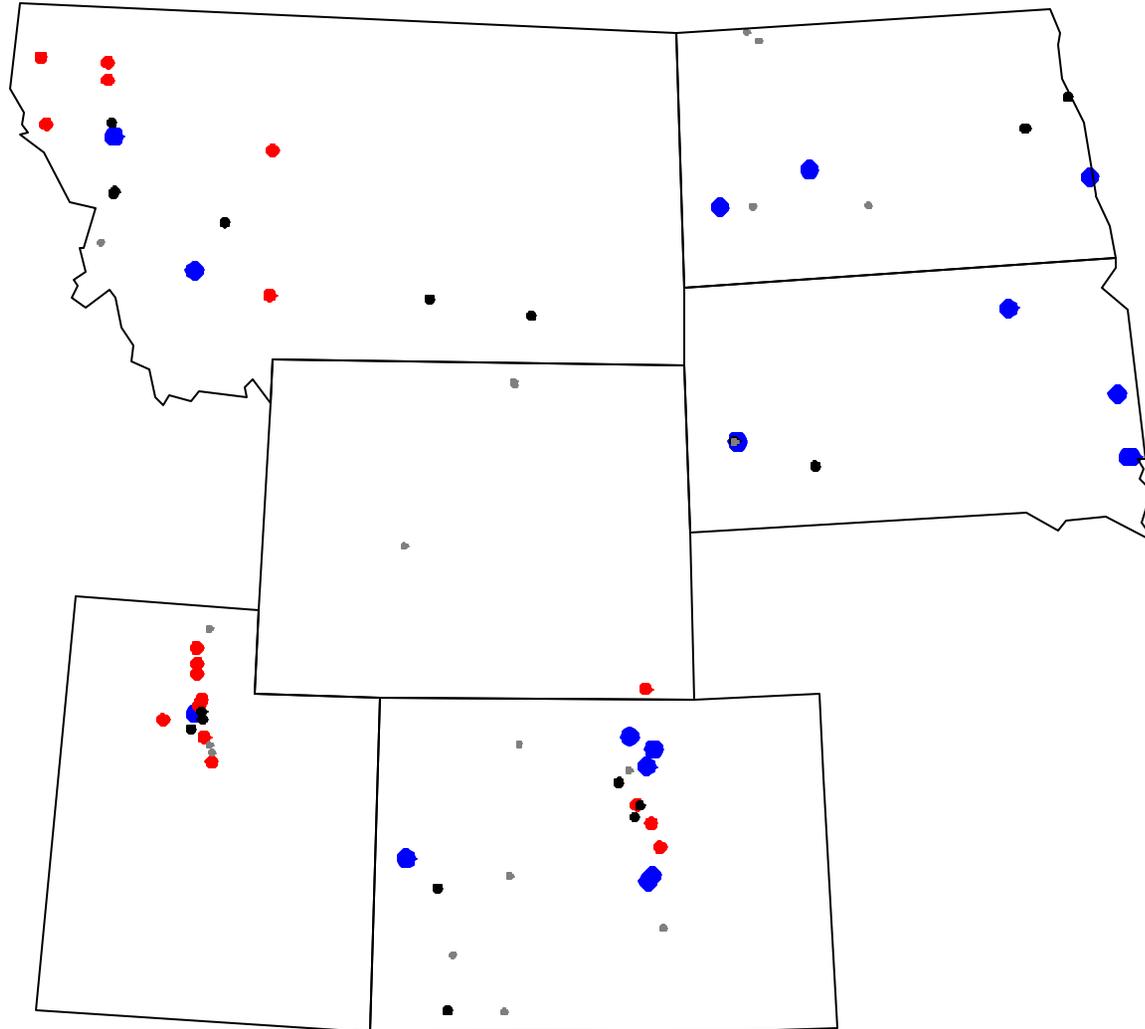
PM25 Aggregate Ranking Map D: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

# Region 8 PM25 Annual Mean: Red=Large Value, Blue=Small Value



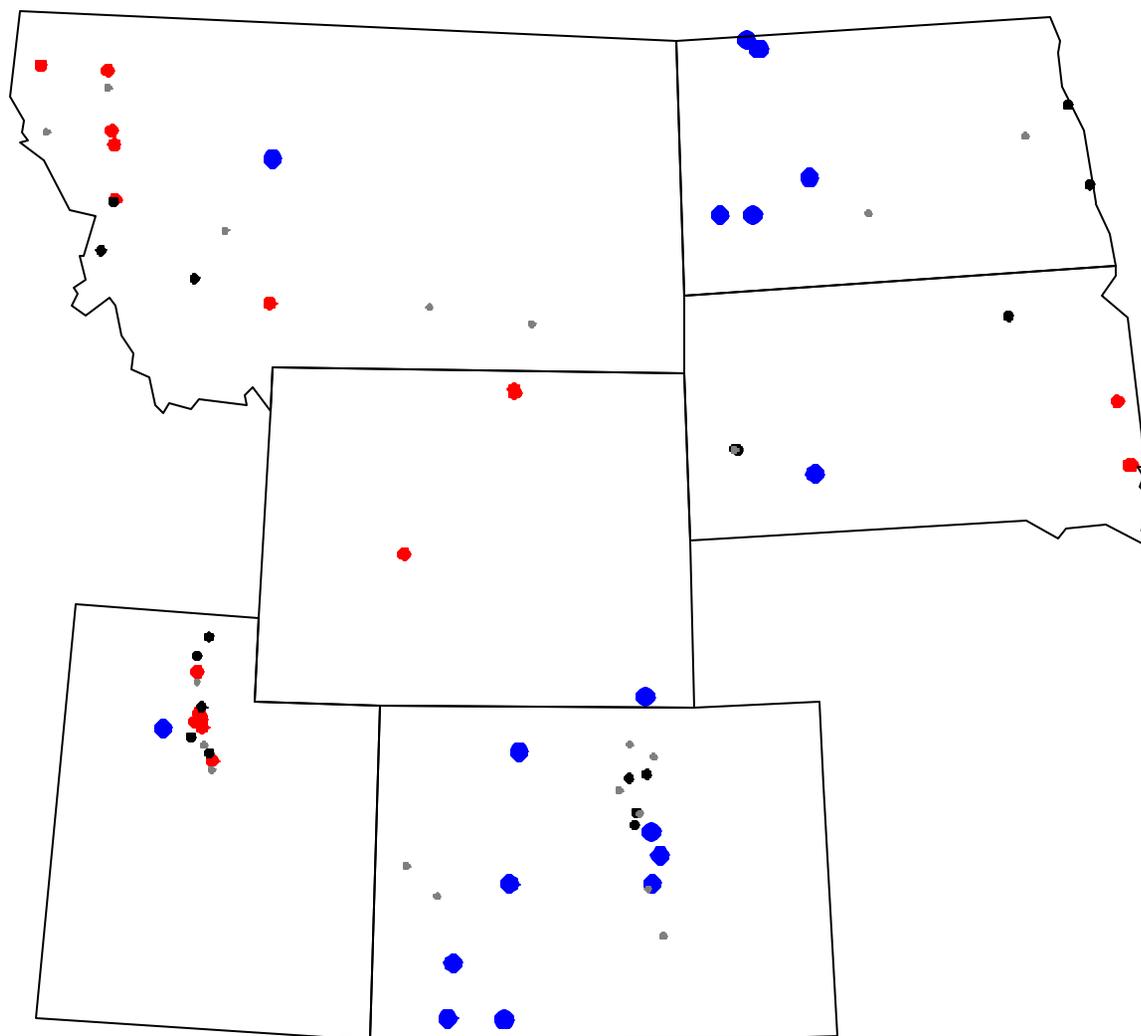
PM25 Annual Mean: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 8 Predicting PM25 Annual Mean: Red=High Uncertainty, Blue=Low Uncertainty



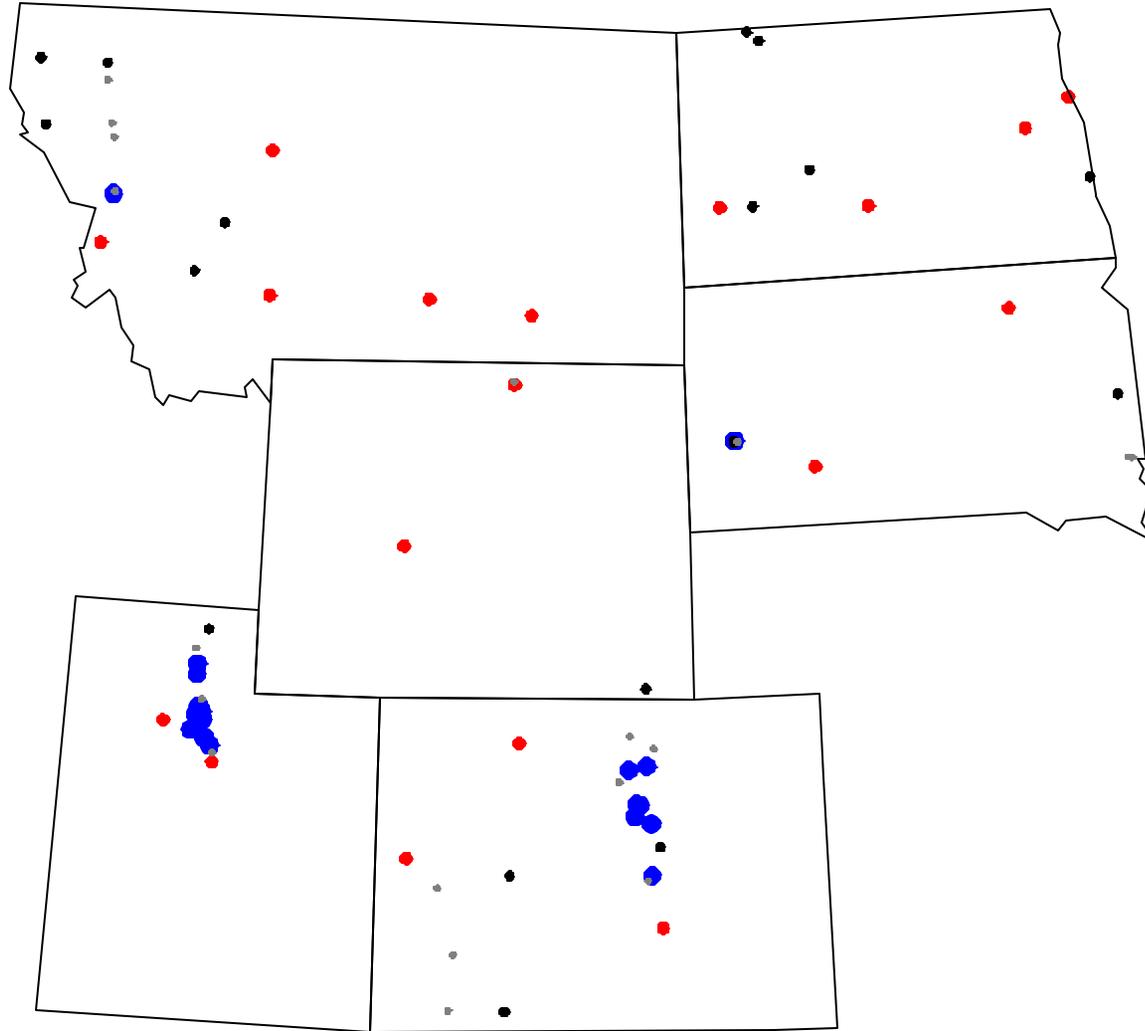
Predicting PM25 Annual Mean: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 8 Deviation from PM25 Annual Mean NAAQS: Red=Small Deviation, Blue=Large Deviation



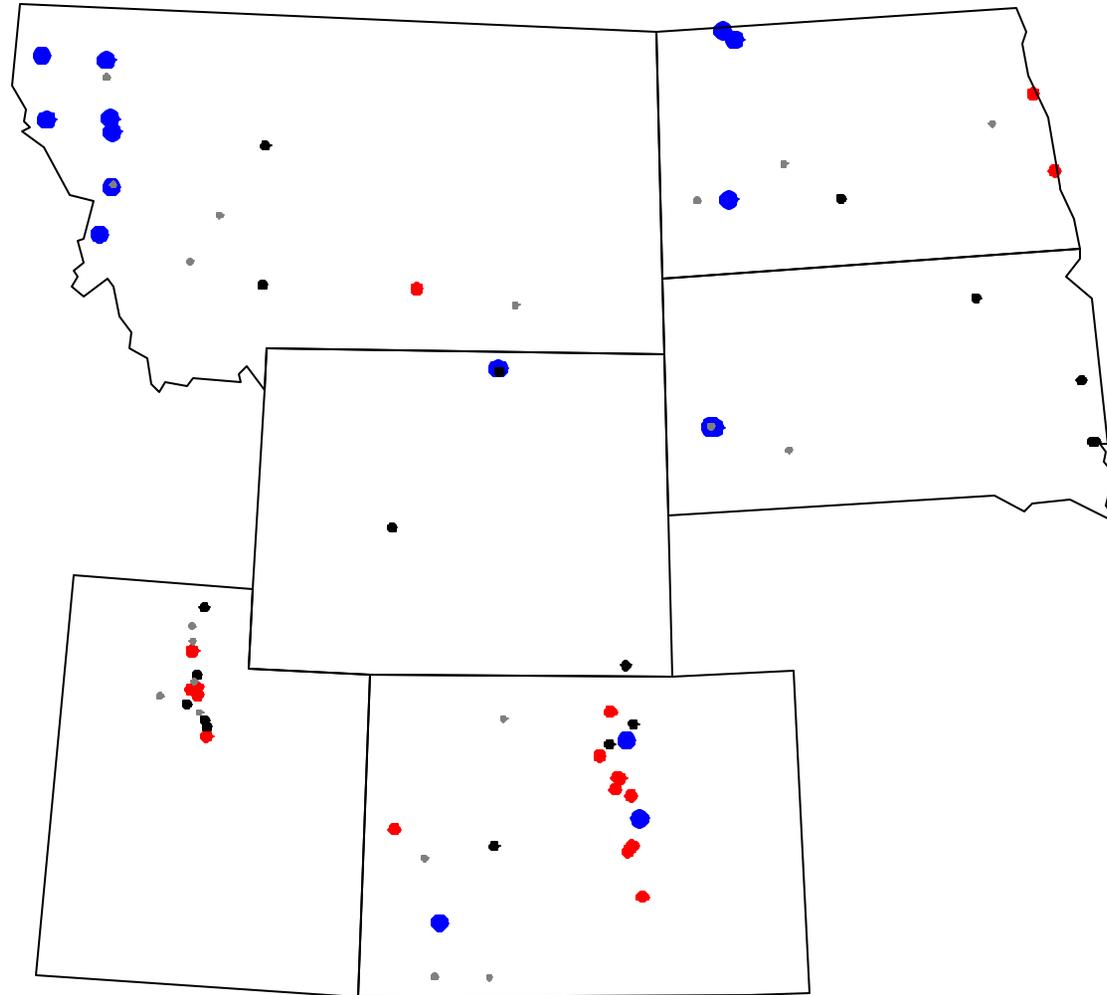
Deviation from PM25 Annual Mean NAAQS: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 8 Area for PM25 Monitors: Red=Large Area, Blue=Small Area



Area for PM25 Monitors: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 8 Population for PM25 Monitors: Red=Large Population, Blue=Small Population



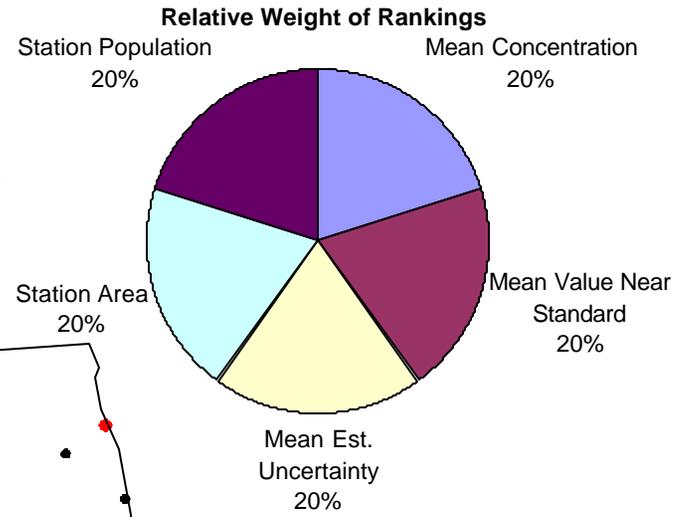
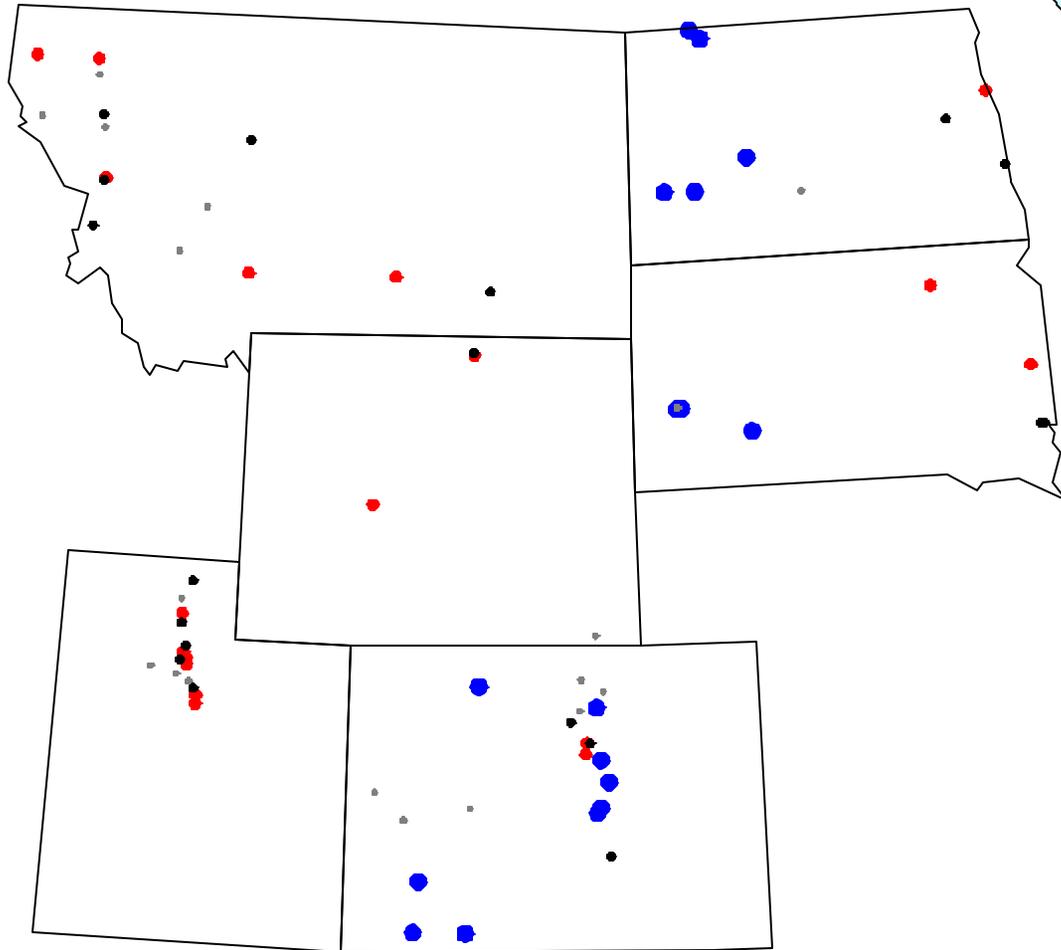
Population for PM25 Monitors: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# PM25 Quartiles

	Region 8 PM25					
	pm25mean	% of NAAQS	pm25error	dif_NAAQS_mean	area	population
Q1	9.6	64.0%	1.6276	5.4	32353.5	149218
Q2	8.2	54.7%	0.9755	6.8	11468.82	85550
Q3	6.9	46.0%	0.5129	8.1	5320.945	43260

# Region 8

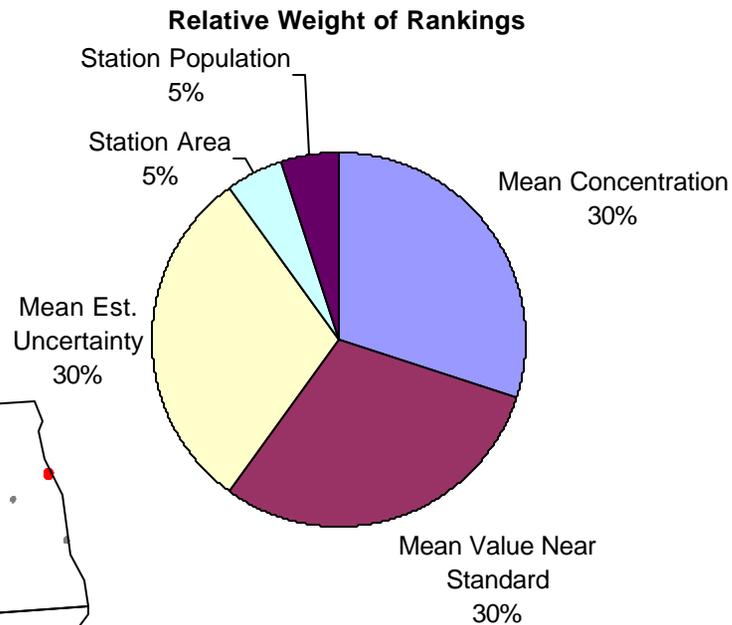
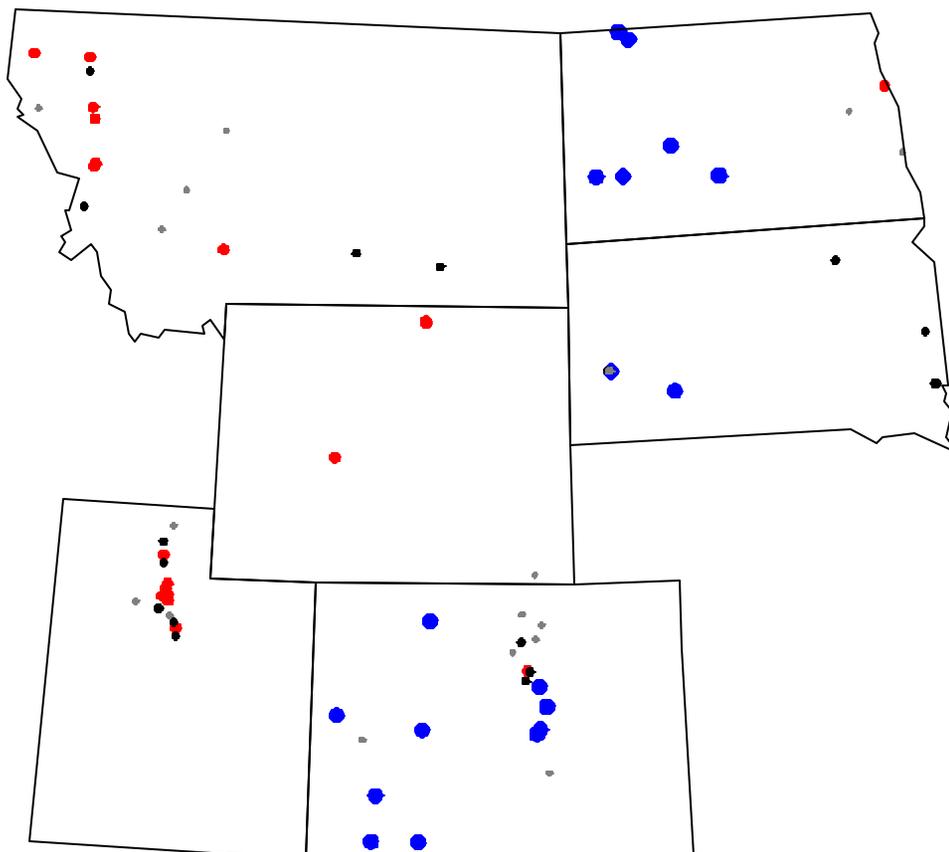
## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



PM25 Aggregate Ranking Map: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

# Region 8

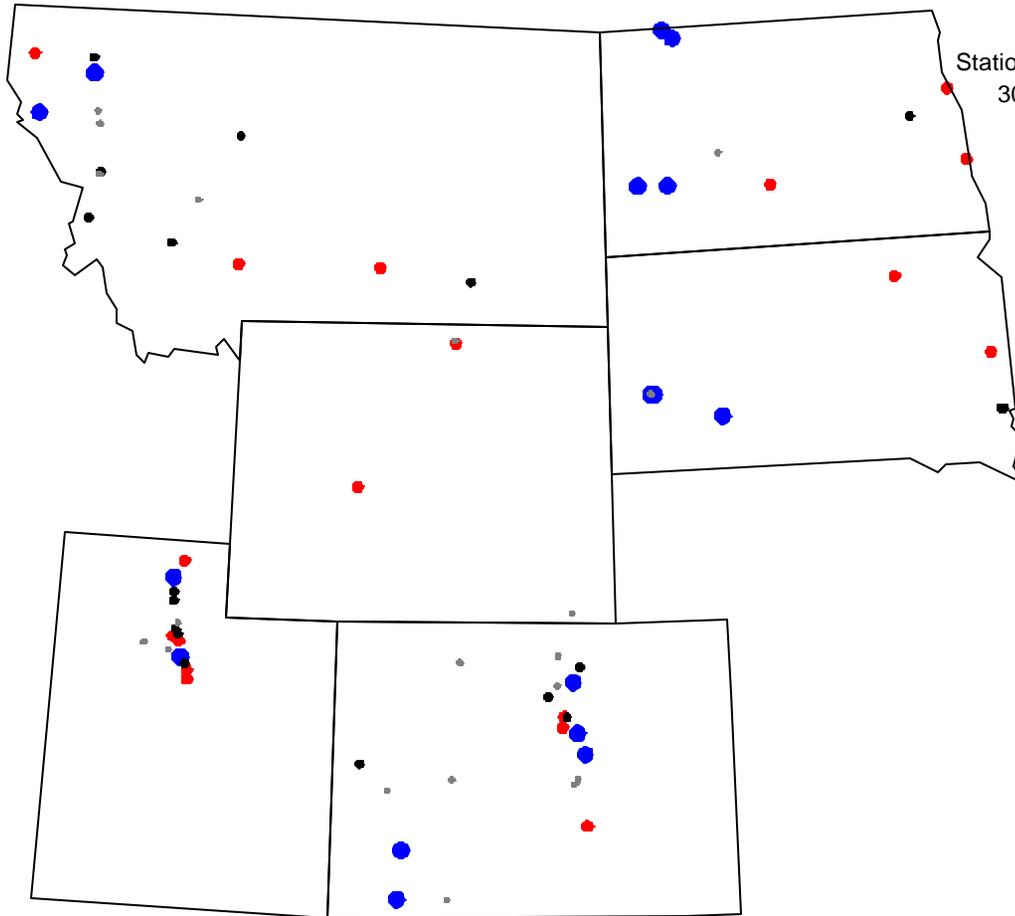
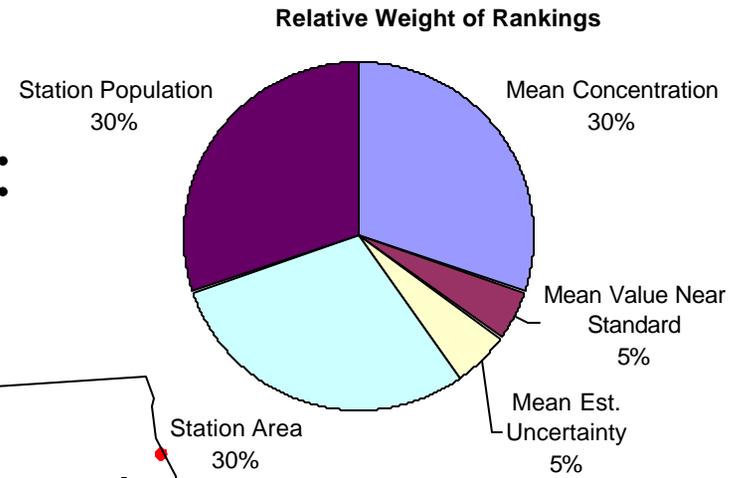
## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



PM25 Aggregate Ranking Map A: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 8

## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



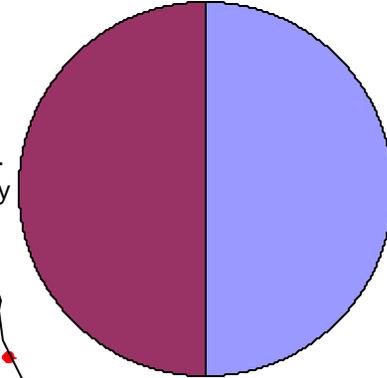
PM25 Aggregate Ranking Map B: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

# Region 8

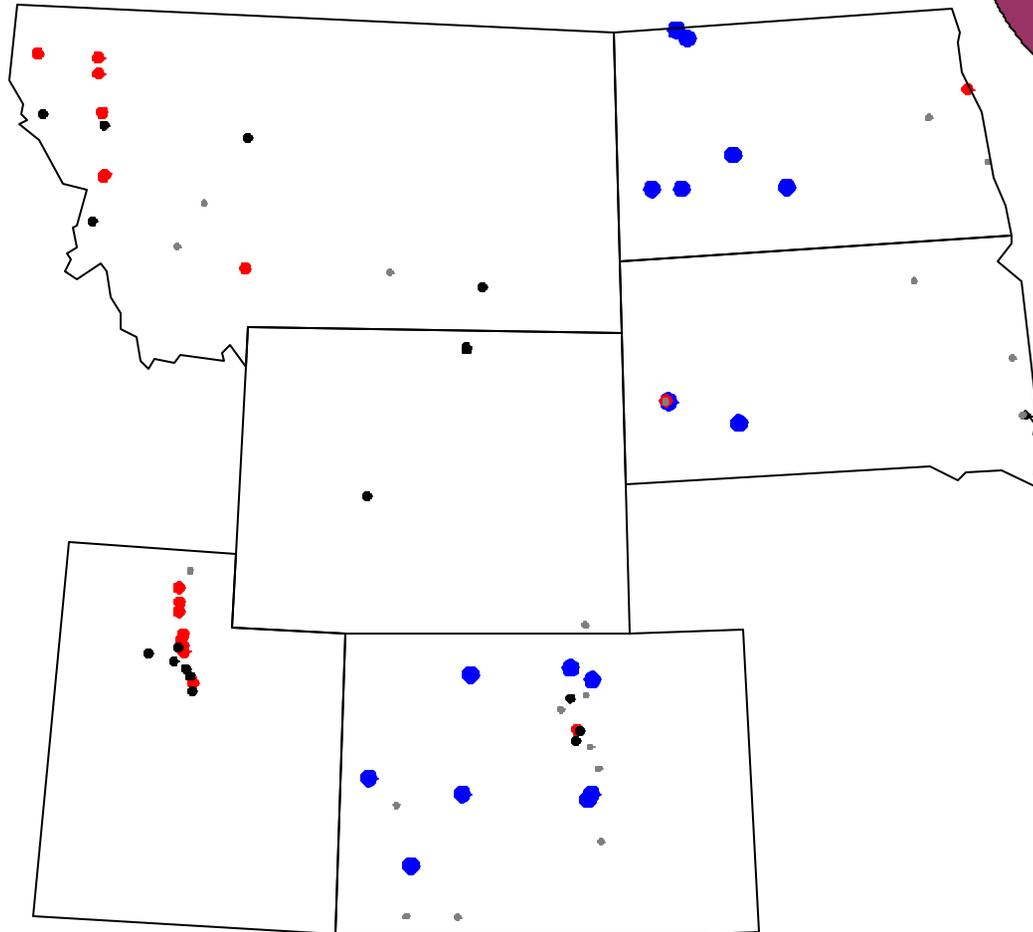
## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value

Relative Weight of Rankings

Mean Est.  
Uncertainty  
50%



Mean  
Concentration  
50%

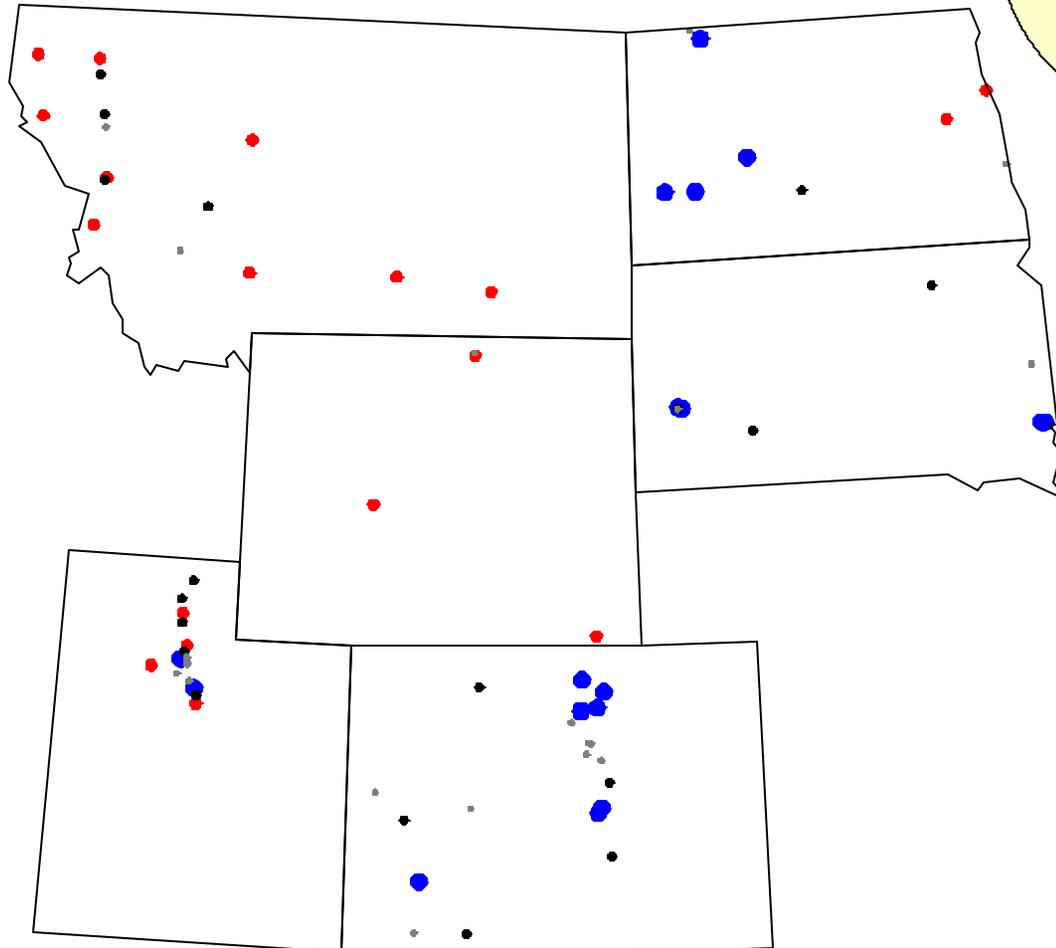
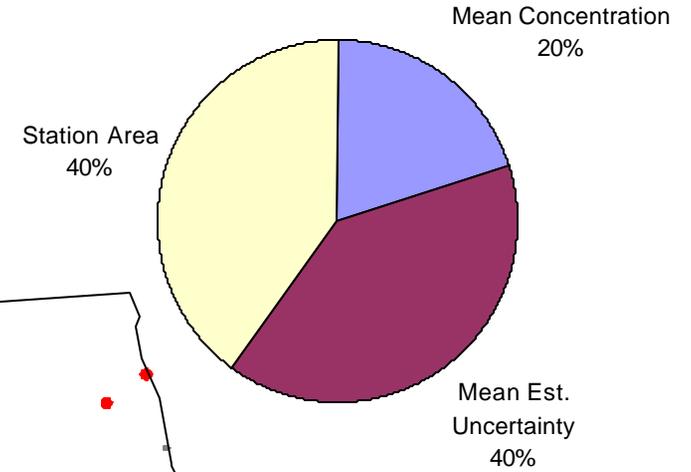


PM25 Aggregate Ranking Map C: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 8

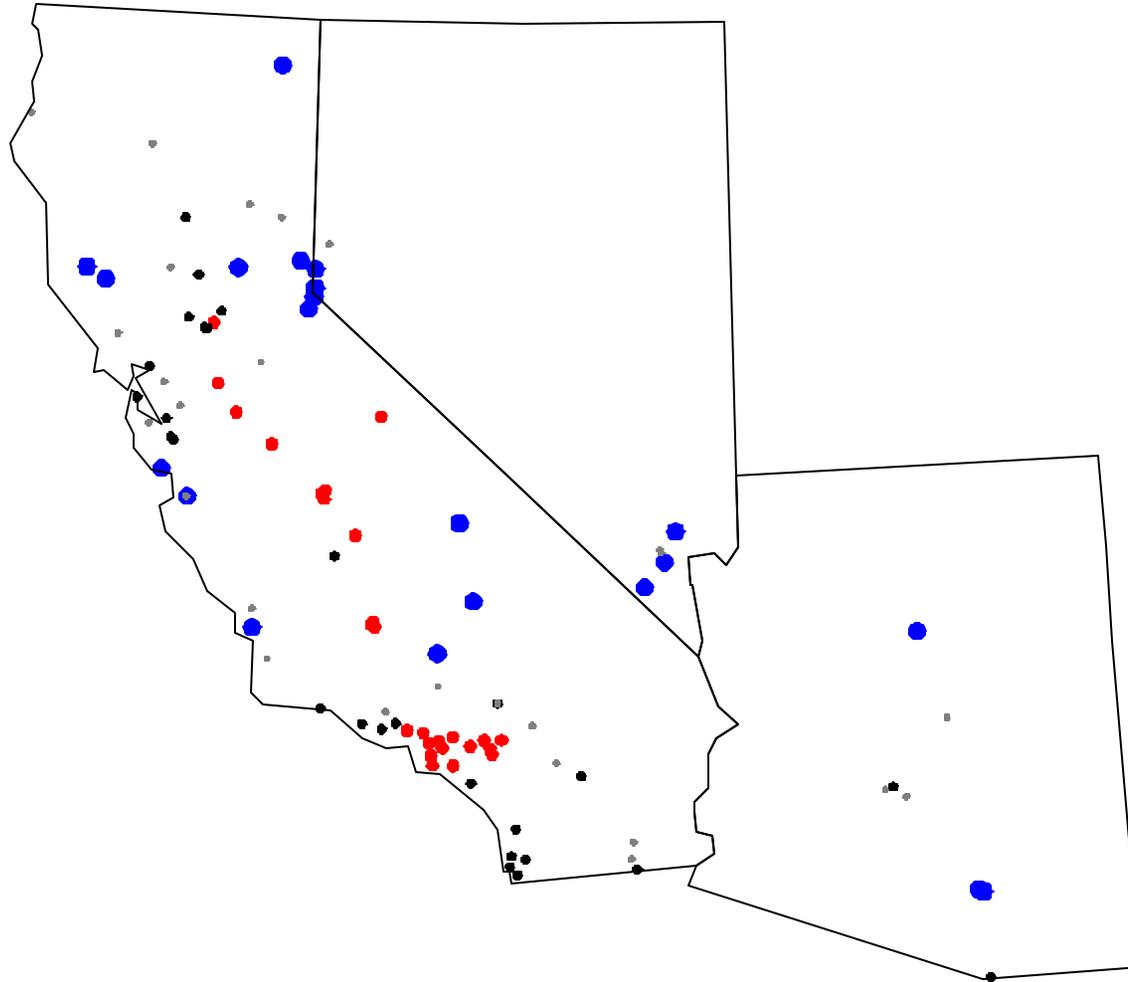
## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value

Relative Weight of Rankings



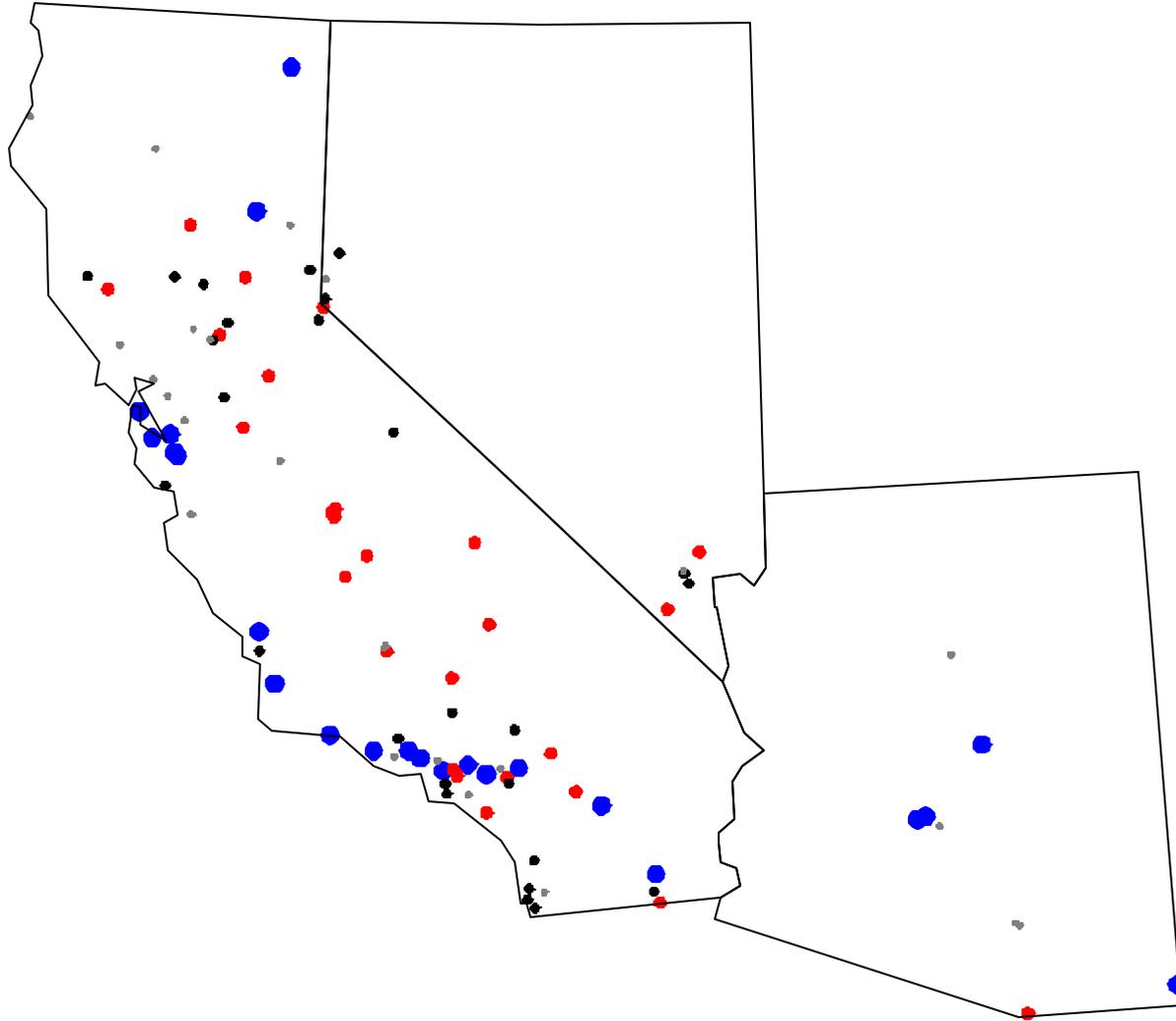
PM25 Aggregate Ranking Map D: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

# Region 9 PM25 Annual Mean: Red=Large Value, Blue=Small Value



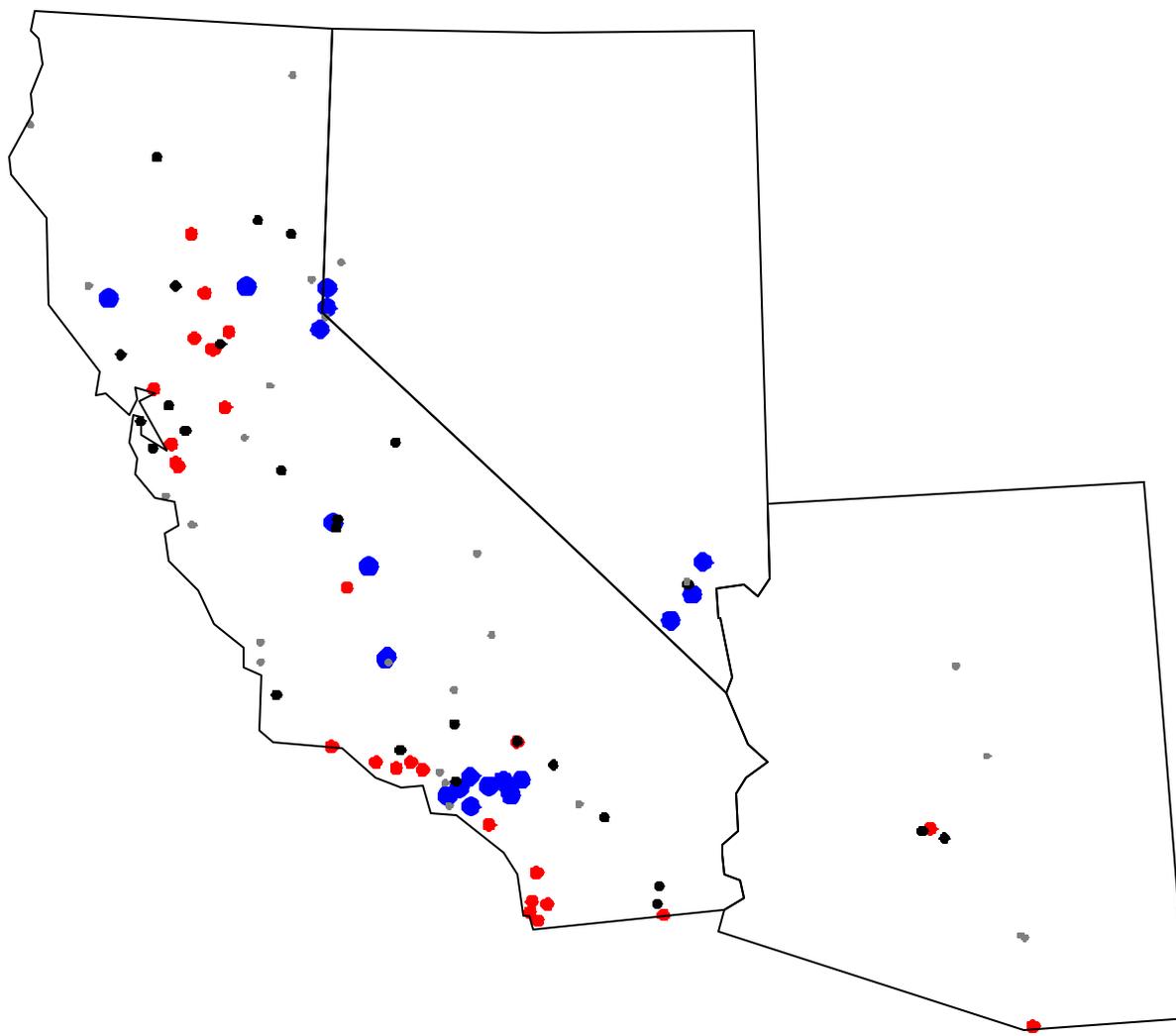
PM25 Annual Mean: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 9 Predicting PM25 Annual Mean: Red=High Uncertainty, Blue=Low Uncertainty



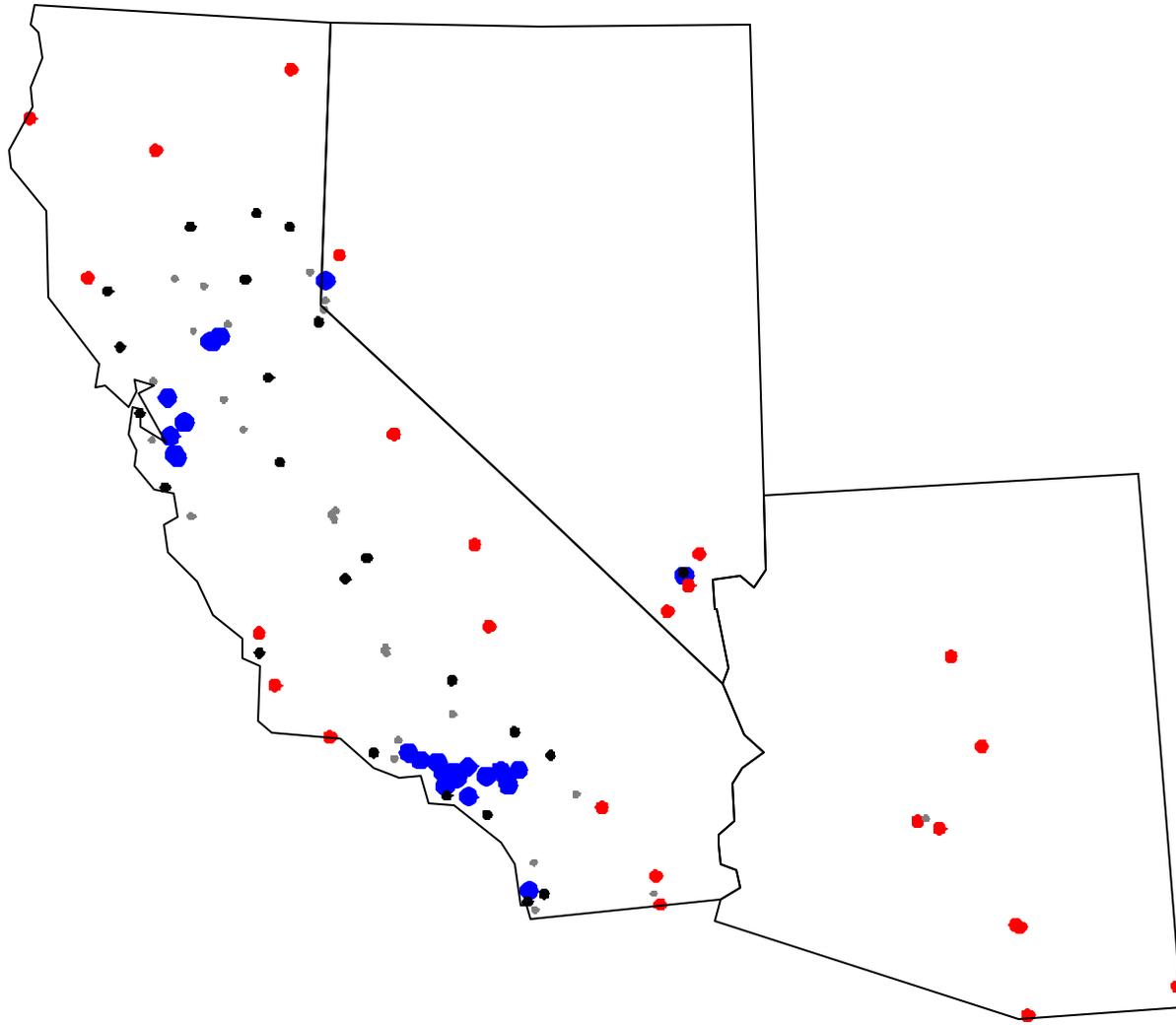
Predicting PM25 Annual Mean: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 9 Deviation from PM25 Annual Mean NAAQS: Red=Small Deviation, Blue=Large Deviation



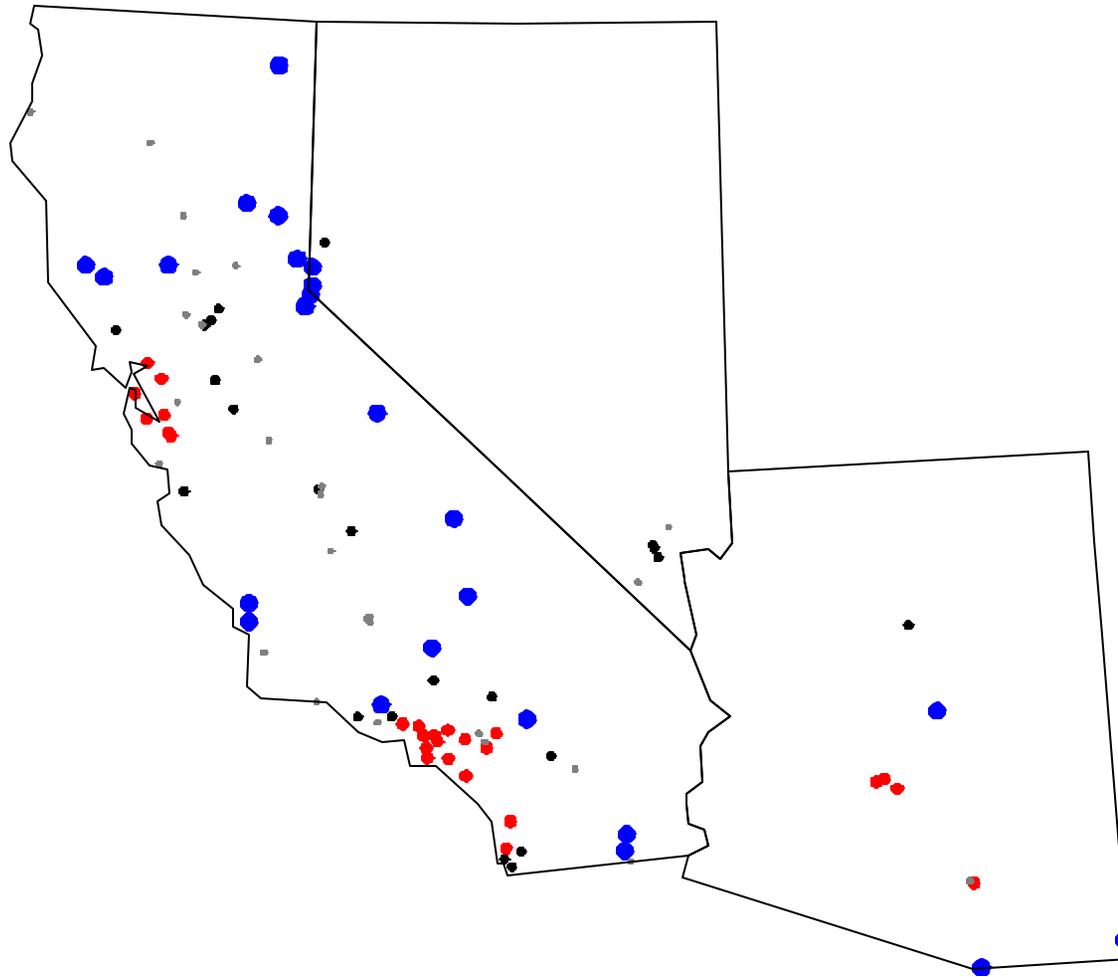
Deviation from PM25 Annual Mean NAAQS: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 9 Area for PM25 Monitors: Red=Large Area, Blue=Small Area



Area for PM25 Monitors: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 9 Population for PM25 Monitors: Red=Large Population, Blue=Small Population



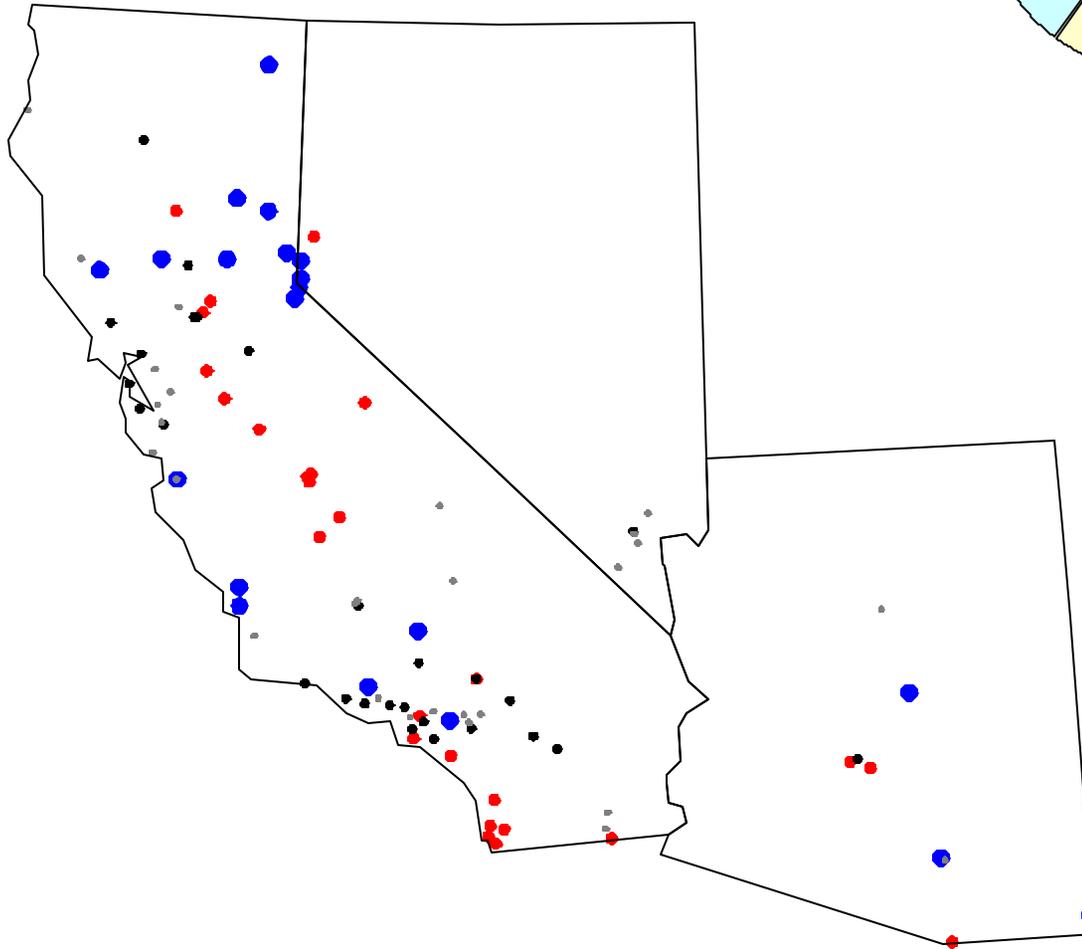
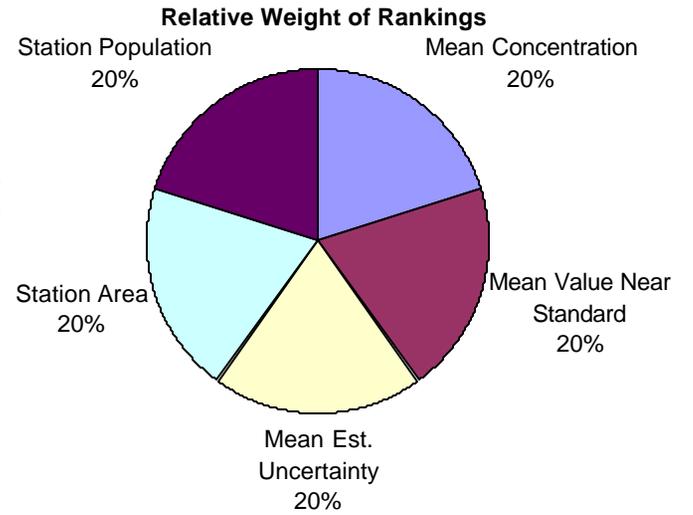
Population for PM25 Monitors: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# PM25 Quartiles

	Region 9 PM25					
	pm25mean	% of NAAQS	pm25error	dif_NAAQS_mean	area	population
Q1	16.9	112.7%	3.5168	2.8	10624.5	535662
Q2	11.9	79.3%	1.8208	4.9	4717.086	247386
Q3	9	60.0%	0.7894	7.5	2197.834	127997

# Region 9

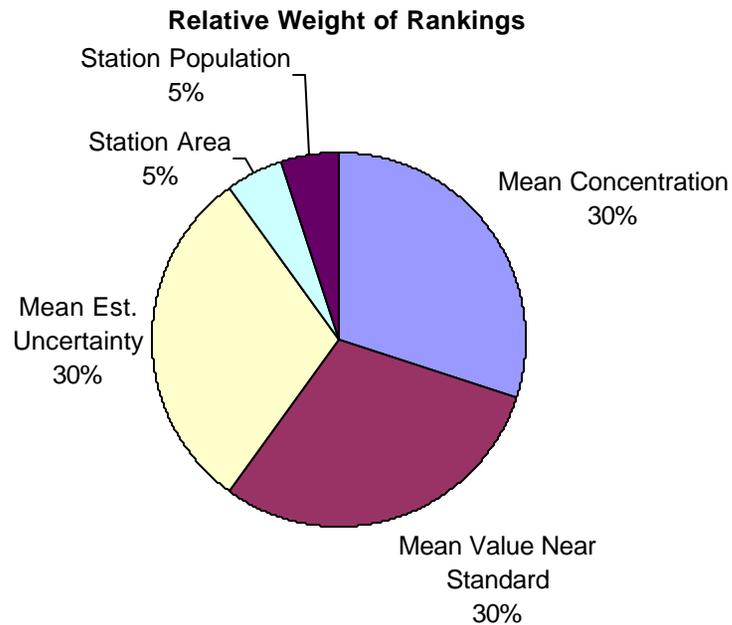
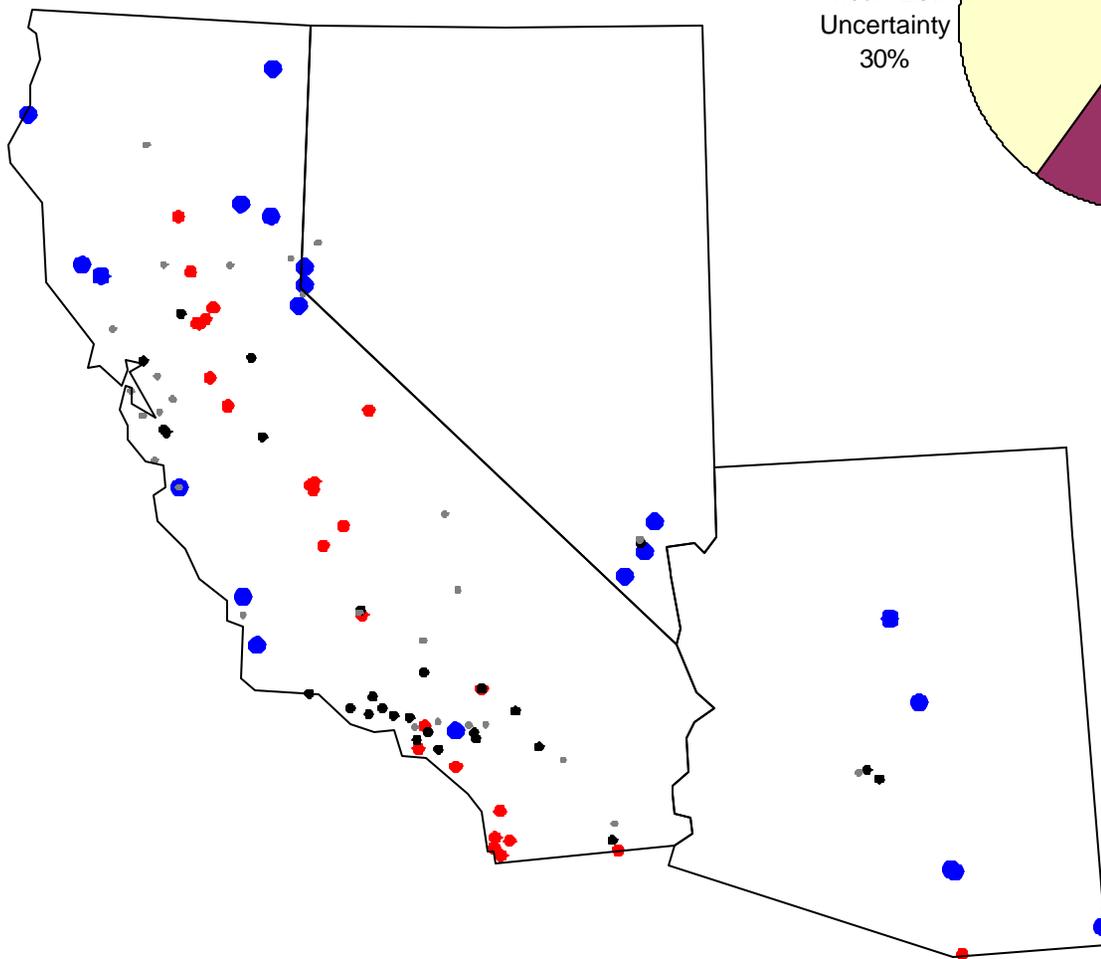
## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



PM25 Aggregate Ranking Map: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

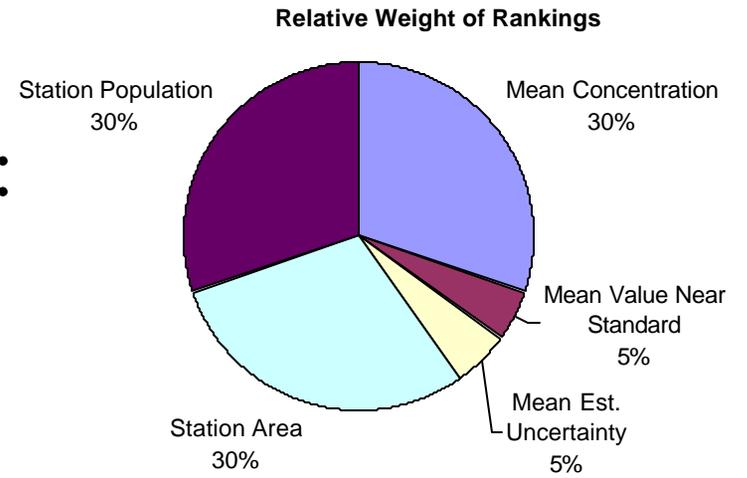
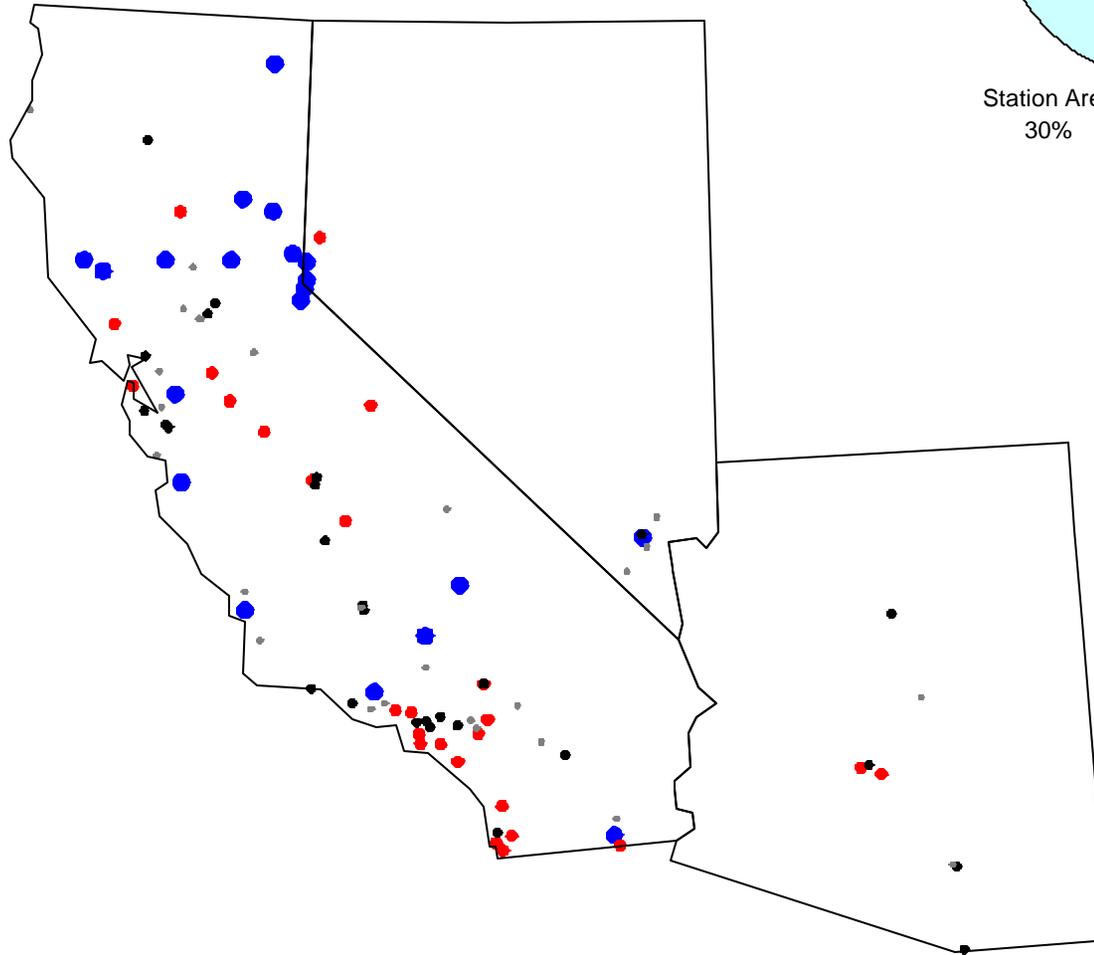
# Region 9

## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



# Region 9

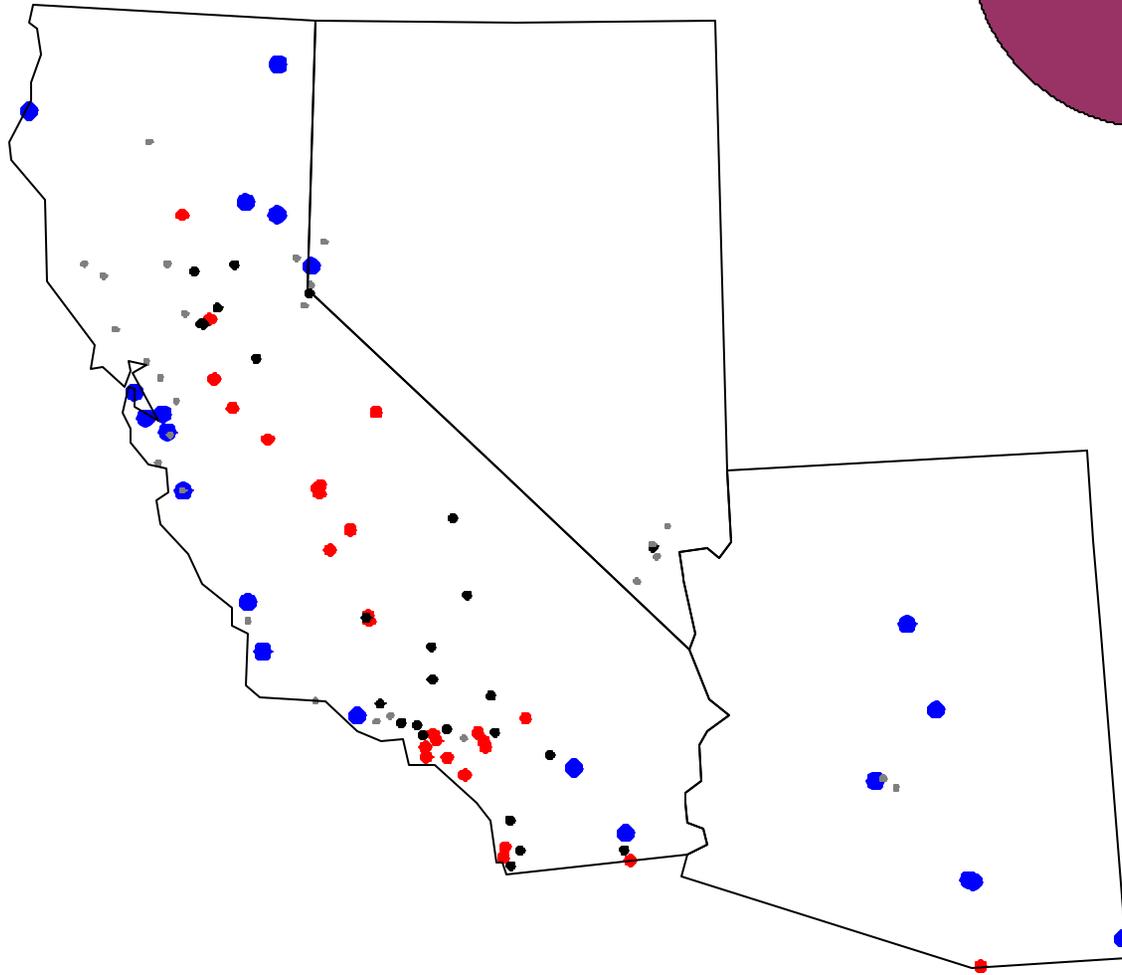
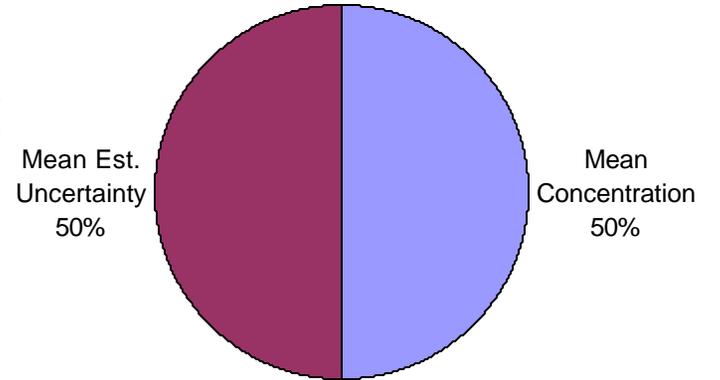
## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



# Region 9

PM25 Aggregate Ranking Map:  
Red=High Value, Blue=Low Value

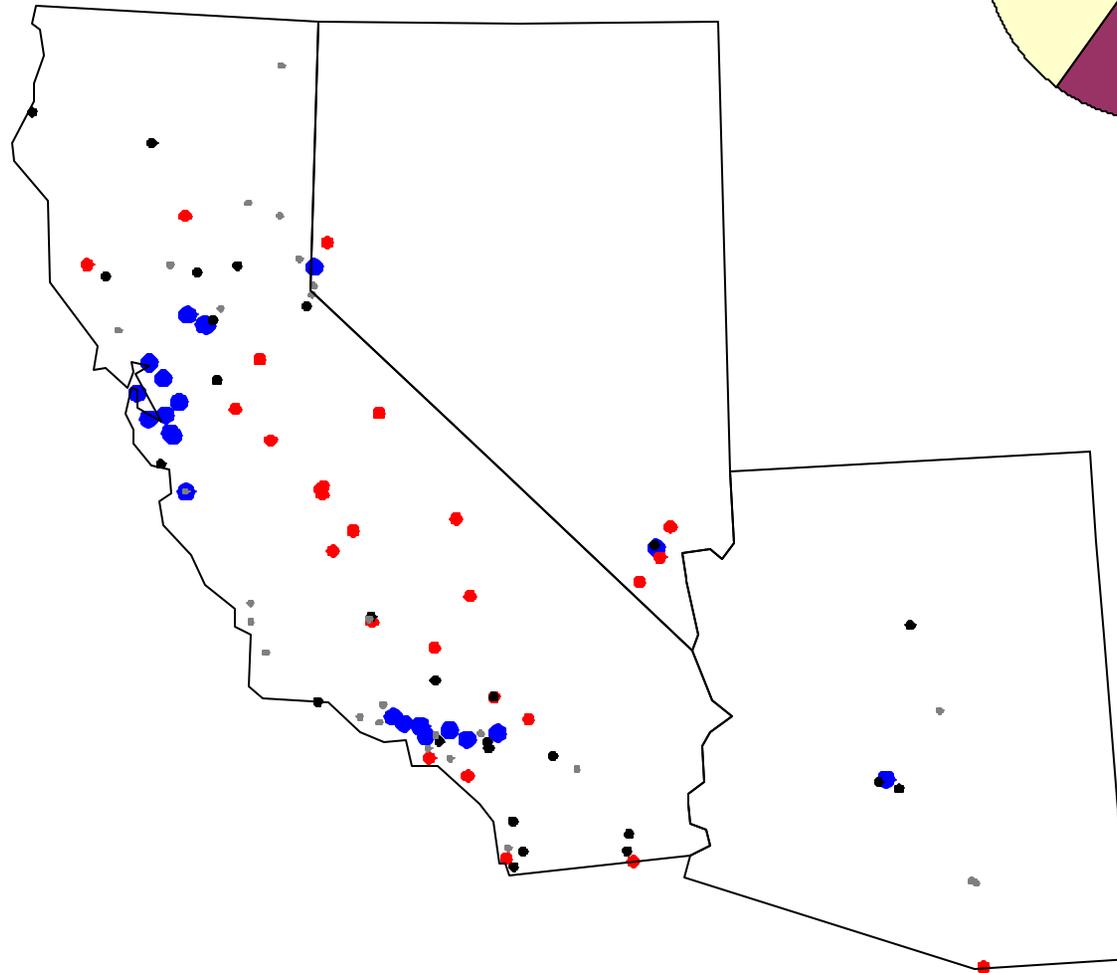
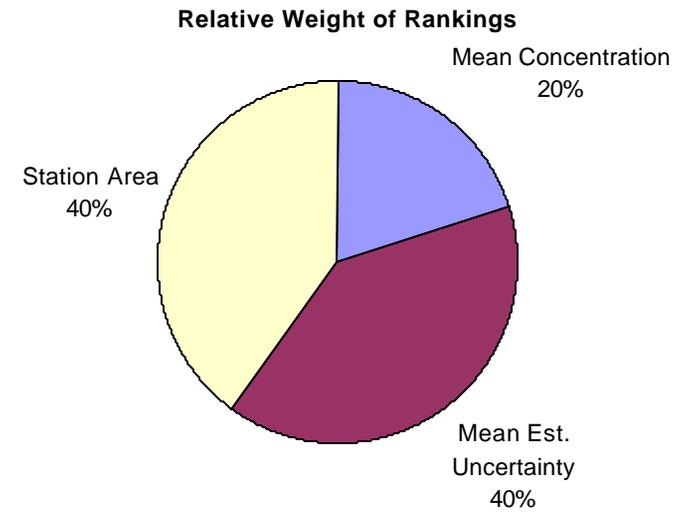
Relative Weight of Rankings



PM25 Aggregate Ranking Map C: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

# Region 9

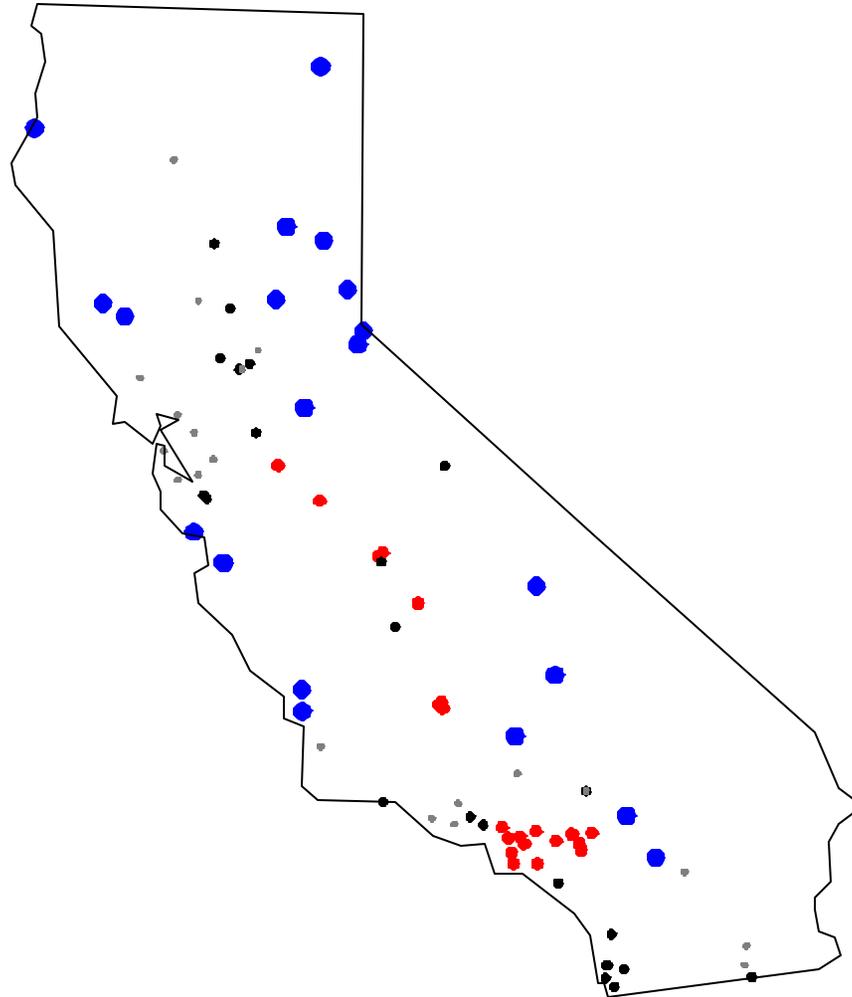
## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



PM25 Aggregate Ranking Map D: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

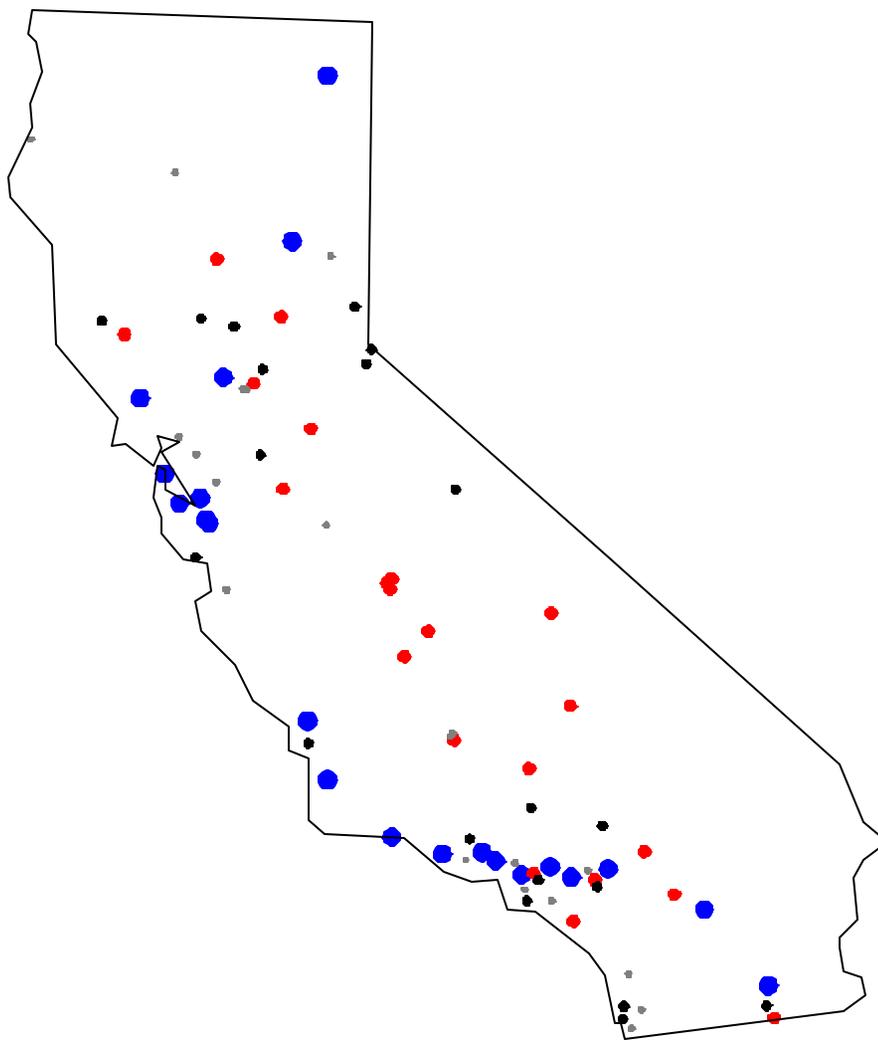
# Region 9 (CA) PM25 Annual Mean:

Red=Large Value, Blue=Small Value



PM25 Annual Mean: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

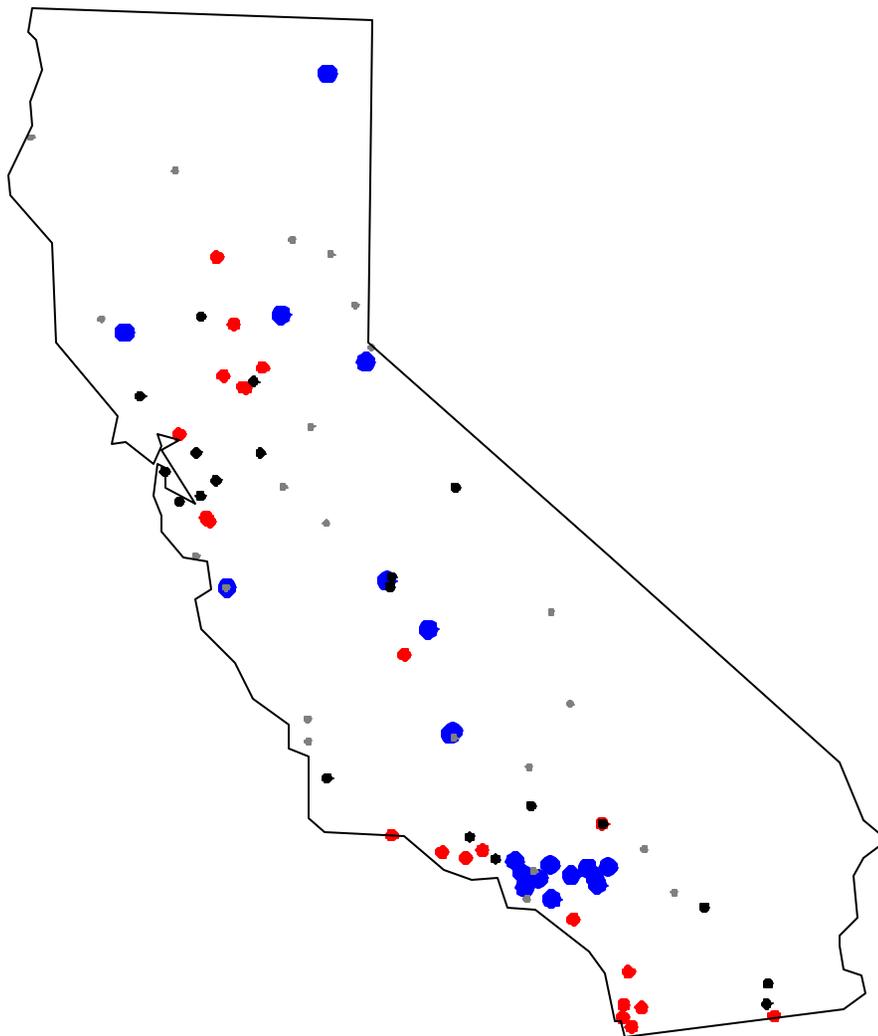
# Region 9 (CA) Predicting PM25 Annual Mean: Red=High Uncertainty, Blue=Low Uncertainty



Predicting PM25 Annual Mean: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

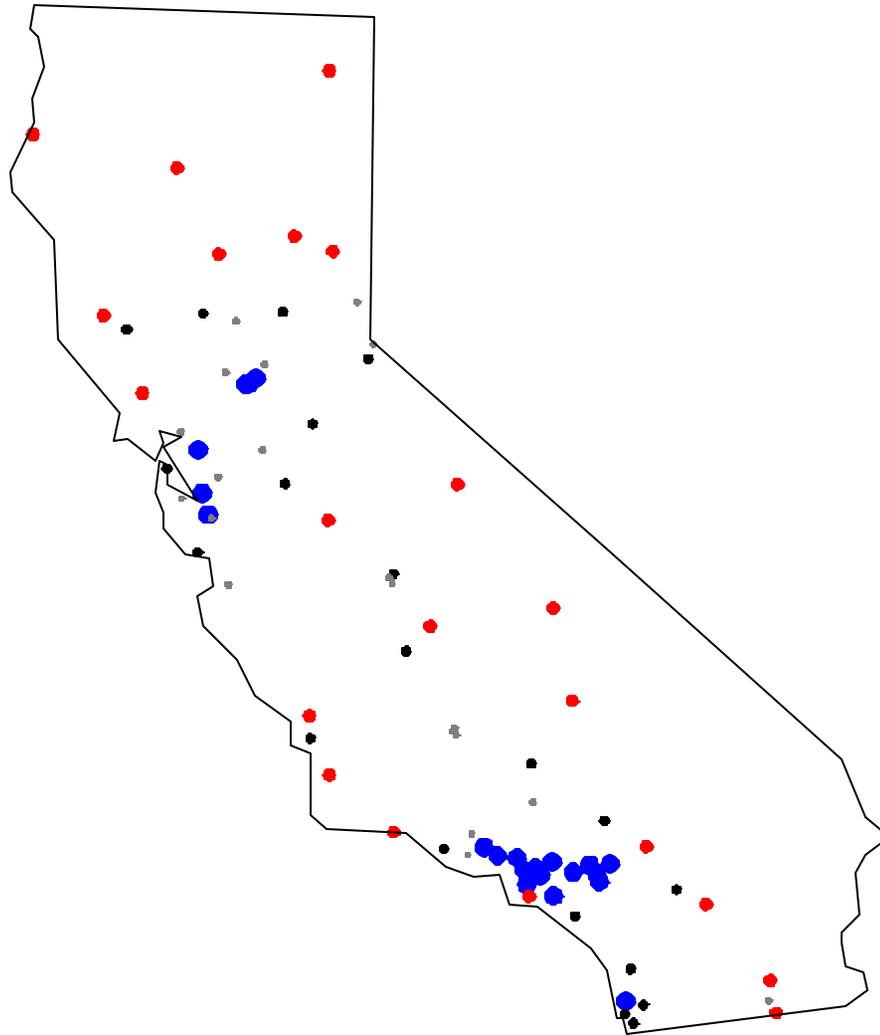
# Region 9 (CA) Deviation from PM25 Annual Mean NAAQS

Red=Small Deviation, Blue=Large Deviation



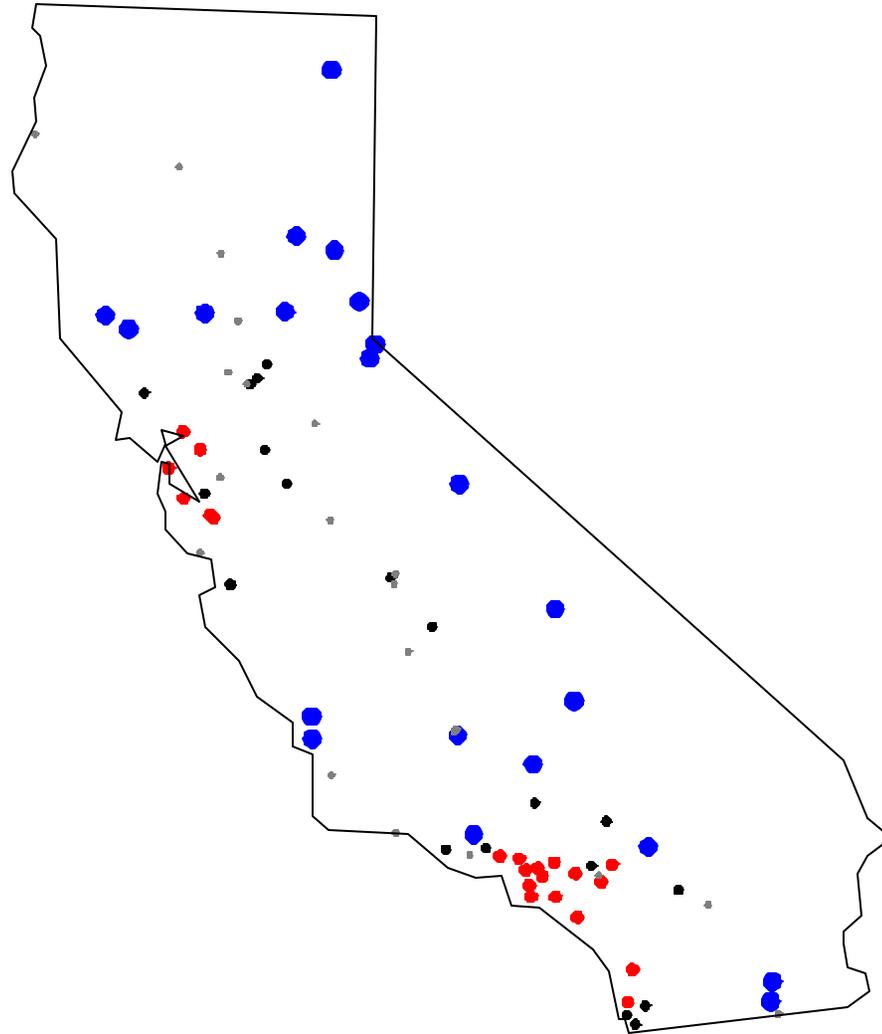
Deviation from PM25 Annual Mean NAAQS: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 9 (CA) Area for PM25 Monitors: Red=Large Area, Blue=Small Area



Area for PM25 Monitors: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 9 (CA) Population for PM25 Monitors: Red=Large Population, Blue=Small Population



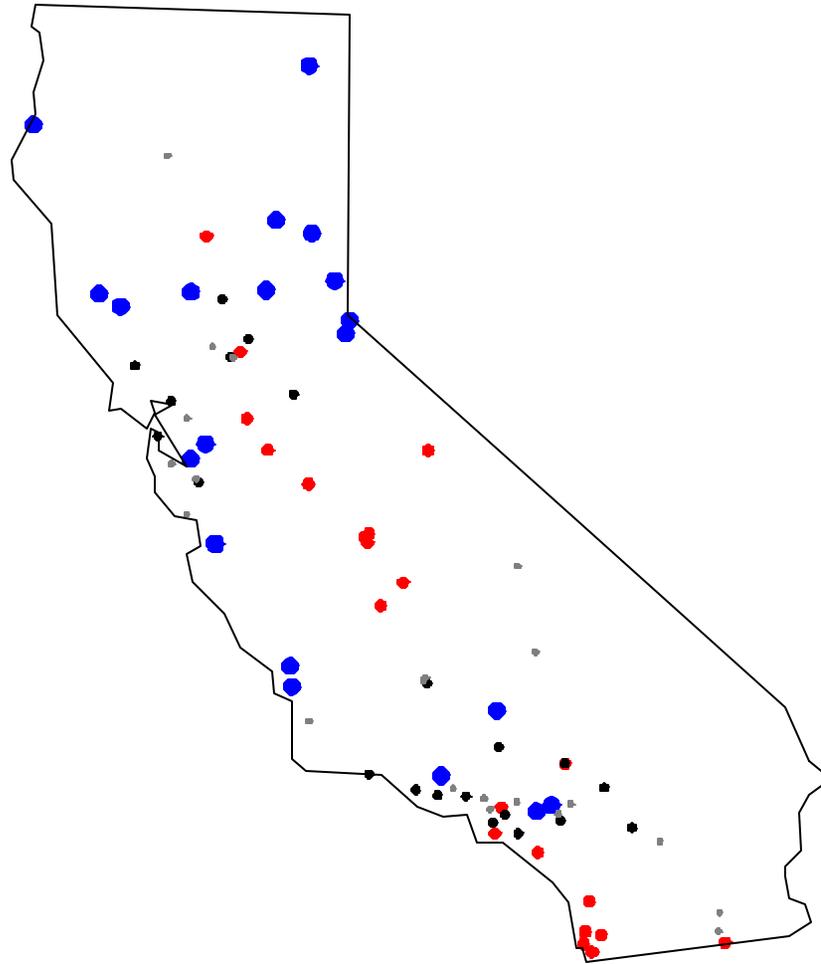
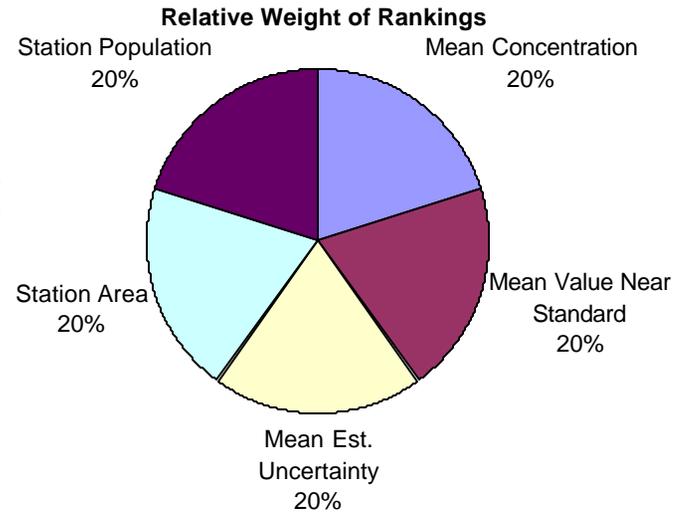
Population for PM25 Monitors: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# PM25 Quartiles

	<b>Region 9 (CA) PM25</b>					
	pm25mean	% of NAAQS	pm25error	dif_NAAQS_mean	area	population
<b>Q1</b>	18.05	120.3%	3.8893	2.4	7318.803	547011
<b>Q2</b>	13	86.7%	1.9009	4.5	4414.31	240652
<b>Q3</b>	10.35	69.0%	0.9085	7	1897.067	135481

# Region 9 (CA)

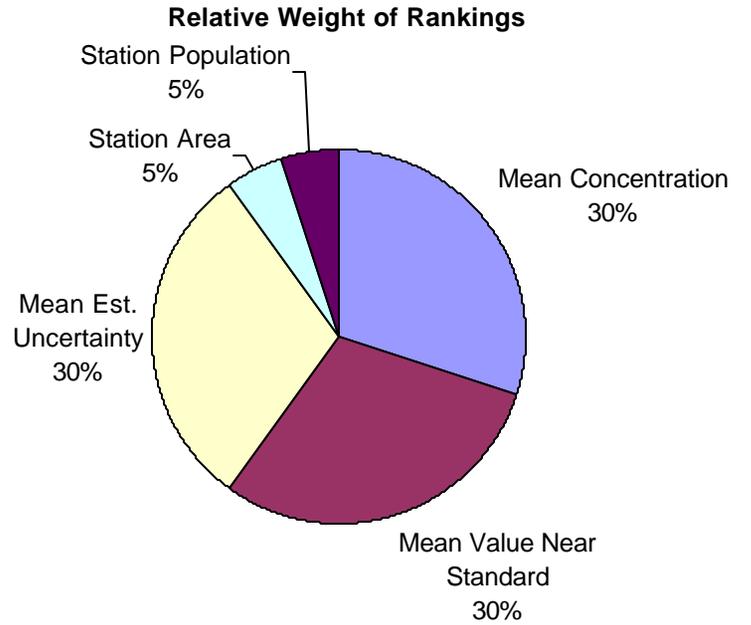
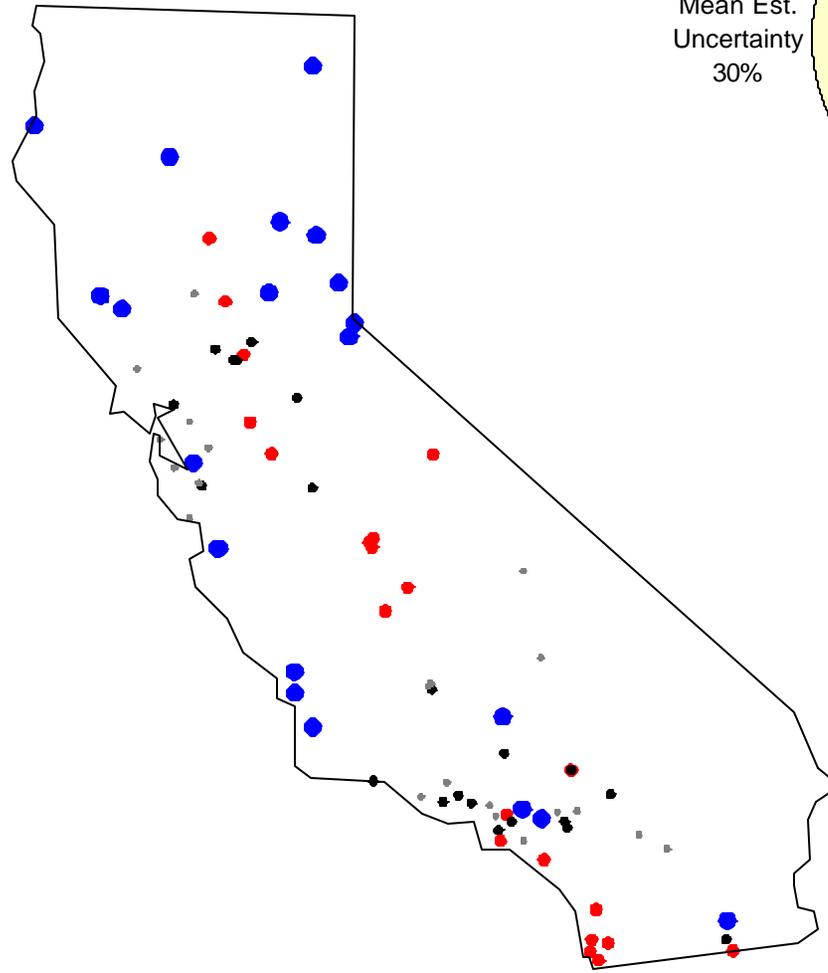
## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



PM25 Aggregate Ranking Map: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

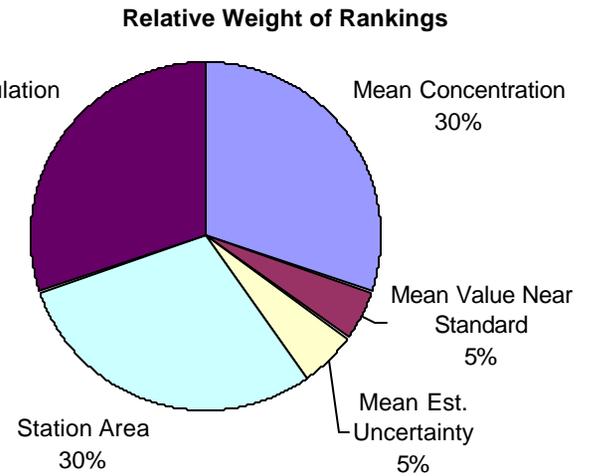
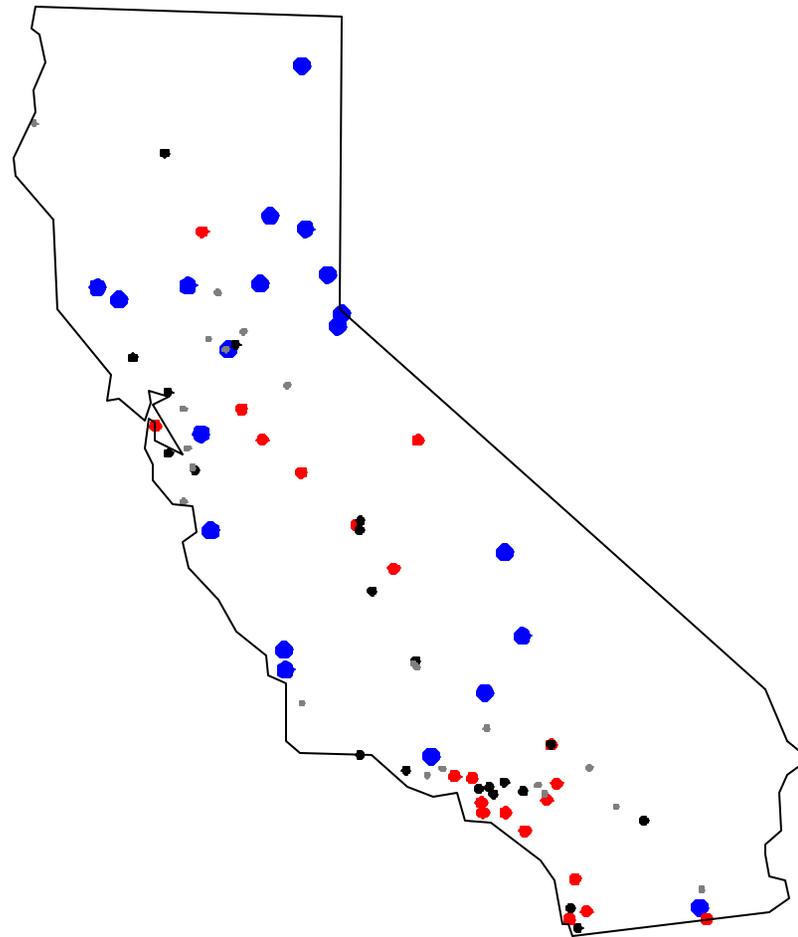
# Region 9 (CA)

## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



# Region 9 (CA)

## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value

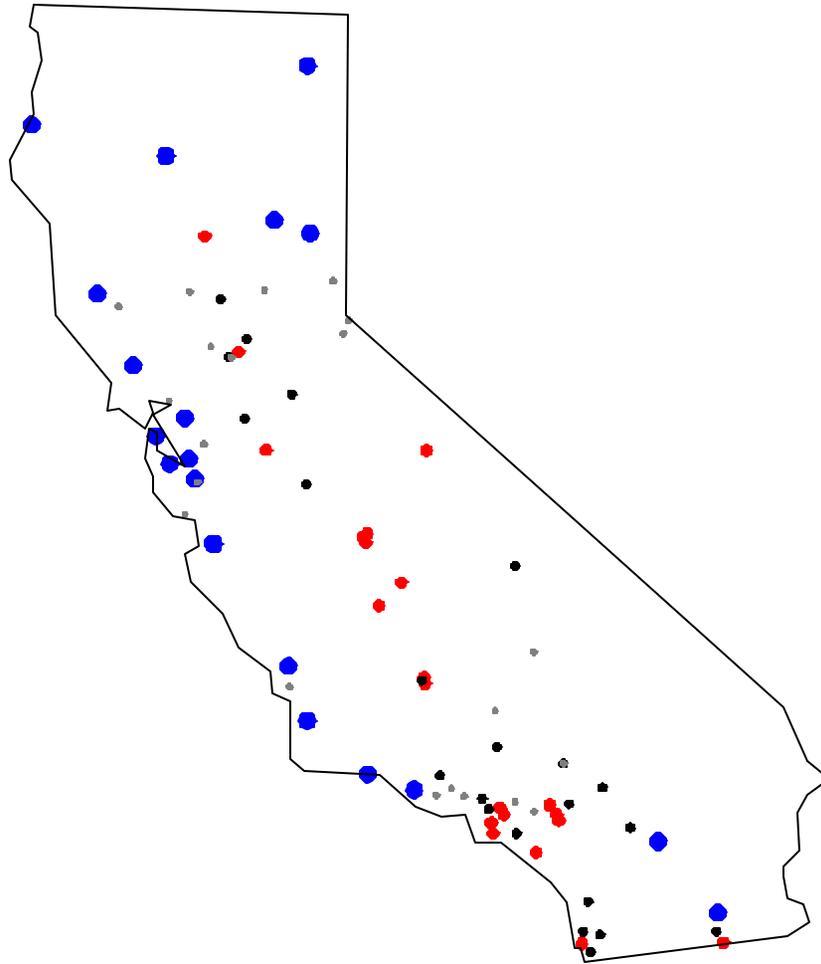
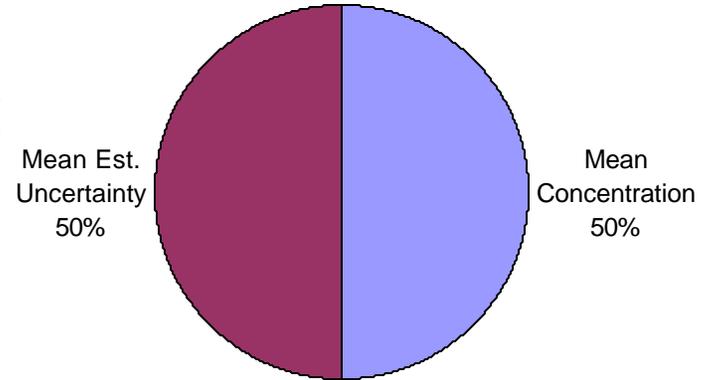


PM25 Aggregate Ranking Map B: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 9 (CA)

## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value

Relative Weight of Rankings

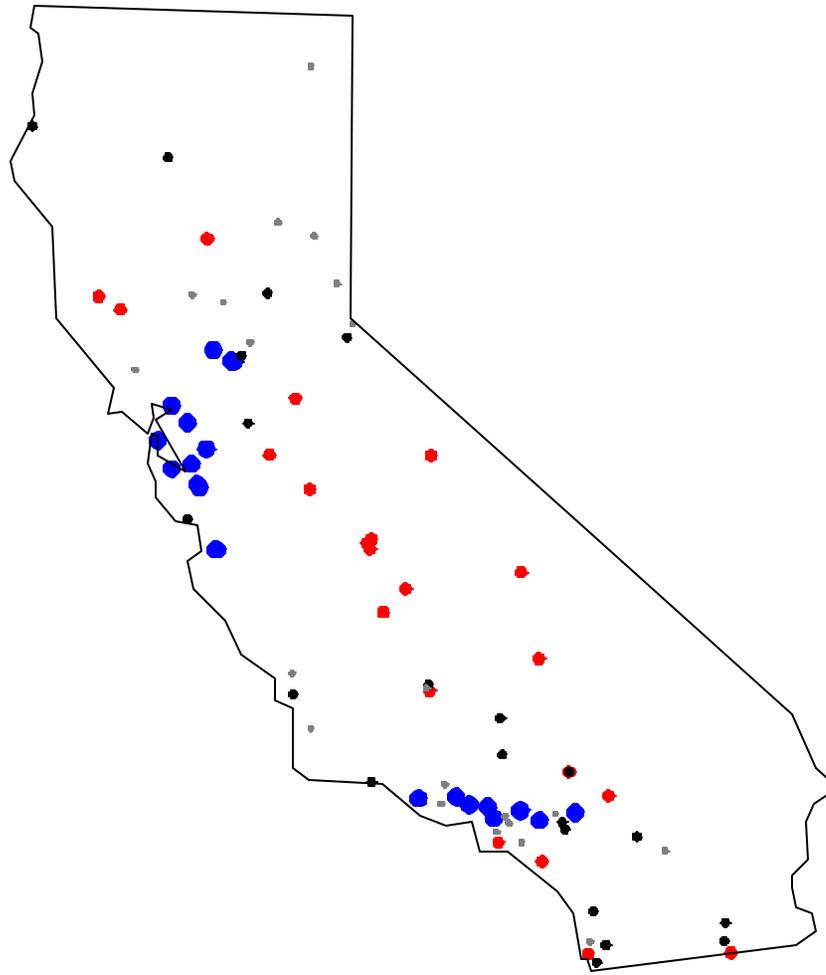
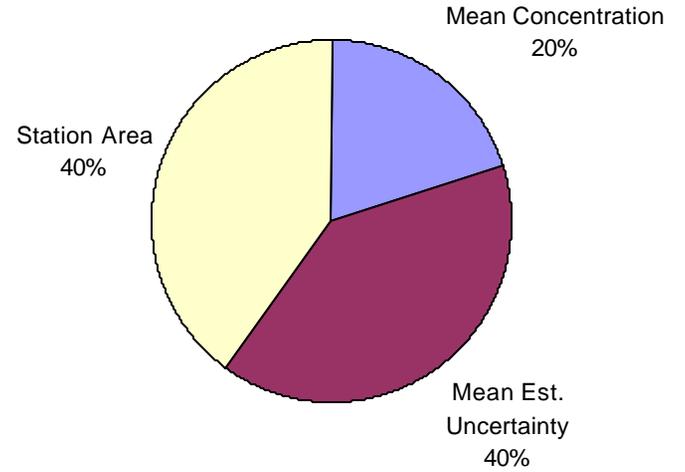


PM25 Aggregate Ranking Map C: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

# Region 9 (CA)

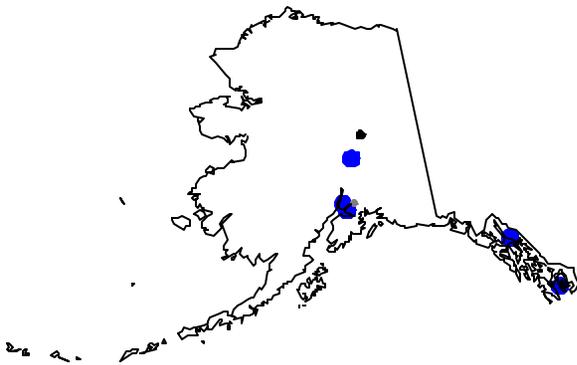
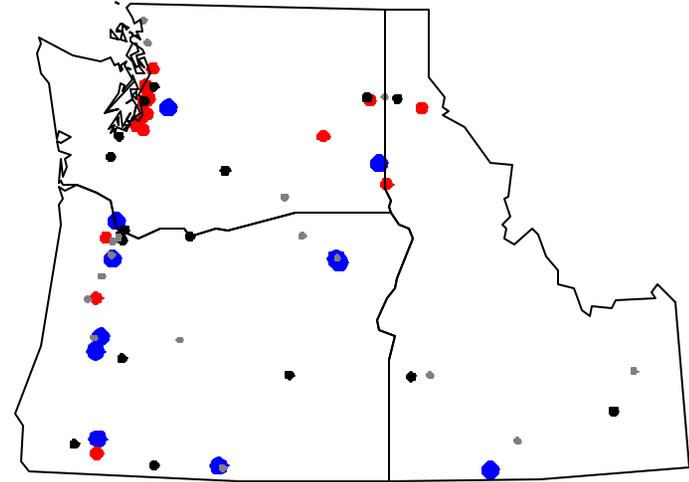
## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value

Relative Weight of Rankings



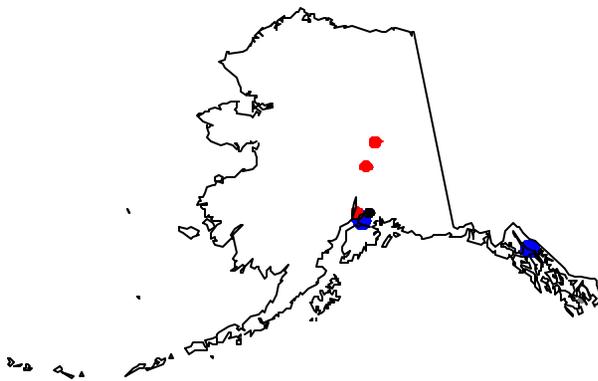
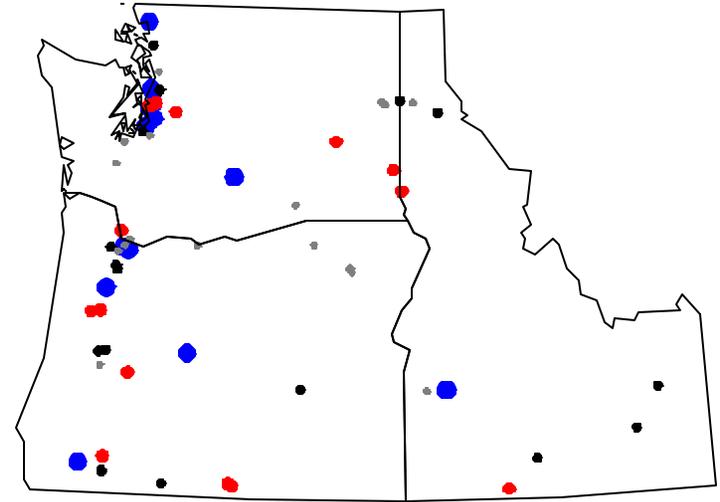
PM25 Aggregate Ranking Map D: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 10 PM25 Annual Mean: Red=Large Value, Blue=Small Value



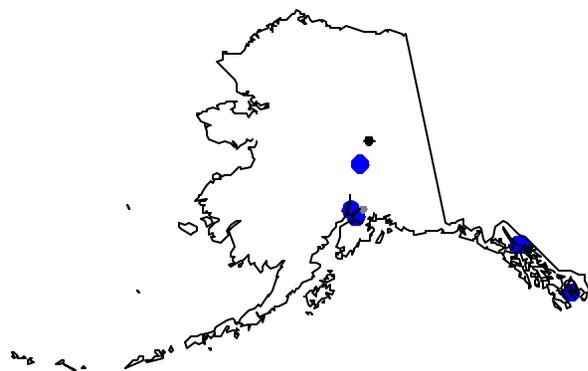
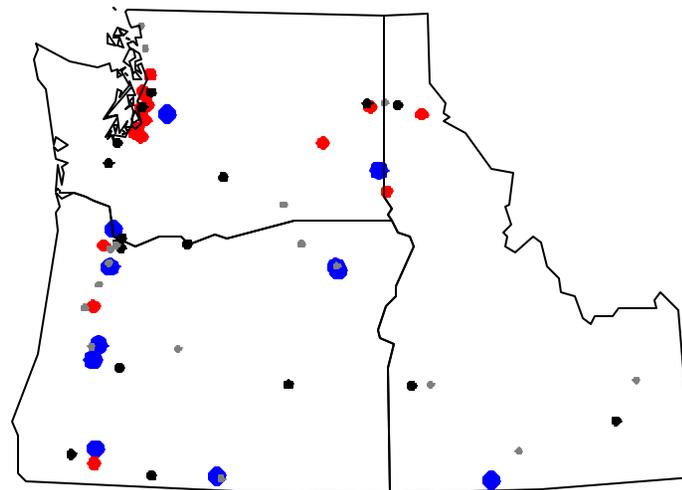
PM25 Annual Mean: Red=Q1, Black=Q2, Grey=Q3, Blue=Q4

# Region 10 Predicting PM25 Annual Mean: Red=High Uncertainty, Blue=Low Uncertainty



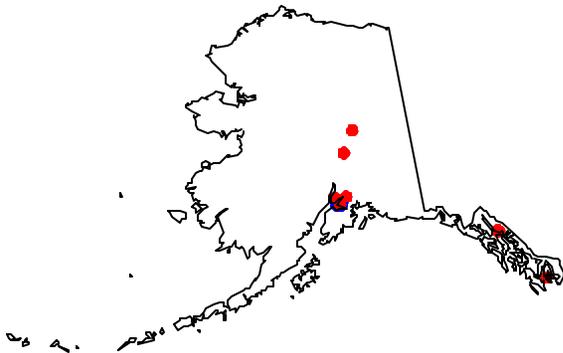
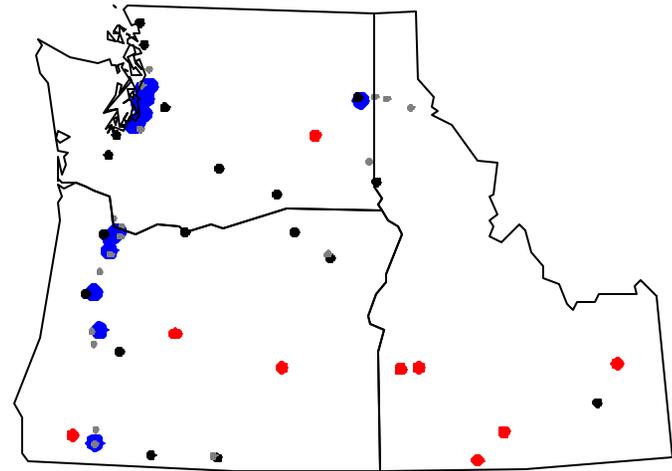
Predicting PM25 Annual Mean: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 10 Deviation from PM25 Annual Mean NAAQS: Red=Small Deviation, Blue=Large Deviation



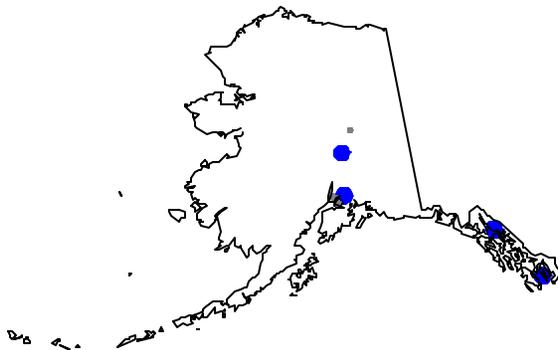
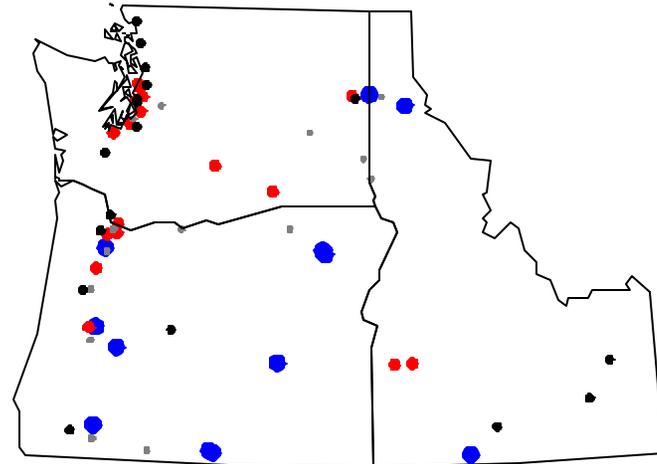
Deviation from PM25 Annual Mean NAAQS: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 10 Area for PM25 Monitors: Red=Large Area, Blue=Small Area



Area for PM25 Monitors: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# Region 10 Population for PM25 Monitors: Red=Large Population, Blue=Small Population



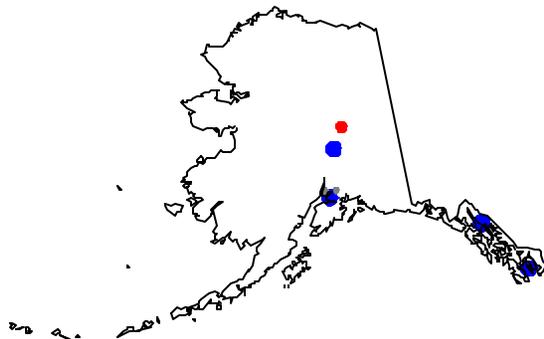
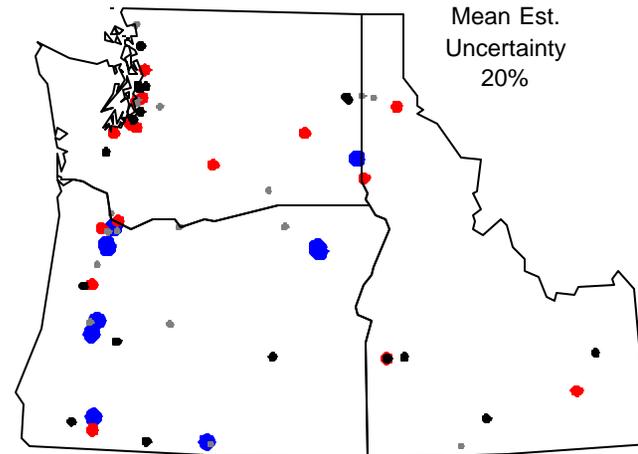
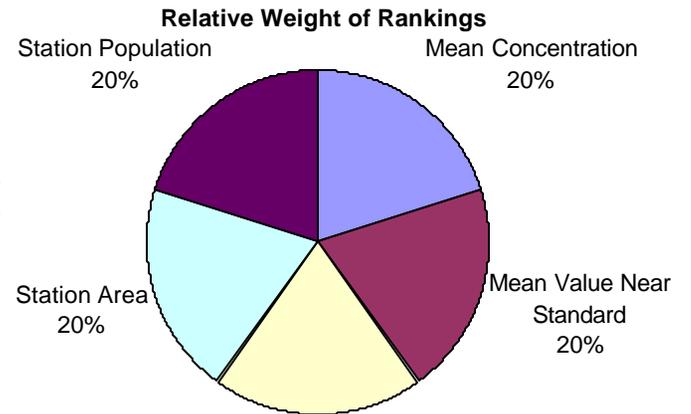
Population for PM25 Monitors: Red=Q1. Black=Q2. Grey=Q3. Blue=Q4

# PM25 Quartiles

	Region 10 PM25					
	pm25mean	% of NAAQS	pm25error	dif_NAAQS_mean	area	population
Q1	10.1	67.3%	2.333	4.9	25316.17	213390
Q2	9	60.0%	1.4228	6	10244.8	129889
Q3	6.8	45.3%	0.8	8.2	2843.621	69653

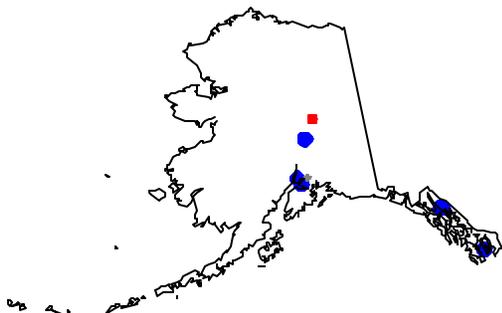
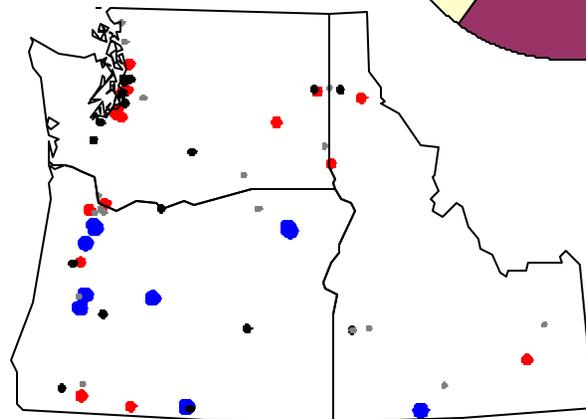
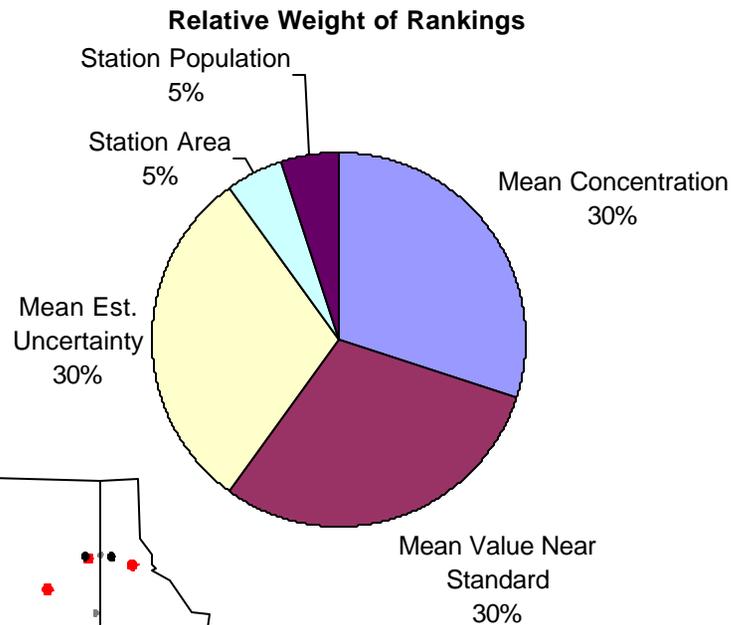
# Region 10

## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



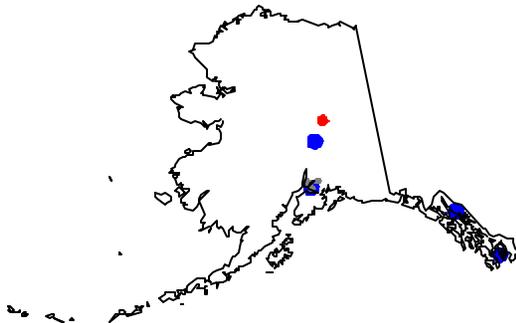
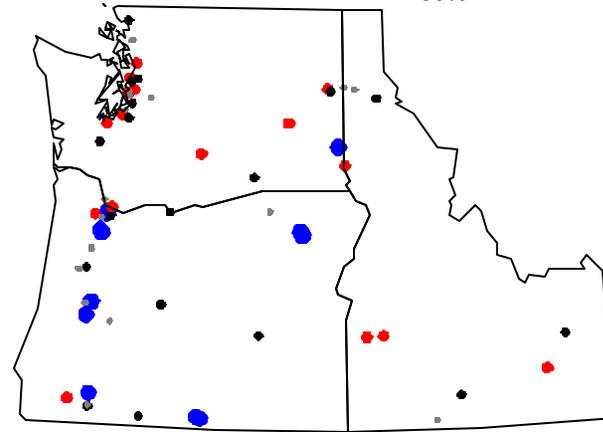
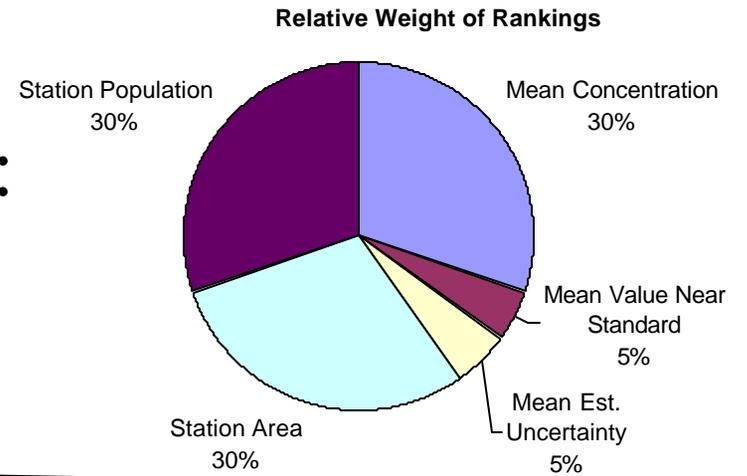
# Region 10

## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value



# Region 10

## PM25 Aggregate Ranking Map: Red=High Value, Blue=Low Value

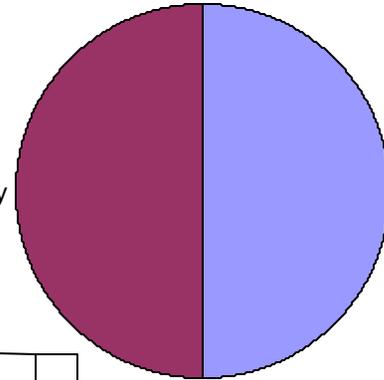


# Region 10

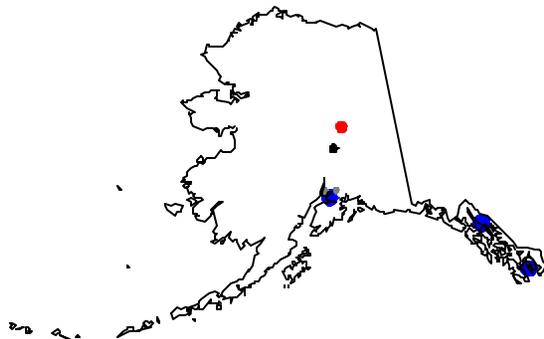
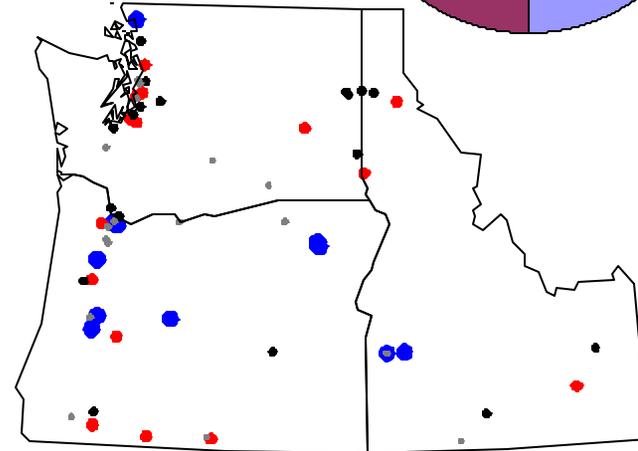
PM25 Aggregate Ranking Map:  
Red=High Value, Blue=Low Value

Relative Weight of Rankings

Mean Est.  
Uncertainty  
50%



Mean  
Concentration  
50%



# Region 10

PM25 Aggregate Ranking Map:  
Red=High Value, Blue=Low Value

Relative Weight of Rankings

