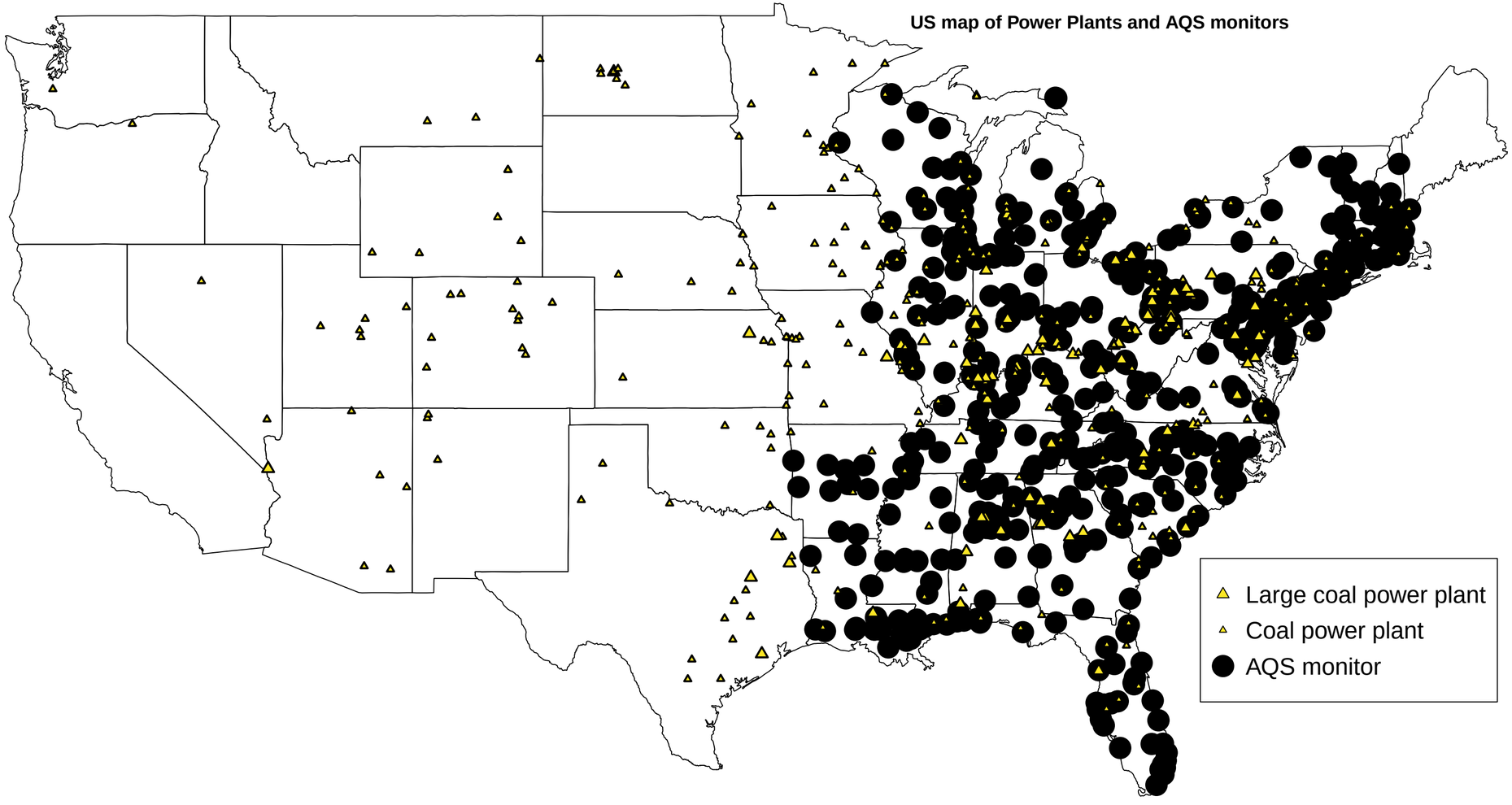
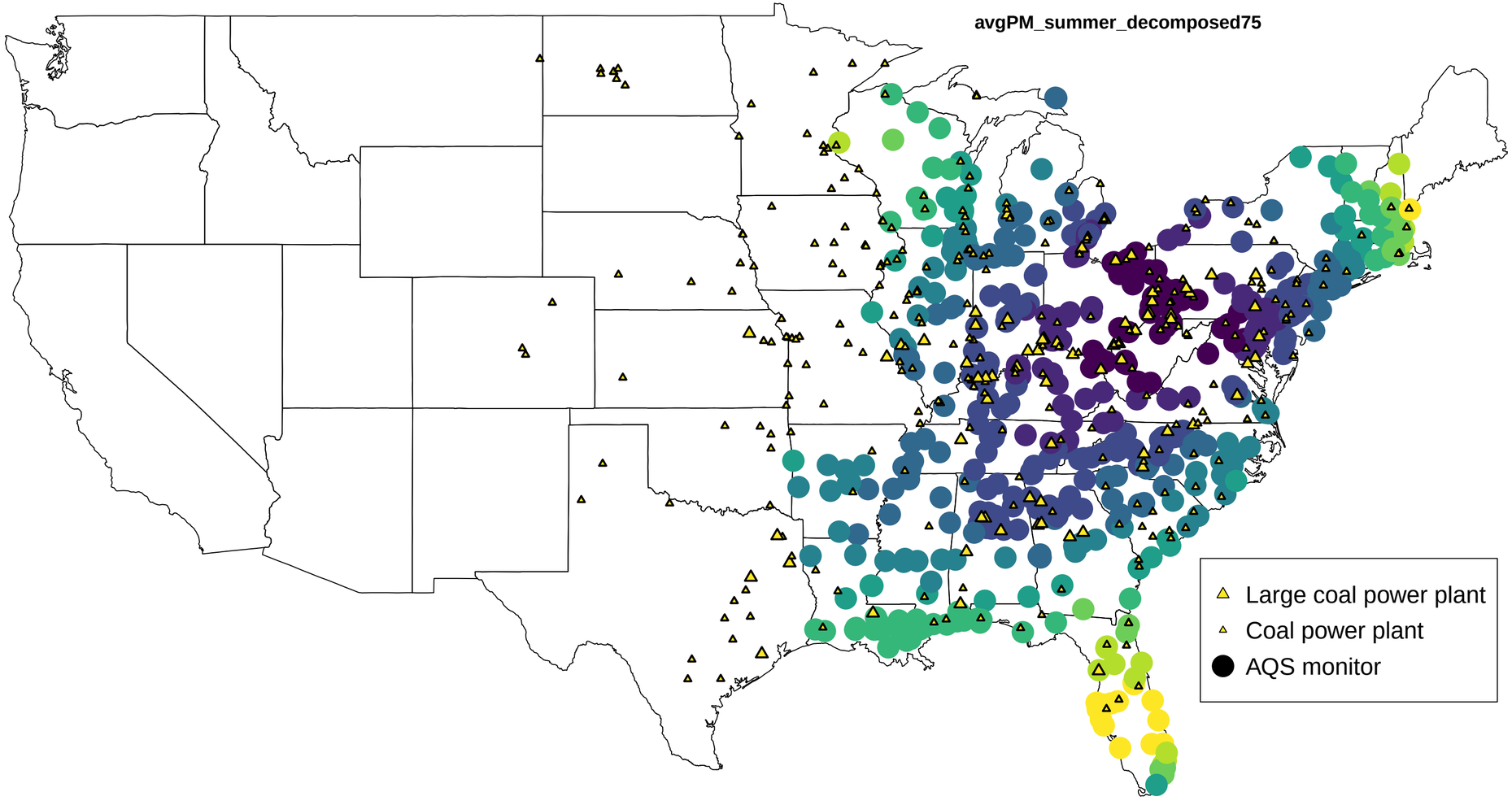
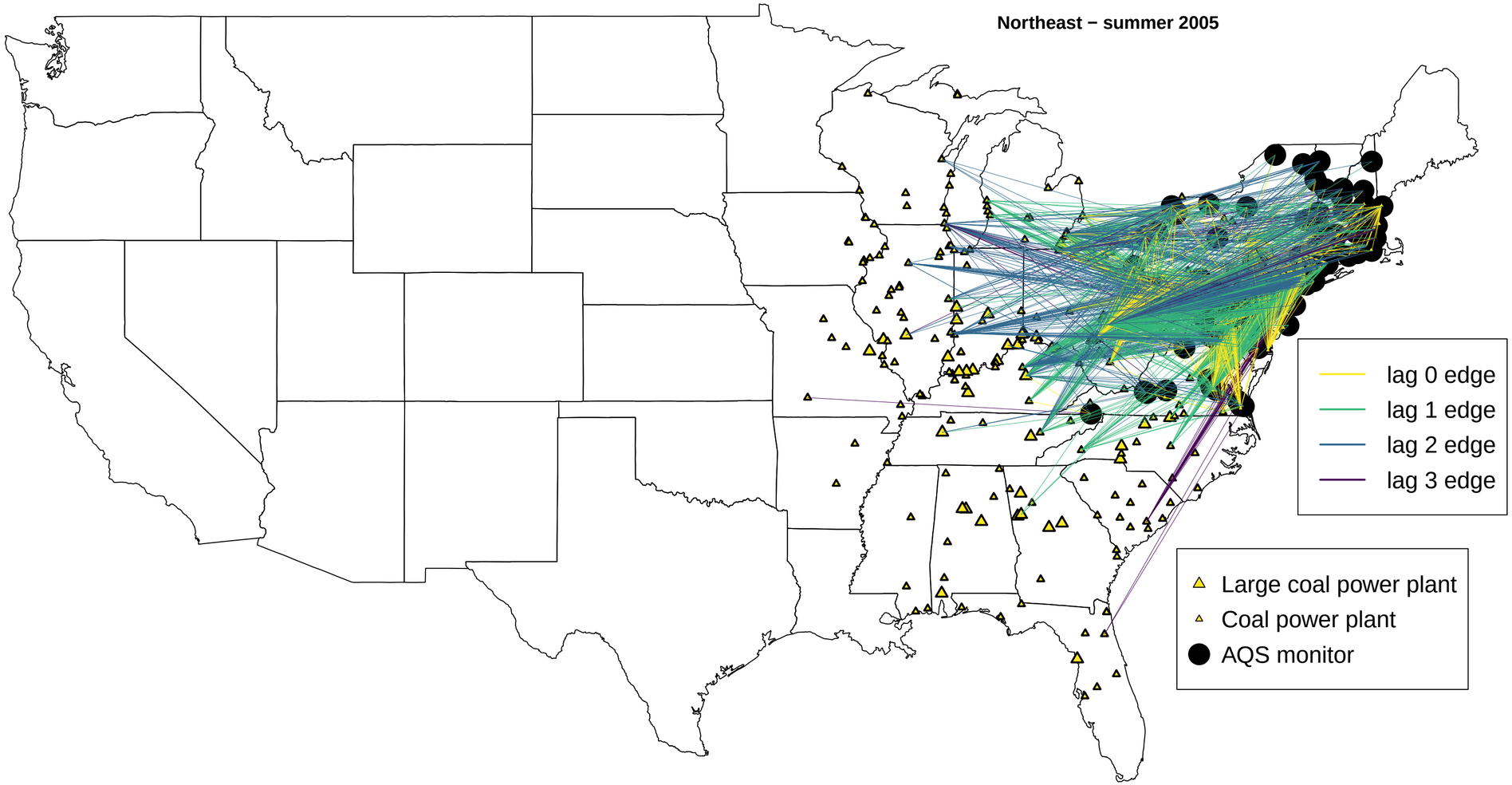
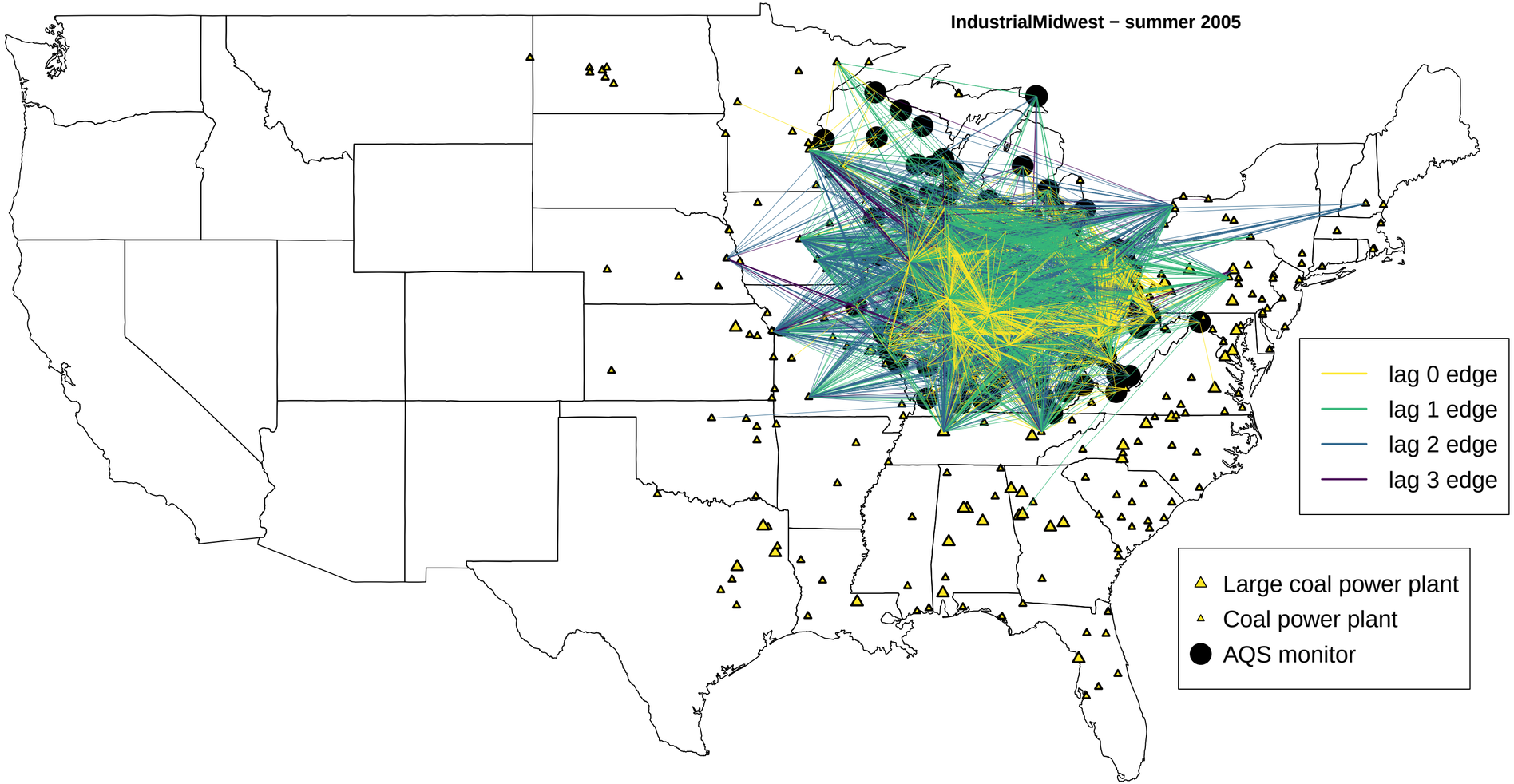
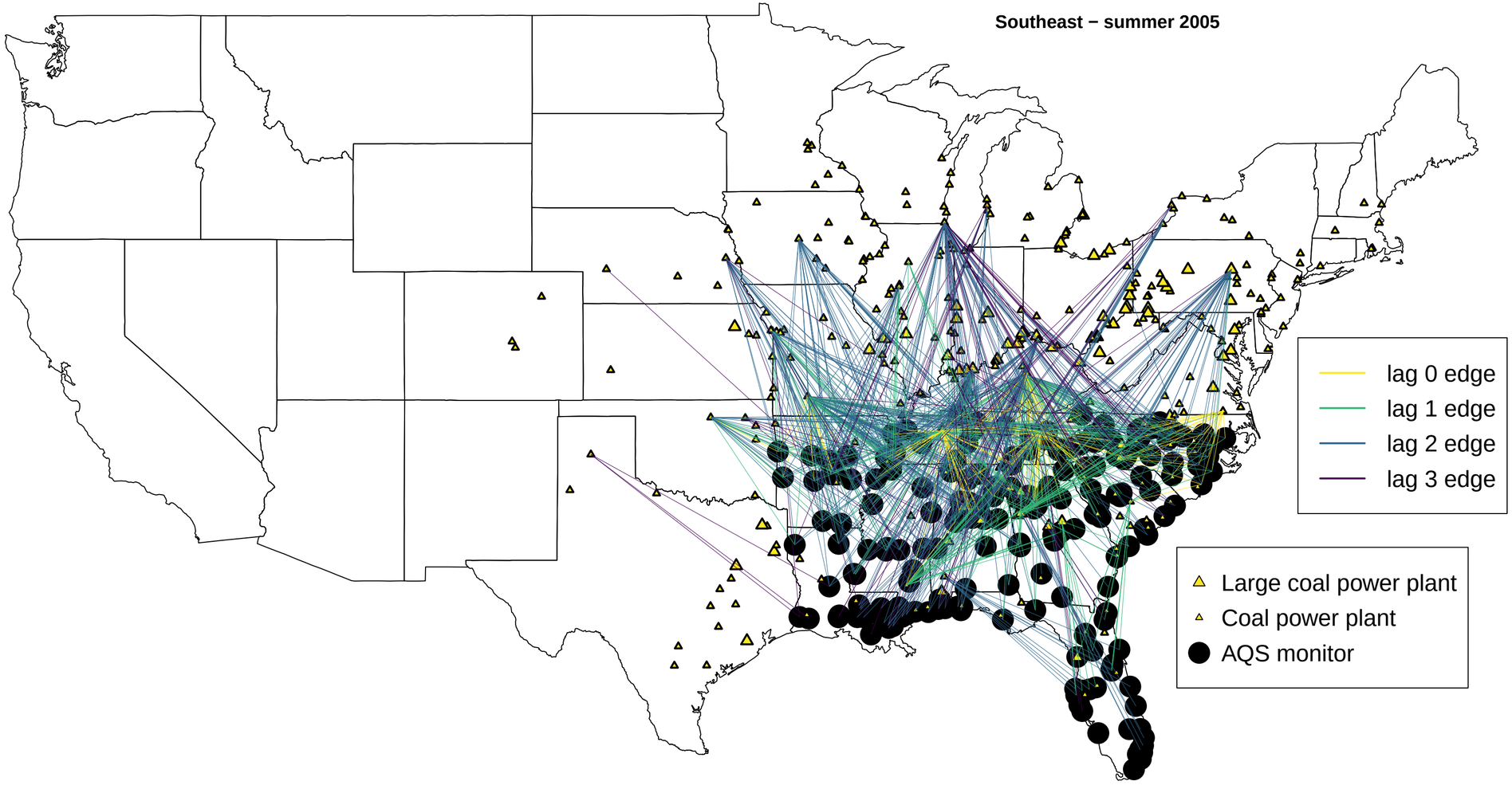
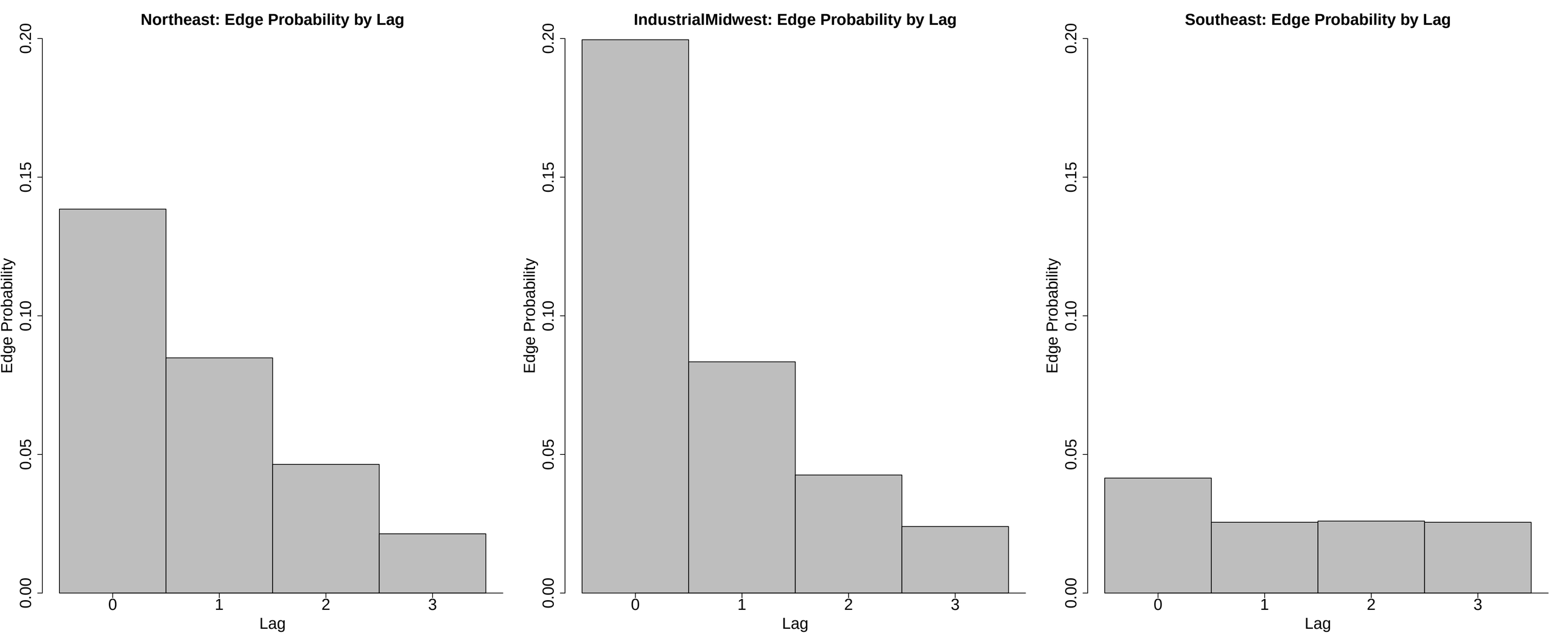

US map of Power Plants and AQS monitors
Large coal power plant
Coal power plant
AQS monitor

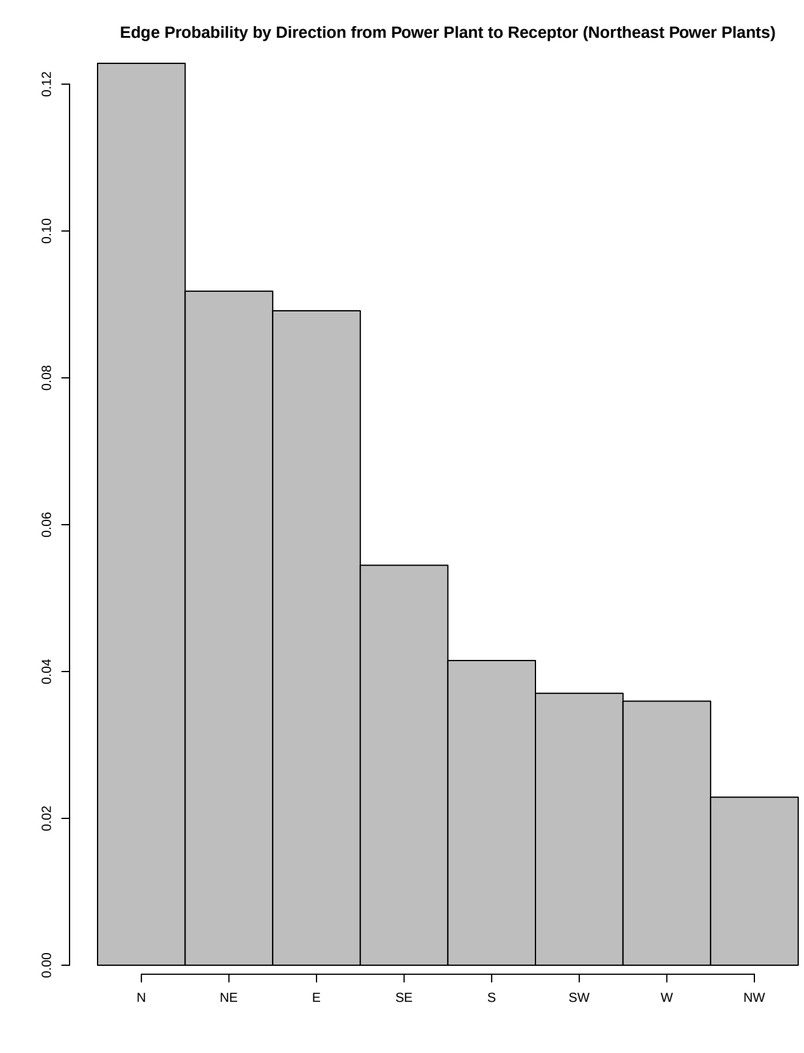

avgPM_summer_decomposed75
Large coal power plant
Coal power plant
AQS monitor

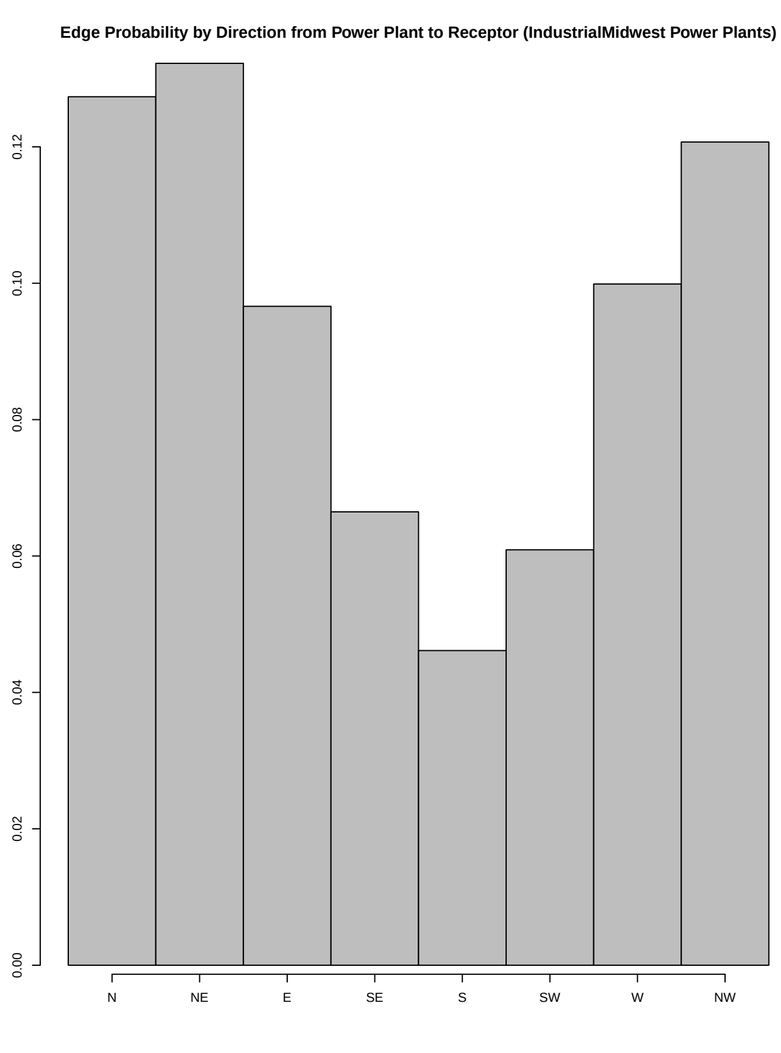

Northeast − summer 2005
lag 0 edge
lag 1 edge
lag 2 edge
lag 3 edge
Large coal power plant
Coal power plant
AQS monitor

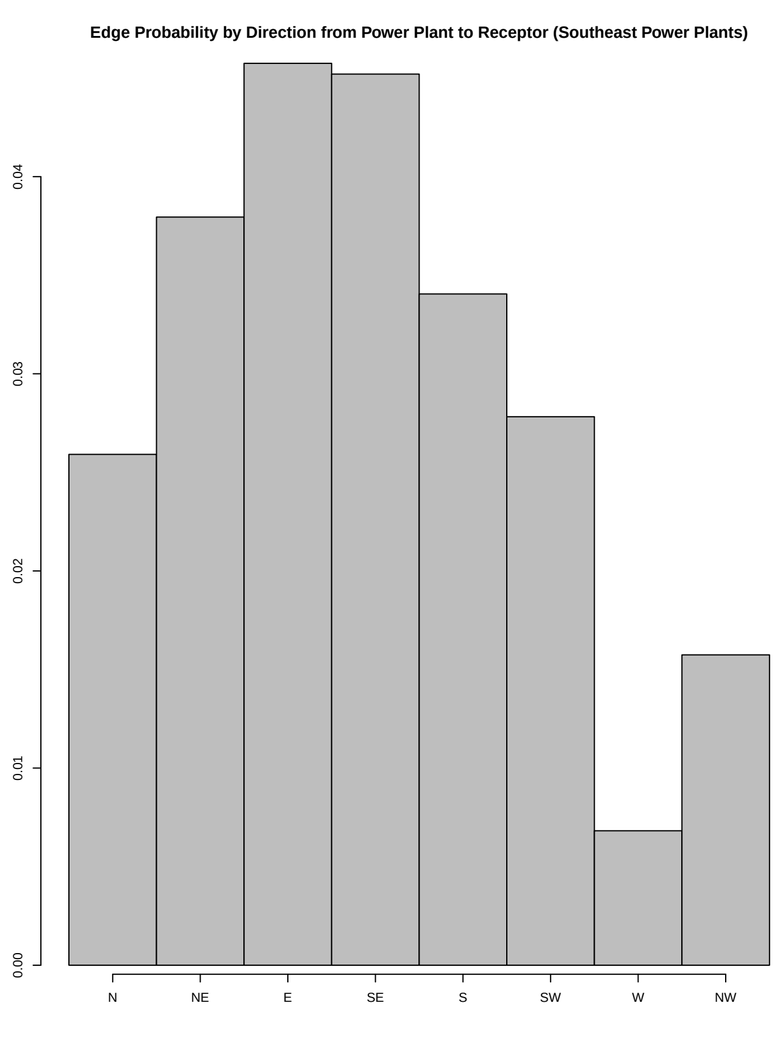

IndustrialMidwest − summer 2005
lag 0 edge
lag 1 edge
lag 2 edge
lag 3 edge
Large coal power plant
Coal power plant
AQS monitor

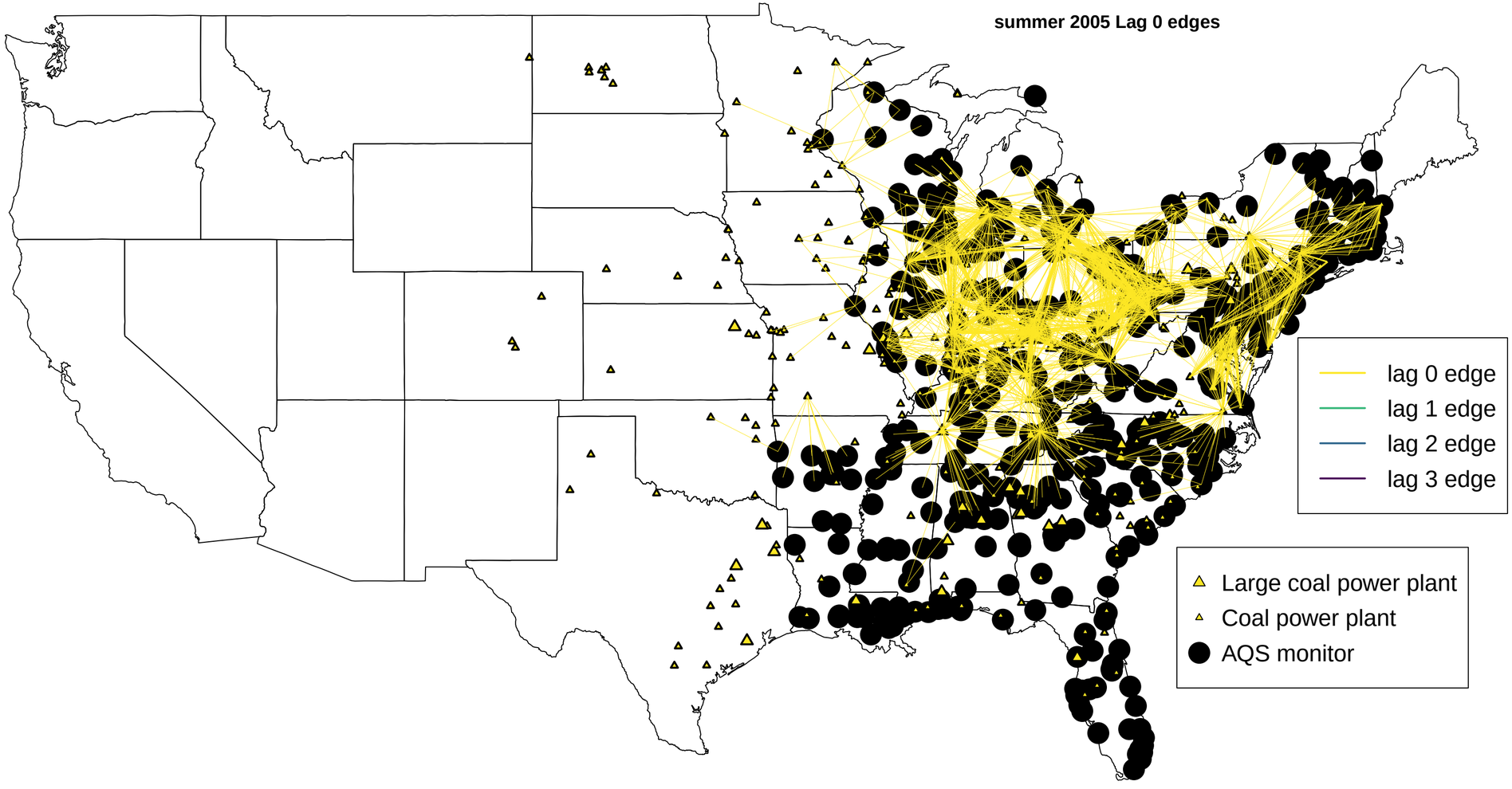

Southeast − summer 2005
lag 0 edge
lag 1 edge
lag 2 edge
lag 3 edge
Large coal power plant
Coal power plant
AQS monitor

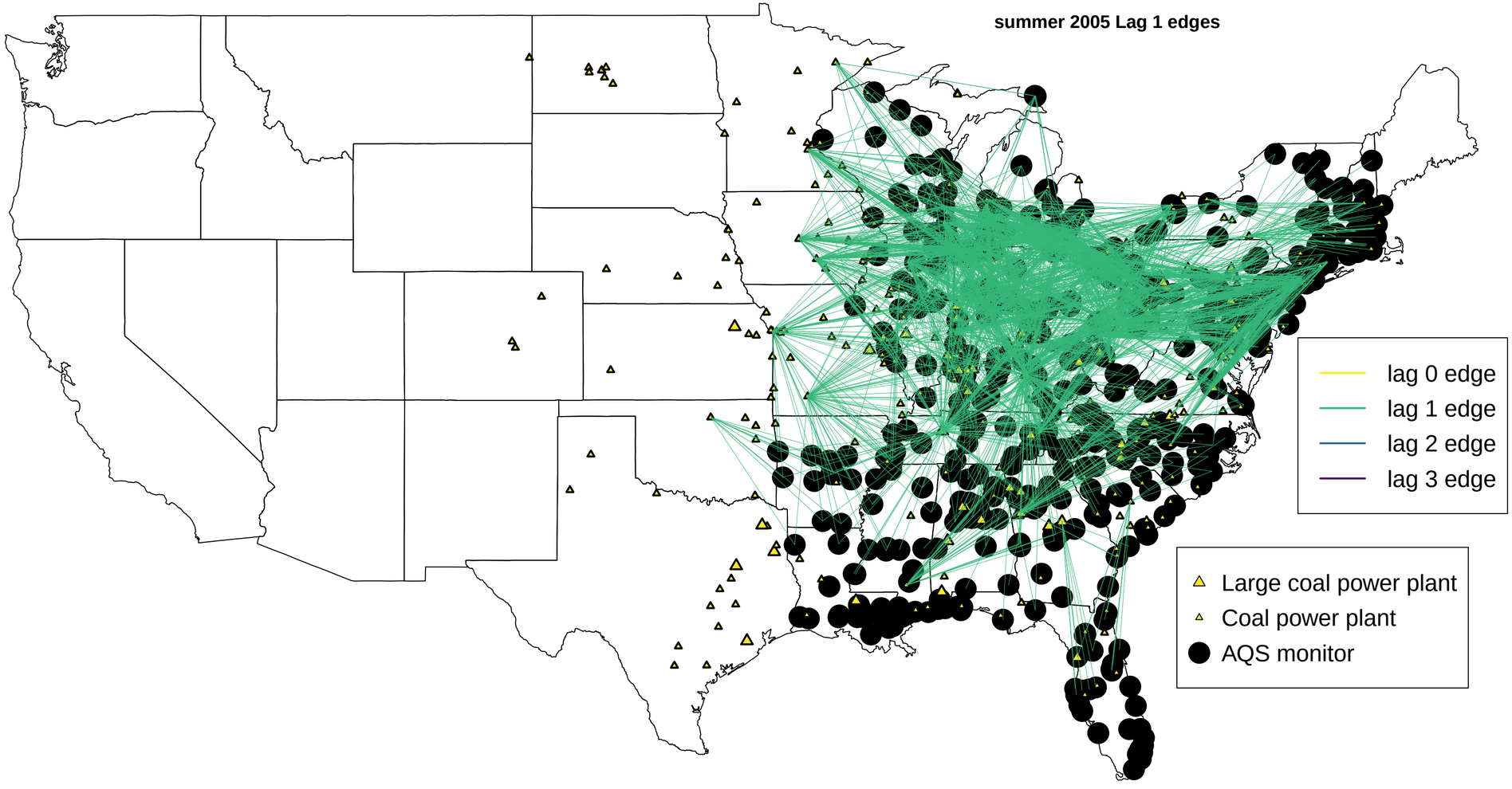

Northeast: Edge Probability by Lag
Edge Probability
0.00
0.05
0.10
0.15
0.20
0
1
2
3
Lag
IndustrialMidwest: Edge Probability by Lag
Edge Probability
0.00
0.05
0.10
0.15
0.20
0
1
2
3
Lag
Southeast: Edge Probability by Lag
Edge Probability
0.00
0.05
0.10
0.15
0.20
0
1
2
3
Lag

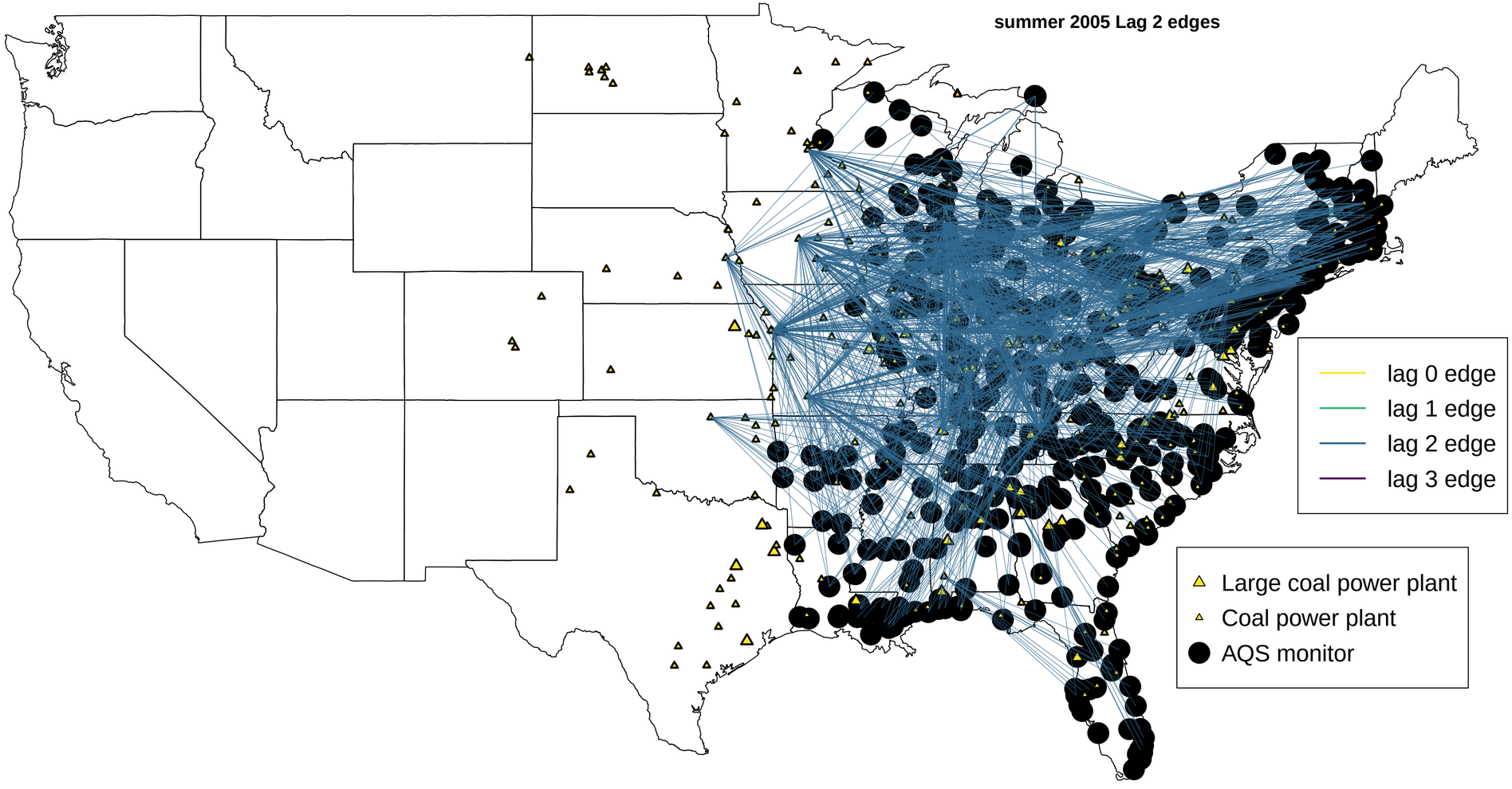

Edge Probability by Direction from Power Plant to Receptor (Northeast Power Plants)
0.00
0.02
0.04
0.06
0.08
0.10
0.12
N
NE
E
SE
S
SW
W
NW

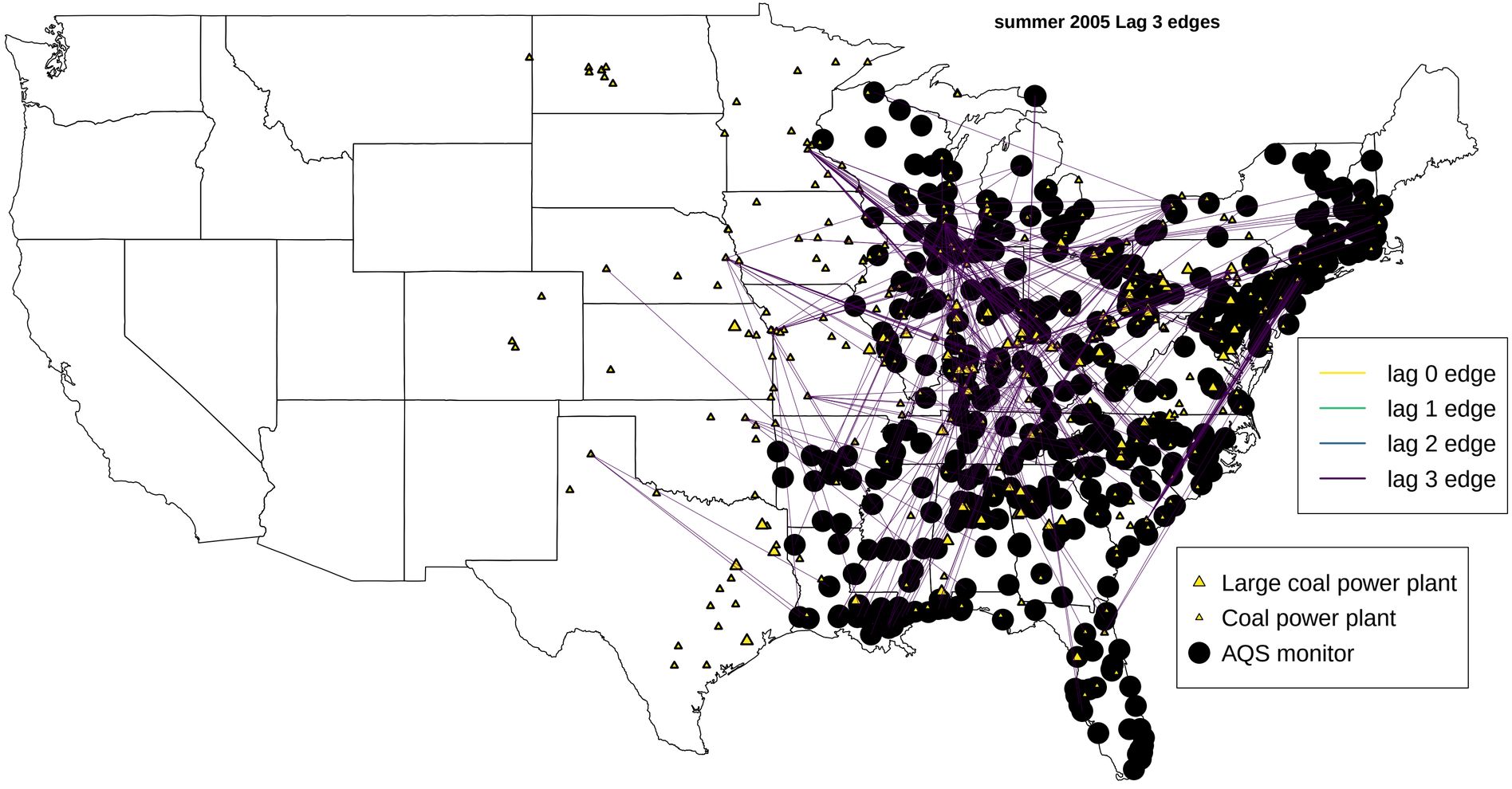

Edge Probability by Direction from Power Plant to Receptor (IndustrialMidwest Power Plants)
0.00
0.02
0.04
0.06
0.08
0.10
0.12
N
NE
E
SE
S
SW
W
NW


Edge Probability by Direction from Power Plant to Receptor (Southeast Power Plants)
0.00
0.01
0.02
0.03
0.04
N
NE
E
SE
S
SW
W
NW

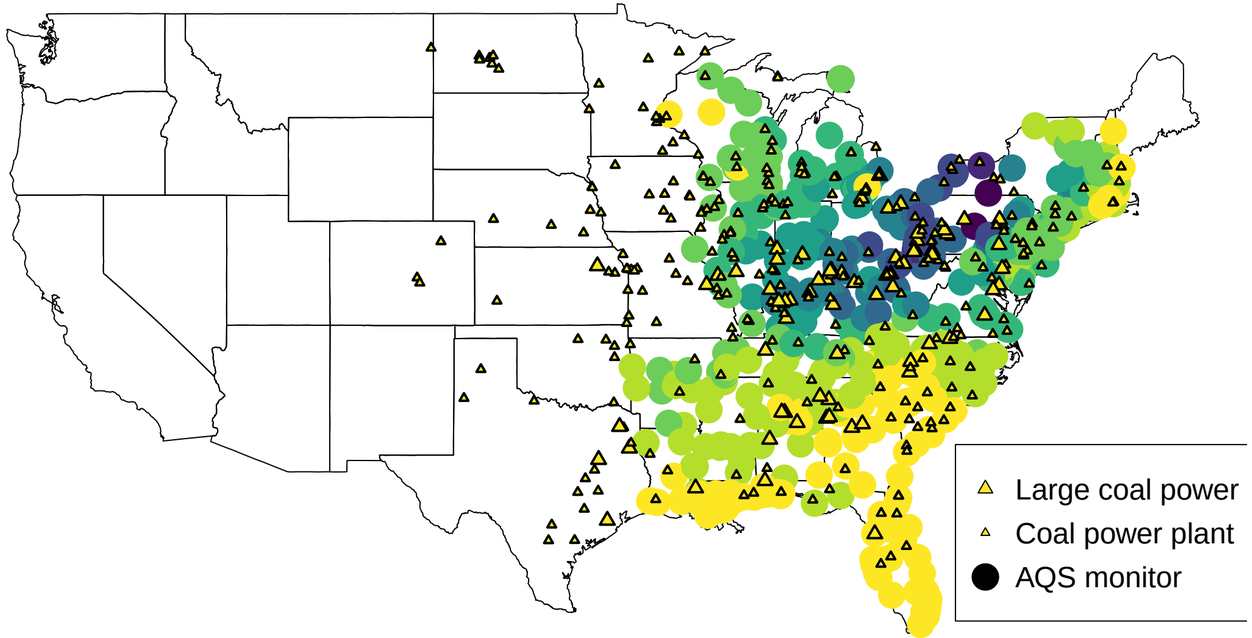

summer 2005 Lag 0 edges
lag 0 edge
lag 1 edge
lag 2 edge
lag 3 edge
Large coal power plant
Coal power plant
AQS monitor


summer 2005 Lag 1 edges
lag 0 edge
lag 1 edge
lag 2 edge
lag 3 edge
Large coal power plant
Coal power plant
AQS monitor

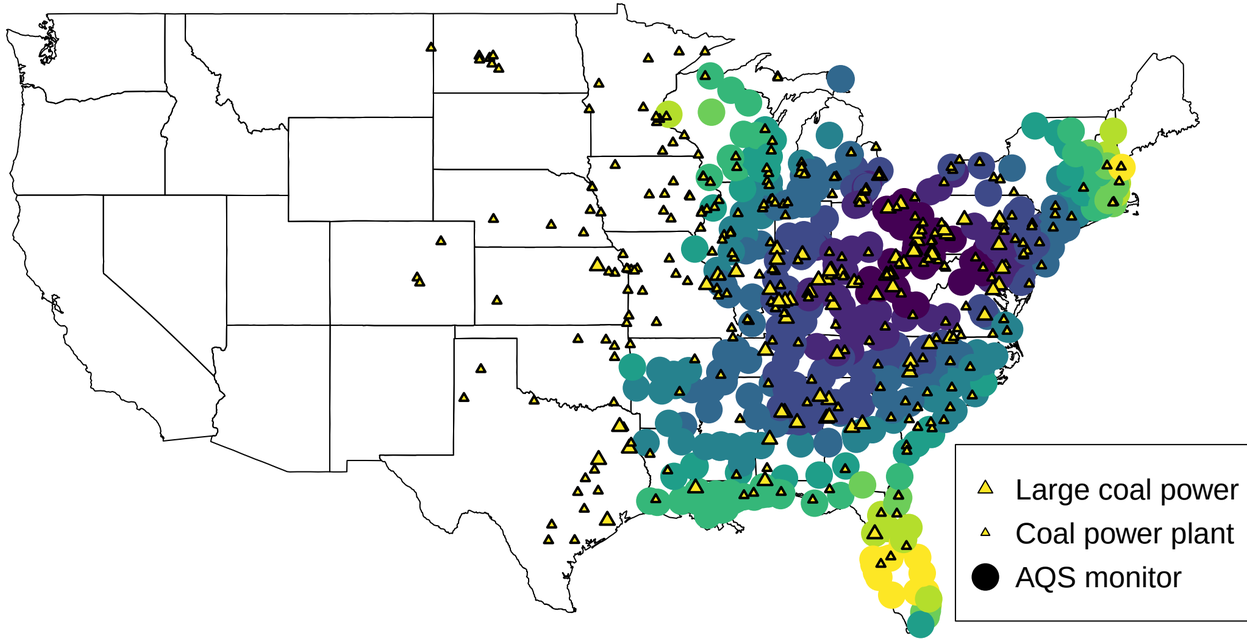

summer 2005 Lag 2 edges
lag 0 edge
lag 1 edge
lag 2 edge
lag 3 edge
Large coal power plant
Coal power plant
AQS monitor

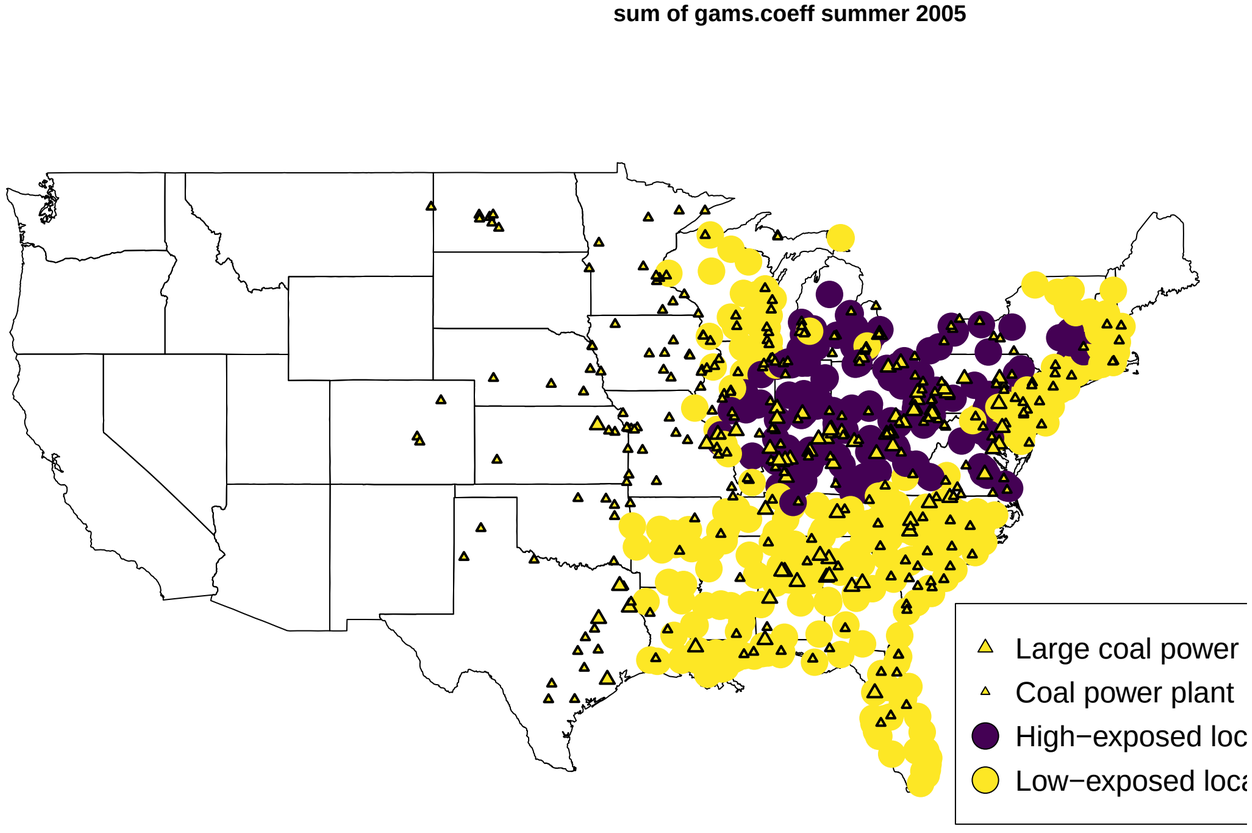

summer 2005 Lag 3 edges
lag 0 edge
lag 1 edge
lag 2 edge
lag 3 edge
Large coal power plant
Coal power plant
AQS monitor

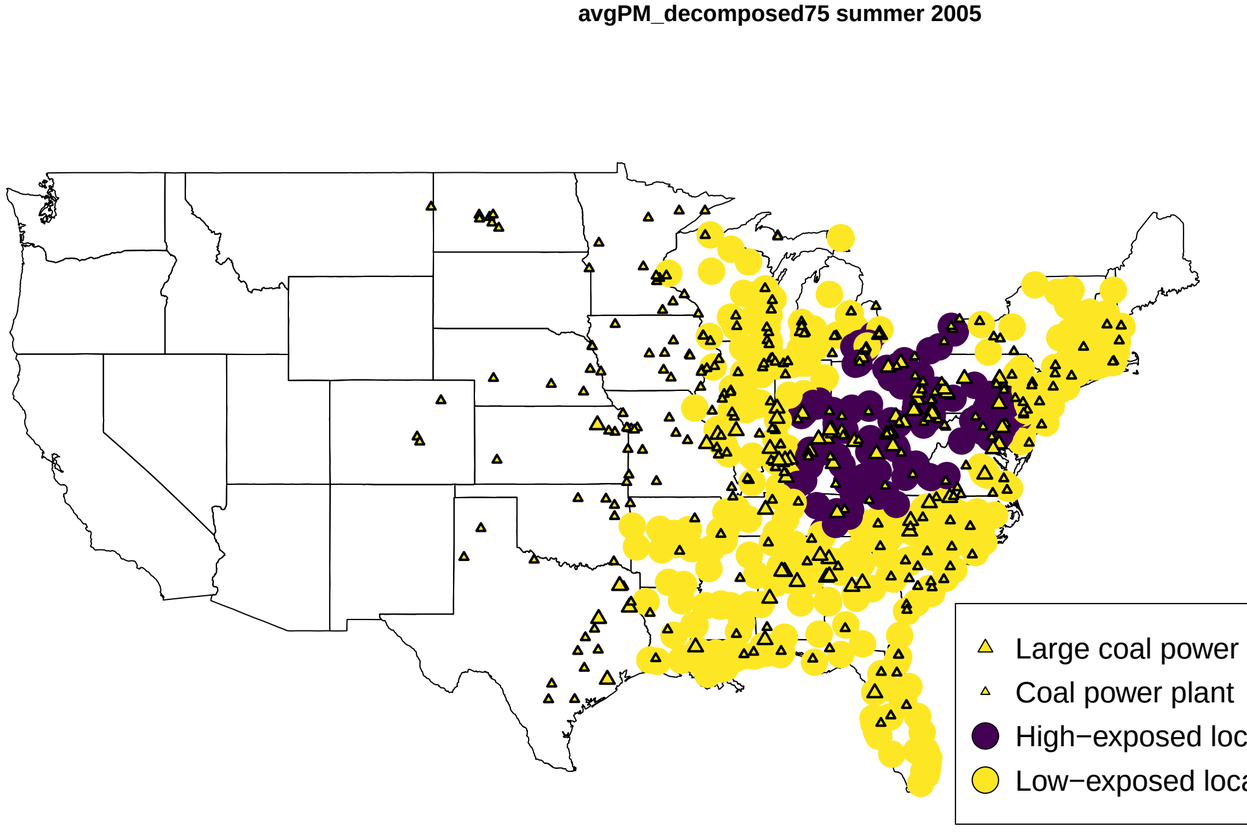
sum of gams.coeff summer 2005

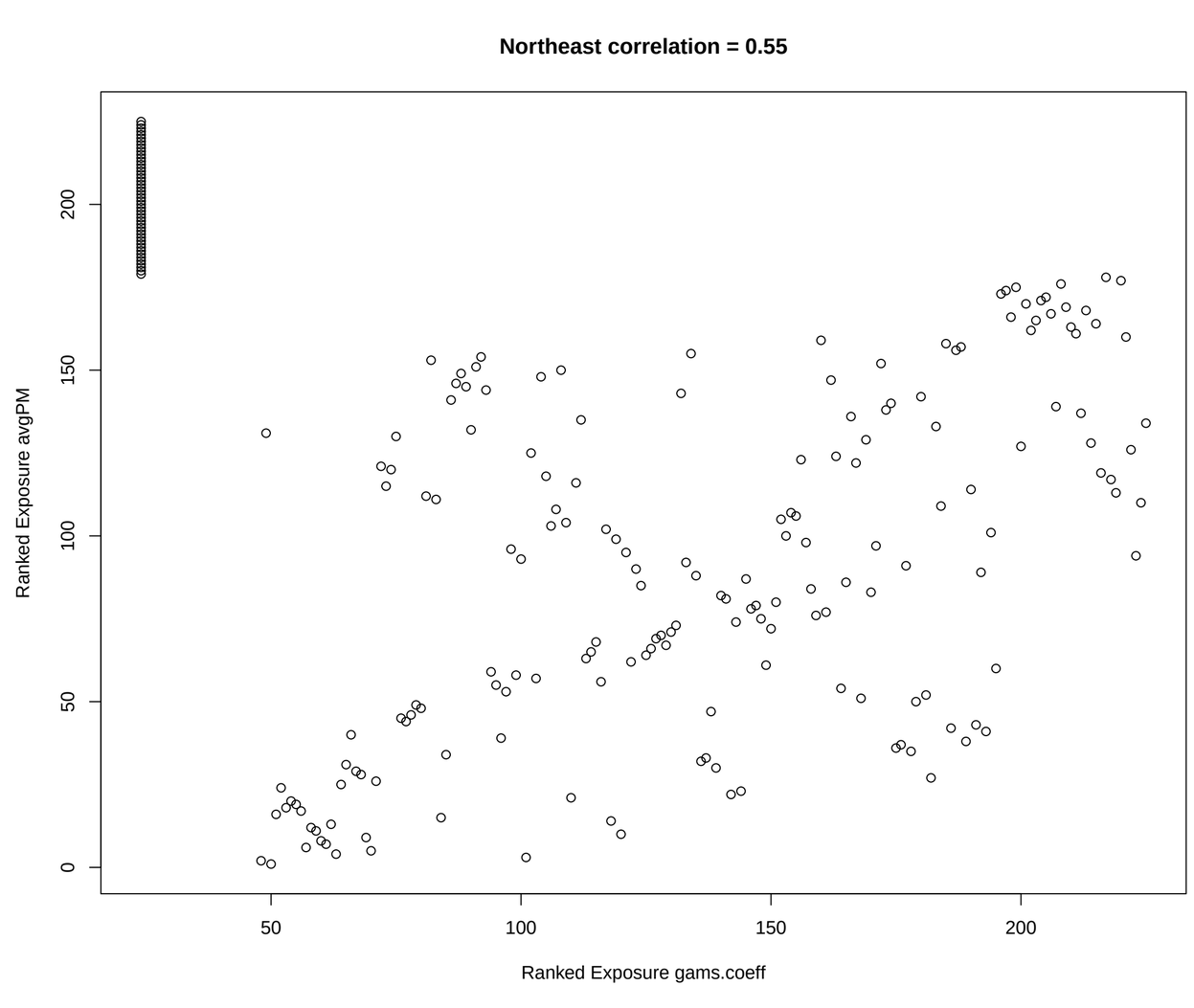


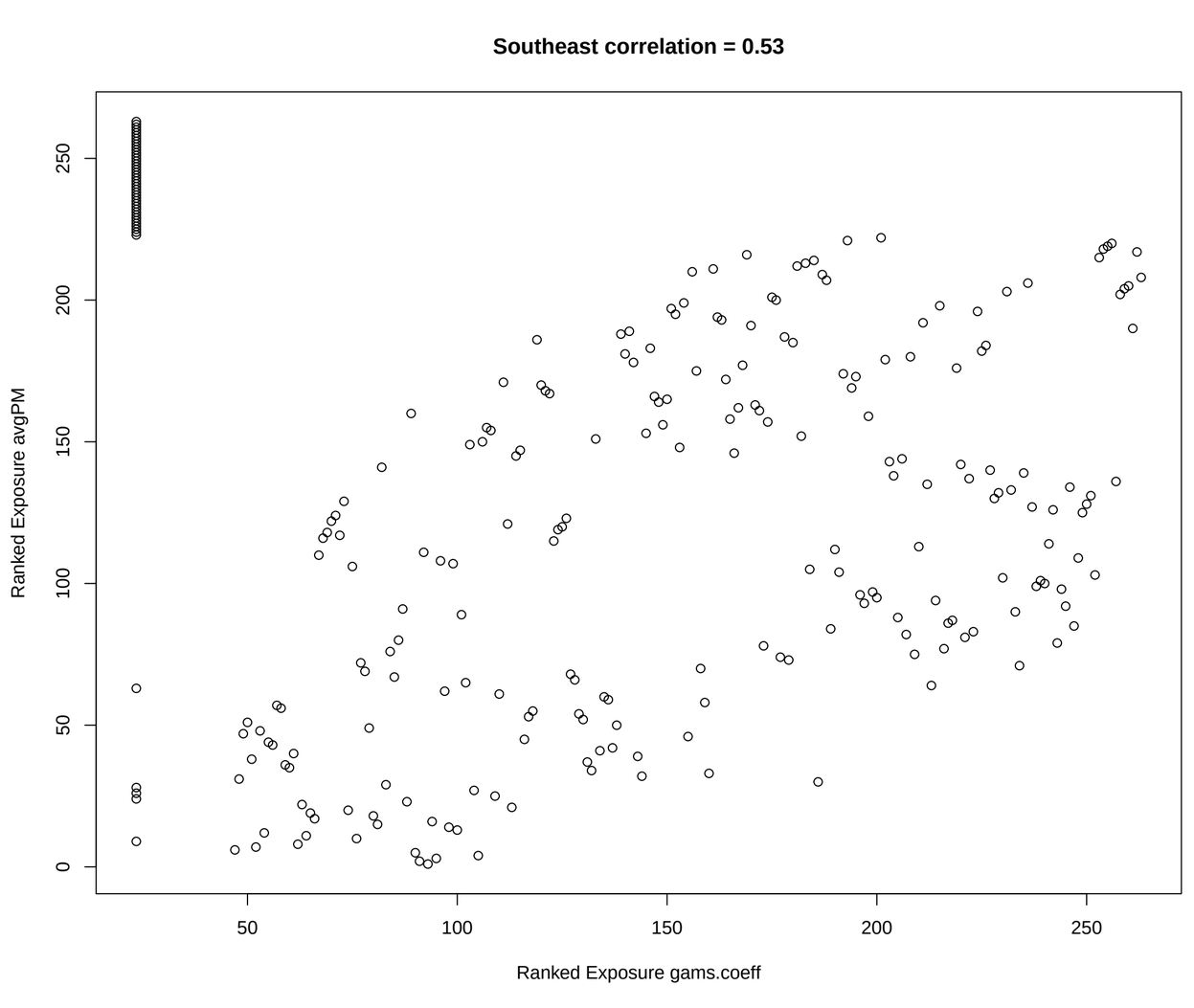
avgPM_decomposed75 summer 2005

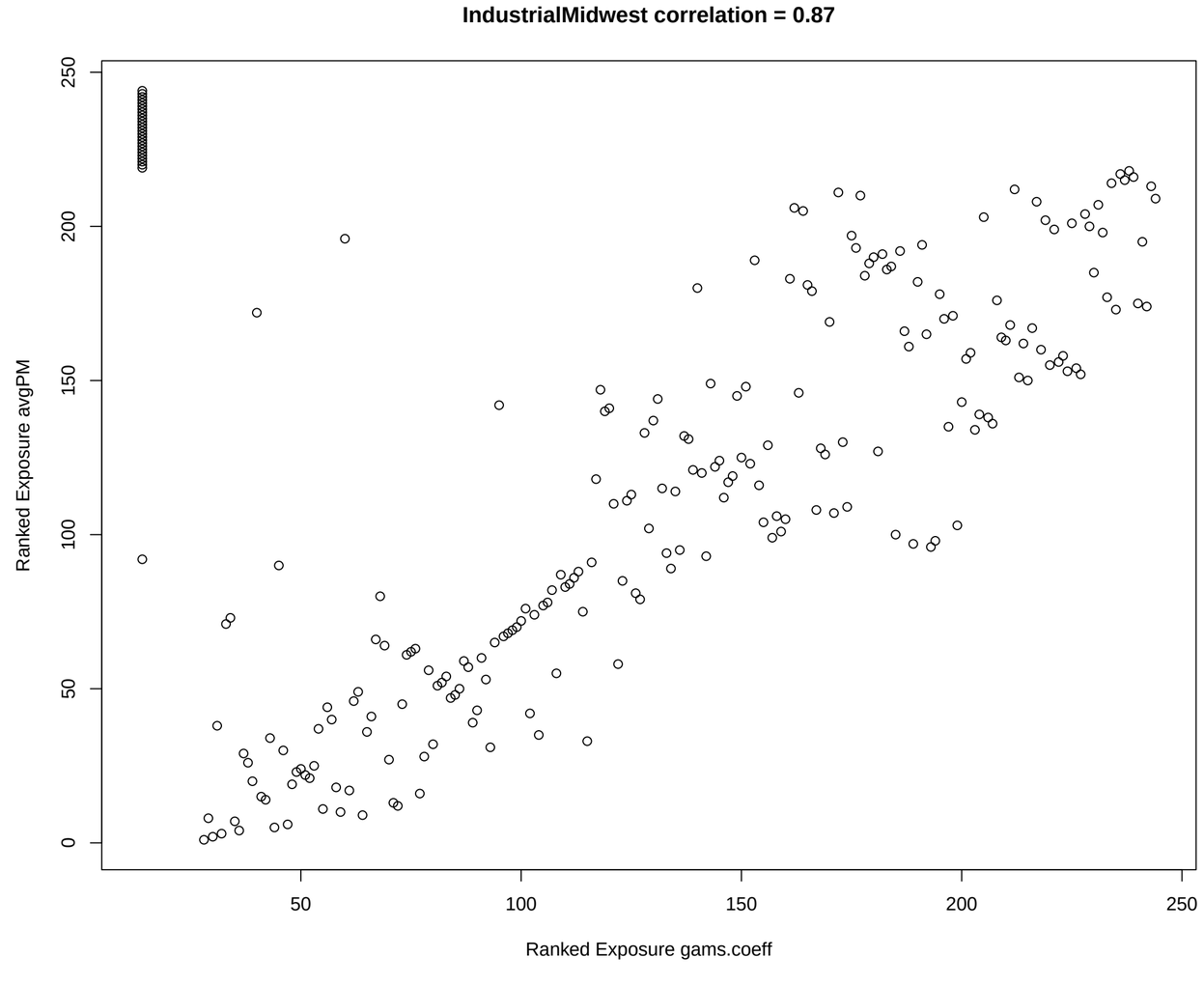


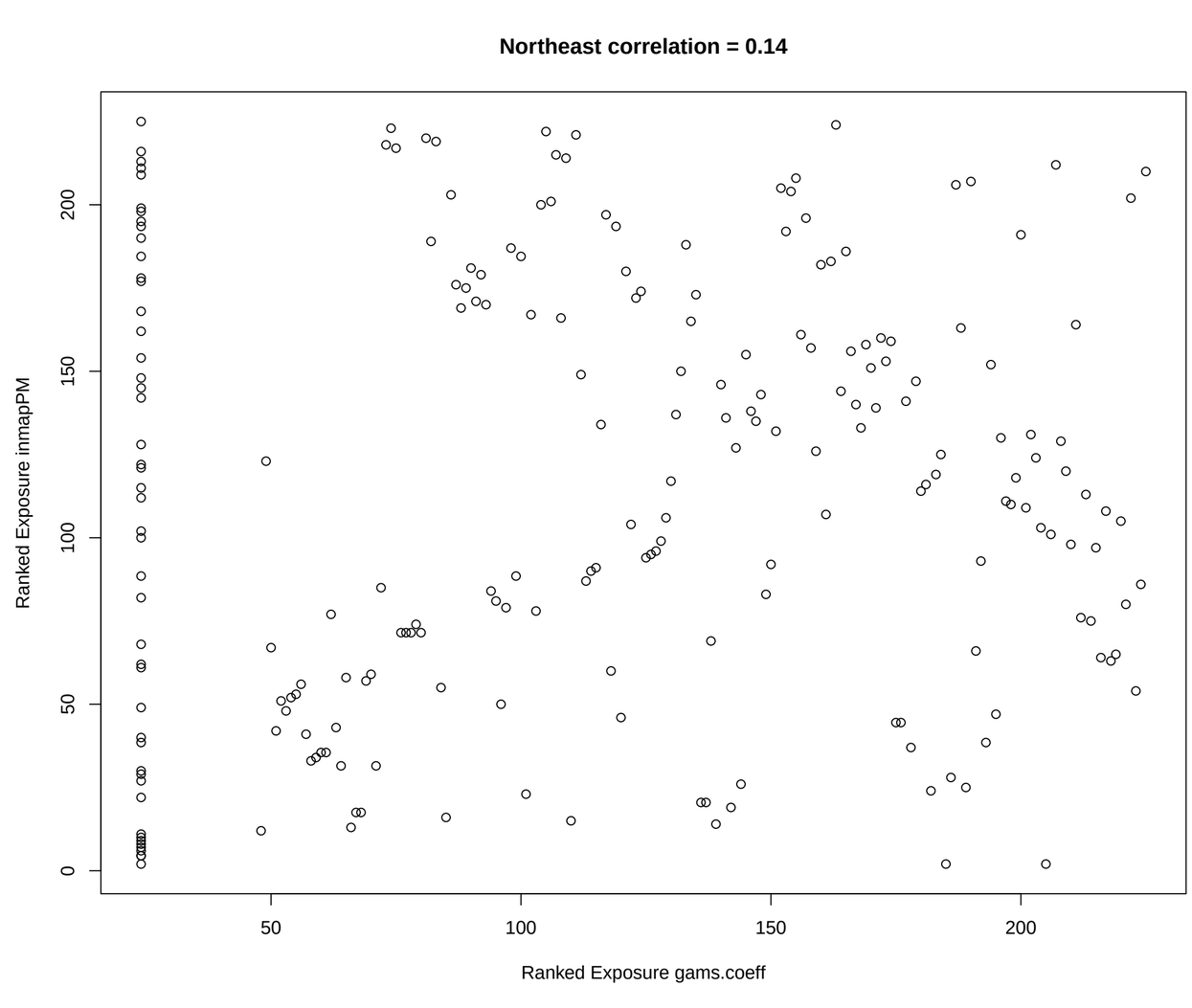

sum of gams.coeff summer 2005
Large coal power
Coal power plant
High−exposed loc
Low−exposed loca

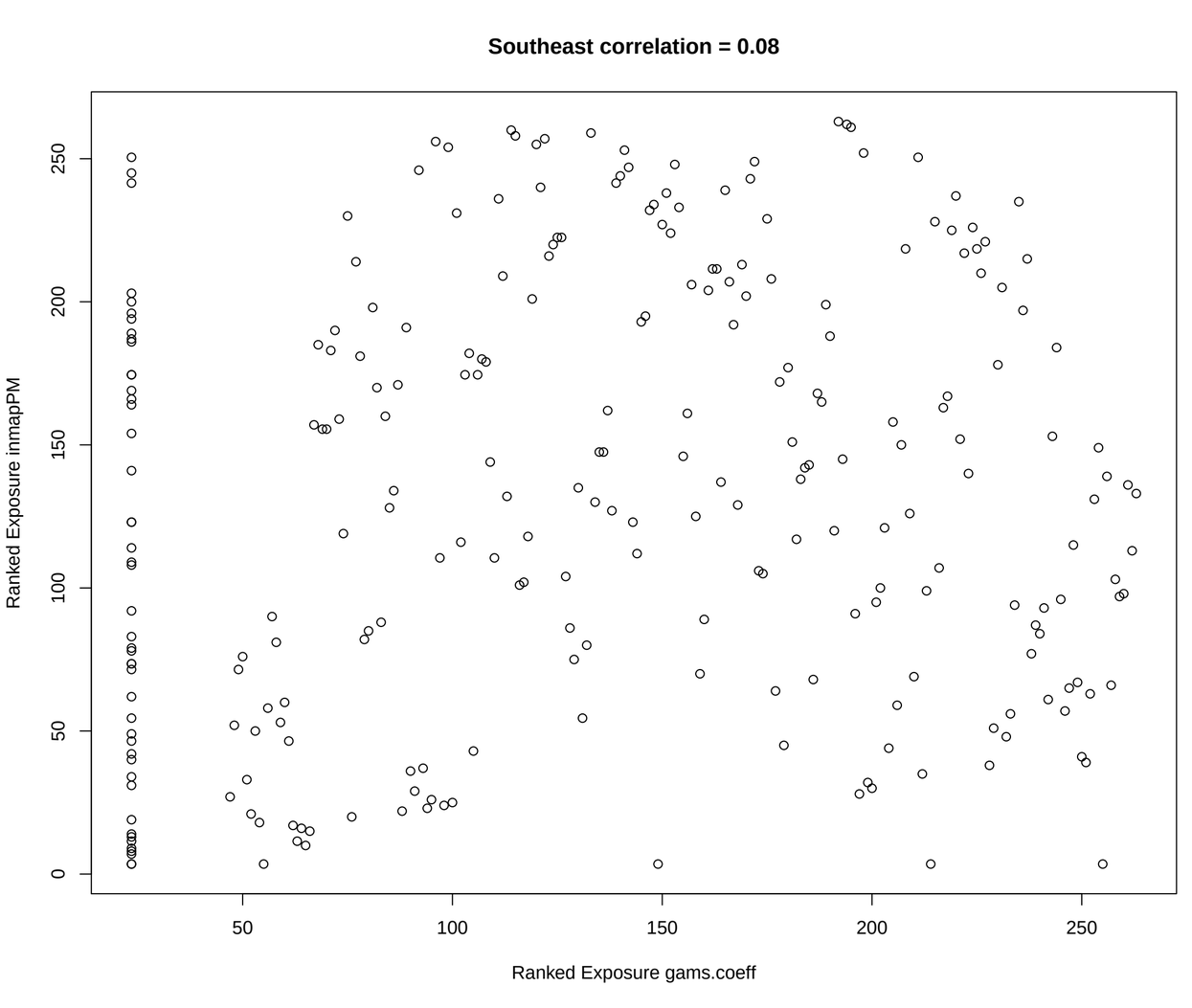

avgPM_decomposed75 summer 2005
Large coal power
Coal power plant
High−exposed loc
Low−exposed loca

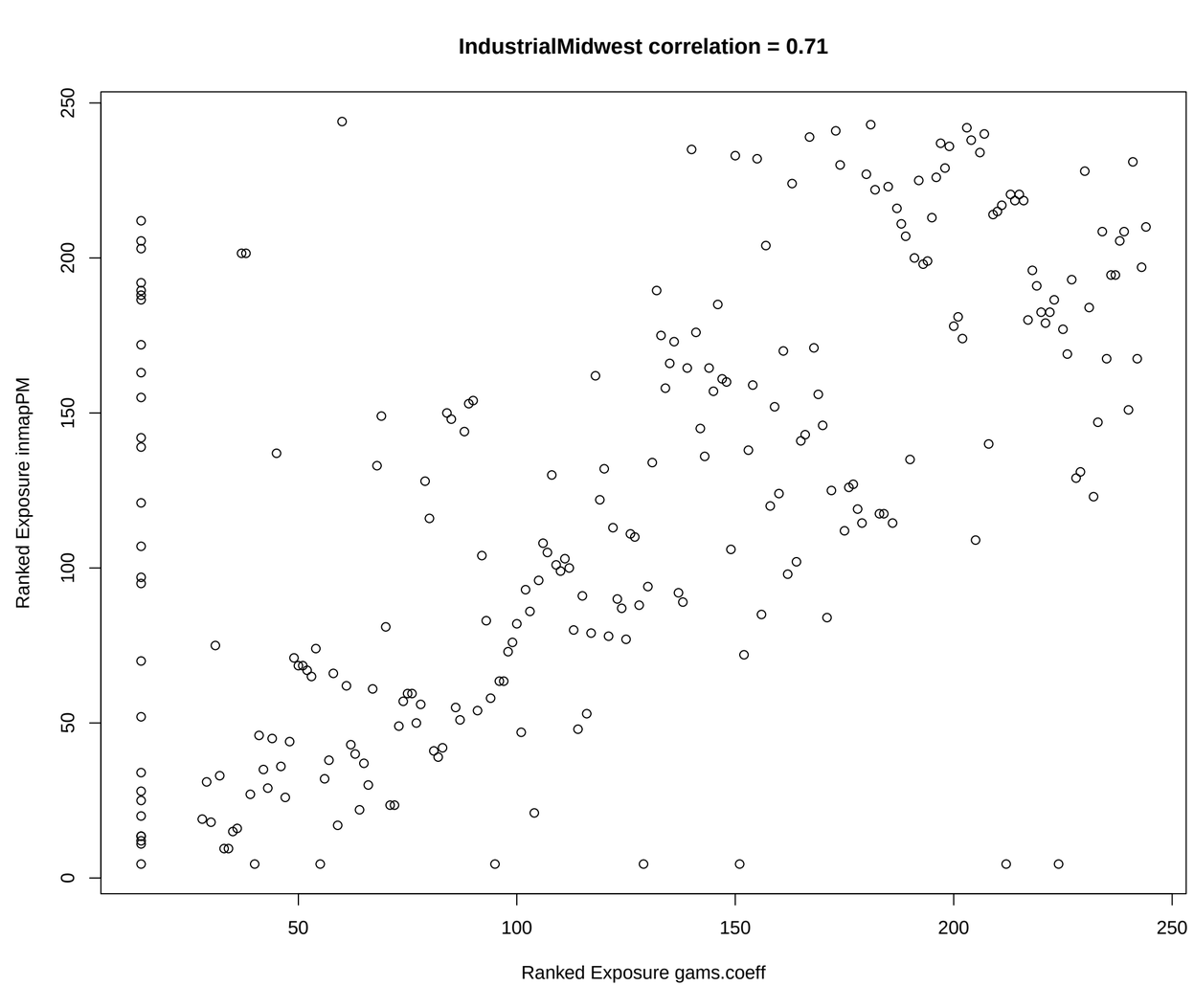

Northeast correlation = 0.55
Ranked Exposure avgPM
Ranked Exposure gams.coeff
0
50
100
150
200
50
100
150
200

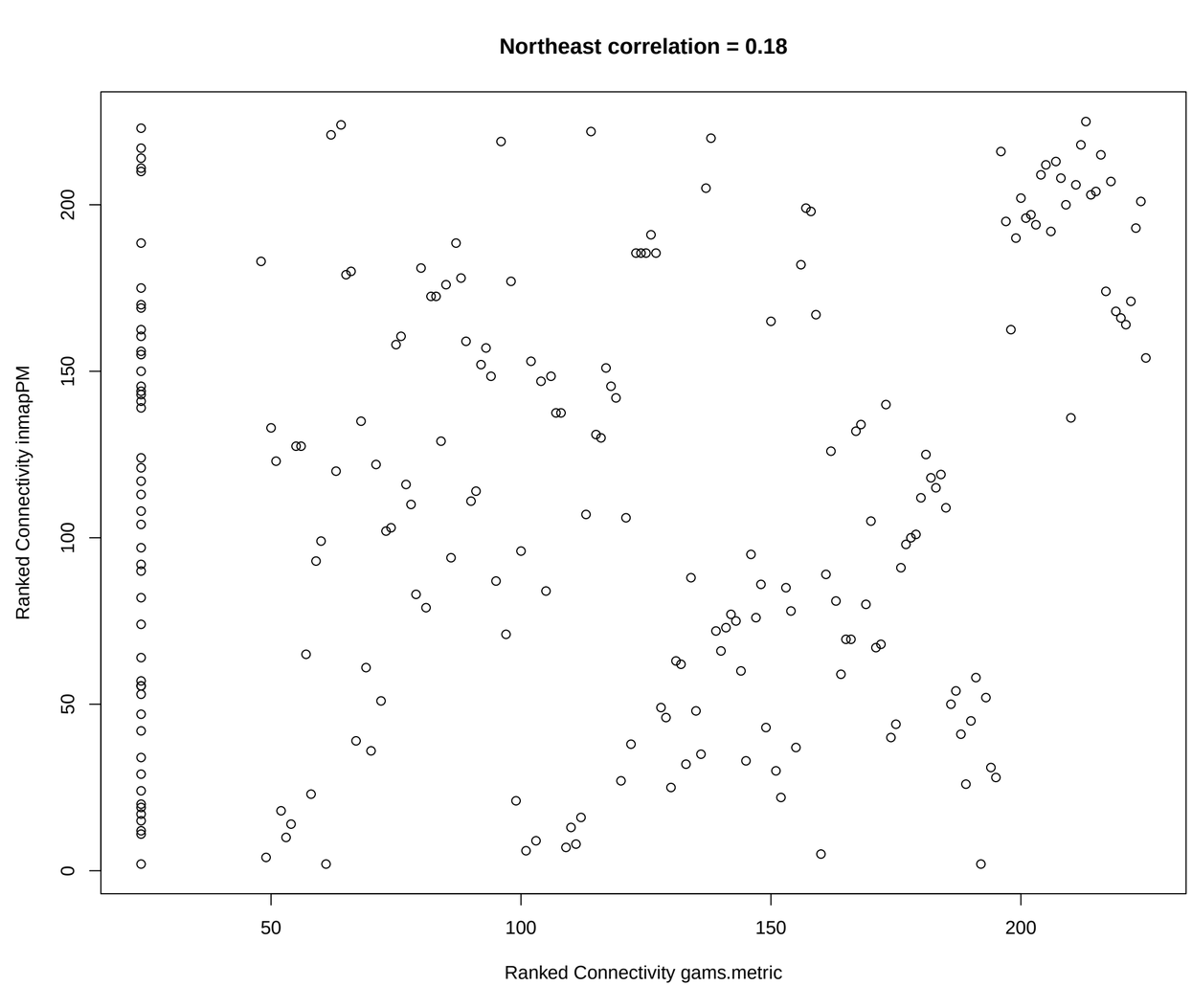

Southeast correlation = 0.53
Ranked Exposure avgPM
Ranked Exposure gams.coeff
0
50
100
150
200
250
50
100
150
200
250

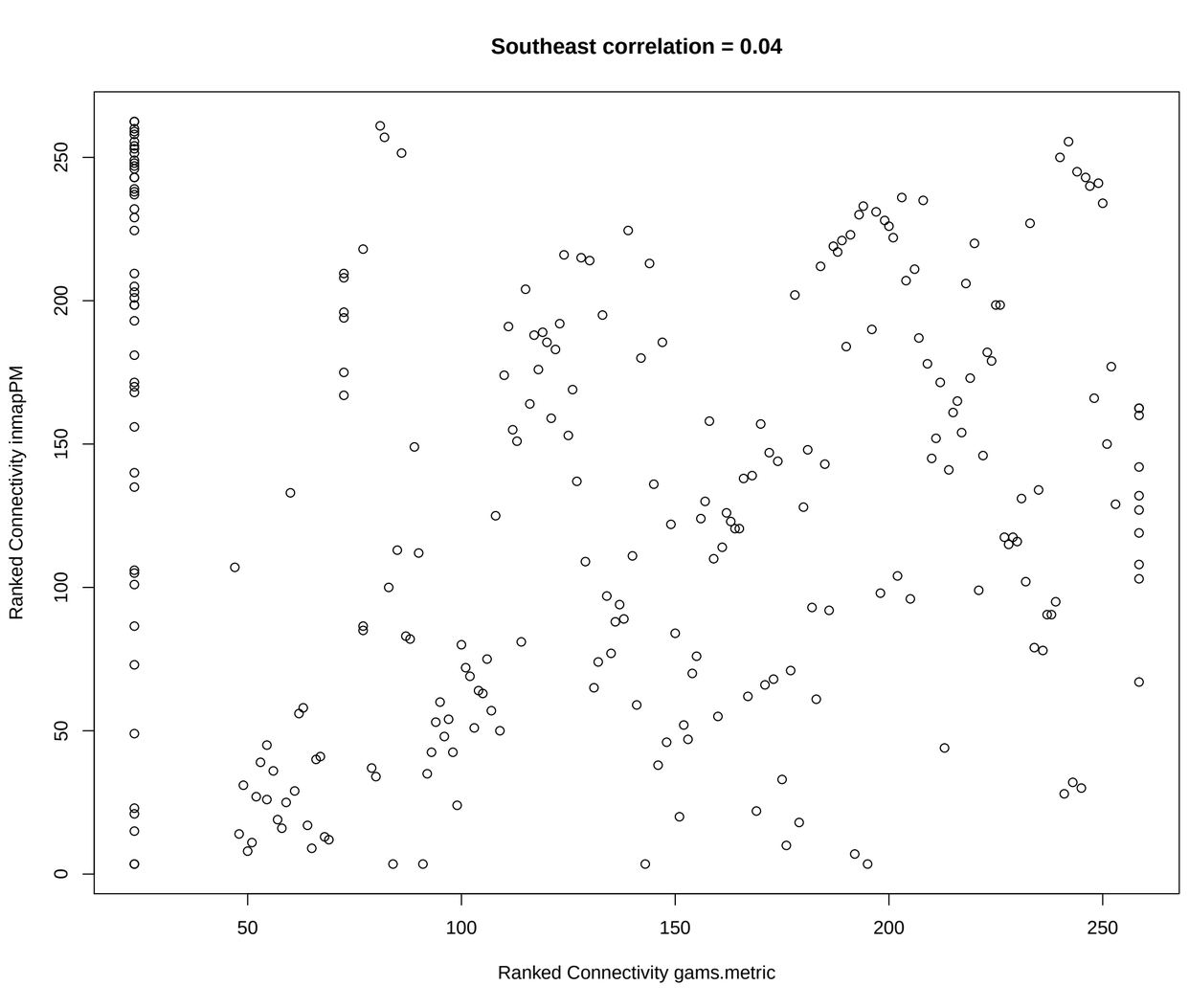

IndustrialMidwest correlation = 0.87
Ranked Exposure avgPM
Ranked Exposure gams.coeff
0
50
100
150
200
250

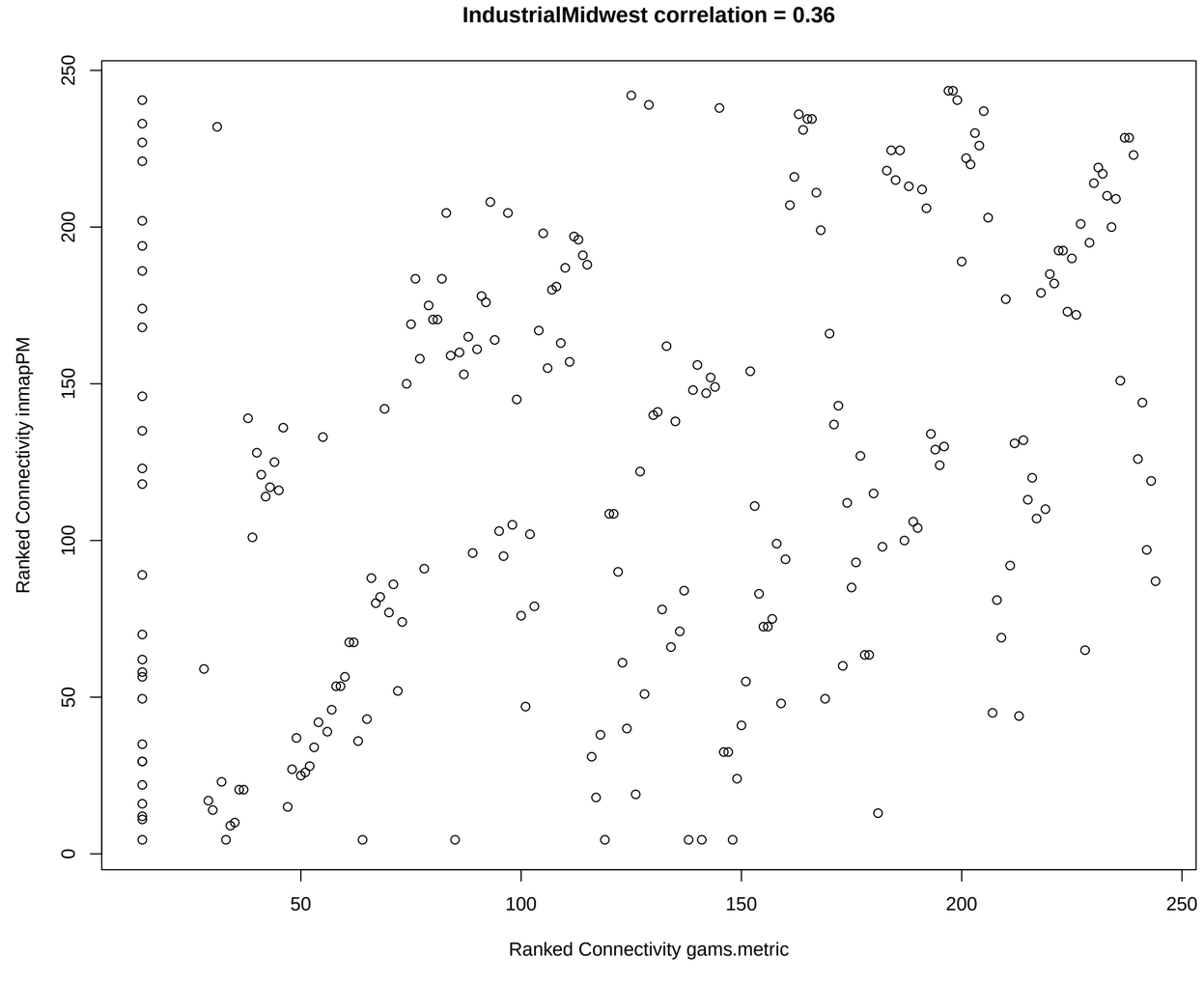

Northeast correlation = 0.14
Ranked Exposure inmapPM
Ranked Exposure gams.coeff
0
50
100
150
200
50
100
150
200


Southeast correlation = 0.08
Ranked Exposure inmapPM
Ranked Exposure gams.coeff
0
50
100
150
200
250
50
100
150
200
250


IndustrialMidwest correlation = 0.71
Ranked Exposure inmapPM
Ranked Exposure gams.coeff
0
50
100
150
200
250


Northeast correlation = 0.18
Ranked Connectivity inmapPM
Ranked Connectivity gams.metric
0
50
100
150
200
50
100
150
200


Southeast correlation = 0.04
Ranked Connectivity inmapPM
Ranked Connectivity gams.metric
0
50
100
150
200
250
50
100
150
200
250


IndustrialMidwest correlation = 0.36
Ranked Connectivity inmapPM
Ranked Connectivity gams.metric
0
50
100
150
200
250