AQS ozone, annual

No cut-off
Network-wide, MB is +3.1 ppb (out of 31 ppb, for a NMB of +10%) and ME is 13 ppb (NME = 40%)

60 ppb cut-off
Network-wide, MB is -1.9 ppb (out of 69 ppb) and ME is 12 ppb. MFB is -5.8% and MFE is 19%

Bias and error are smallest for coastal SEMAP states (MFB = -2.0%; MFE= 18%) and larger for interior SEMAP (KY, TN and WV; MFB = -9.3% and MFE = 20%) or neighboring states. In some SEMAP states the bias is positive, most notably in GA (MB +3.6 ppb; MFB +2.2%).

AQS 8-hr maximum ozone

No cut-off, annual
Network-wide MB is +7.1 ppb (out of 47 ppb). MFB is +12%. ME is 11 ppb and MFE is 23%

60 ppb cut-off
Annual, network-wide MB is +1.8 ppb (out of 69 ppb). MFB is +1.4%. ME is 9.3 ppb and MFE is 13%

The bias and error are smallest for the interior SEMAP states and larger for coastal SEMAP and neighboring states.

In WW, TN, KY, MBs are -1.3 to +1.0ppb and MEs are 7.5 to 9.1 ppb (MFEs are 11% to 13%). In VA and GA bias and error are the largest. MBs are +5.6 and +6.9 ppb (MFBs are +6.6 and +8.0%) and MEs are 10 and 11 ppb (MFEs are 14 and 15%)

In Georgia, August monthly MB is +18 ppb (out of 73 ppb; MFB is +21%) and ME is 19 ppb (MFE is 23%)

Site 130590002 has observations on 14 days in August. MB is +25 ppb (out of 70 ppb; MFB = +30%) and ME is 25 ppb (MFE = 30%).
AQS 24-hrPM$_{2.5}$

Network-wide, annual MB is +1.5 ug/m$^3$ (out of 13 ug/m$^3$; MFB is 8%) and ME is 5.5 ug/m$^3$ (MFE = 38%).

CSN Total PM$_{2.5}$

Network-wide, annual MB is +0.41 ug/m$^3$ (out of 15 ug/m$^3$ NMB is 2.7%) and ME is 6.0 ug/m$^3$ (NME = 40%)

MB is negative (about 3 mg/m$^3$; MFB is about -20%) for SEMAP states and positive for neighboring states (MB is +2.2 mg/m$^3$ out of 15 ug/m$^3$)

Annual bias is largest in West Virginia (MB = -5.8 ug/m$^3$; MFB = -37%).

In Georgia, annual MB is -2.9 ug/m$^3$ (out of 17 ug/m$^3$; MFB is -16%) and ME is 5.5 ug/m$^3$ (MFE = 34%)

The largest monthly MBs are in May (recall that FL-GA fires were in May) and in Alabama (-14 ug/m$^3$ out of 27 ug/m$^3$), Florida (-14 ug/m$^3$ out of 23 ug/m$^3$) and Georgia (-13 ug/m$^3$ out of 24 ug/m$^3$).

Bias is high in NC in August. MB is -11 ug/m$^3$ (out of 26 ug/m$^3$; MFB is -54%)

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NADP

Network-wide, annual
Precipitation MB is -0.37 mm (NMB = -2%) and ME is 12.4 mm (NME=63%)
Sulfate deposition MB is -0.06 kg/ha (NMB = -18%) and ME is 0.2 kg/ha (NME=60%)
Nitrate deposition MB is +0.34 kg/ha (NMB = -150%) and ME is 0.4 kg/ha (NME=170%)
Ammonium deposition MB is -0.02 kg/ha (NMB = -30%) and ME is 0.05 kg/ha (NME=64%)

By State, annual
Precipitation MB ranges from -3.5 mm in Mississippi (NMB=-17%) to +5.0 mm in West Virginia (NMB=+22%)
Sulfate deposition MB ranges from -0.09 kg/ha in Virginia (MFB=-29%) to 0.05 kg/ha in West Virginia (MFB=+4.8%)
Nitrate deposition MB ranges from +0.18kg/ha in Virginia (NMB=+82%) to 0.63 kg/ha in Florida (NMB=+350%)
Ammonium deposition MB ranges from -0.02kg/ha in Kentucky (MFB=-16%) to 0.00 kg/ha in West Virginia (MFB=-10%)

Florida by Month
Nitrate Deposition MFB is over +115% in June-and 135% in July and August when precipitation MFB is +55% to +65%.

Florida by Site in August
Nitrate Deposition MFB is +175% at FL14 where Precipitation MFB is +115% at FL14