

Lower San Diego River Dissolved Oxygen Levels

SDRPF RiverWatch

June 19, 2015

Chart 1 - LSDR Dissolved Oxygen Levels (2005-2015)

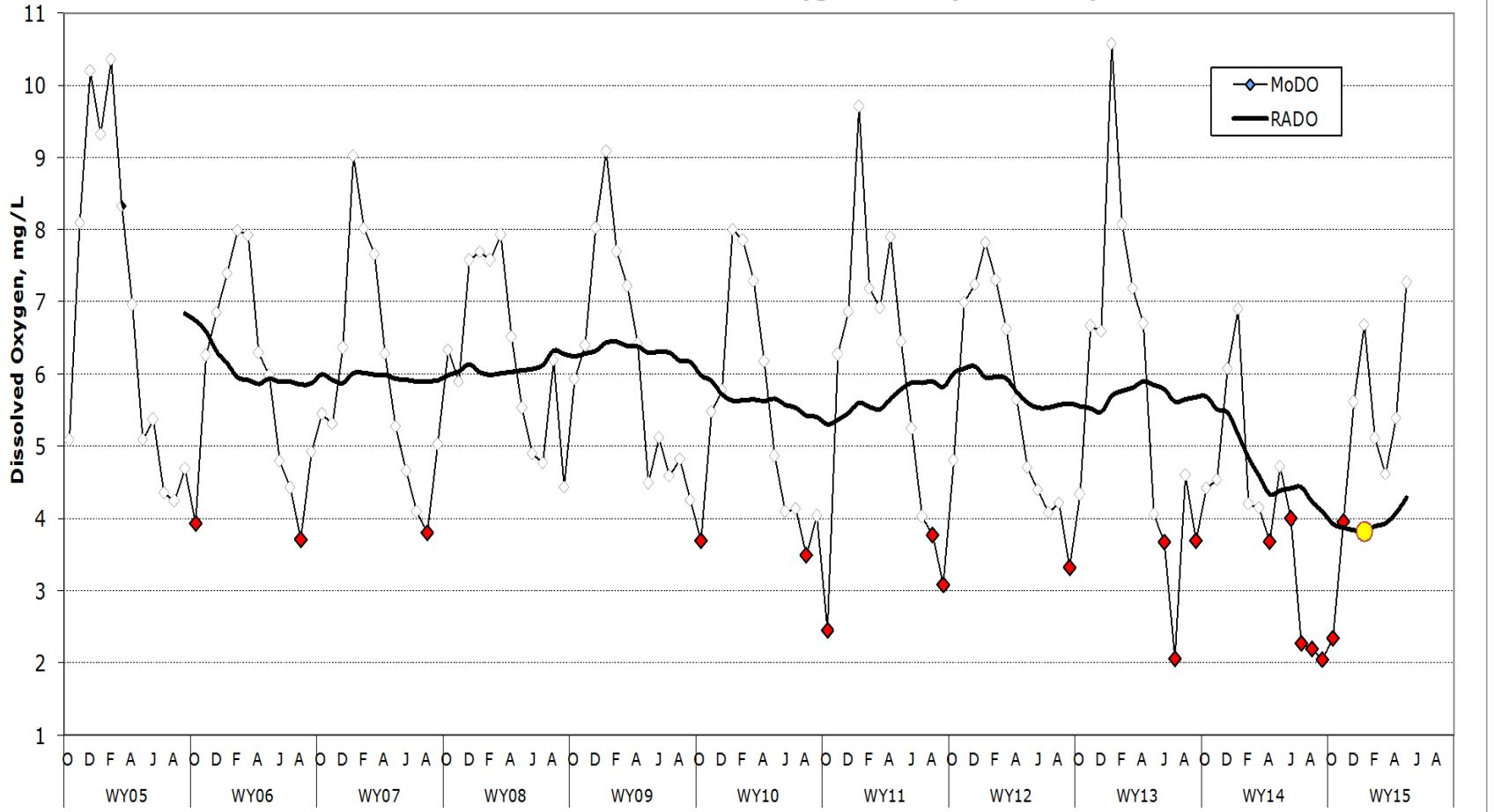


Chart 2 - LSDR Running Average (12mo) DO levels at Specific Monitoring Sites

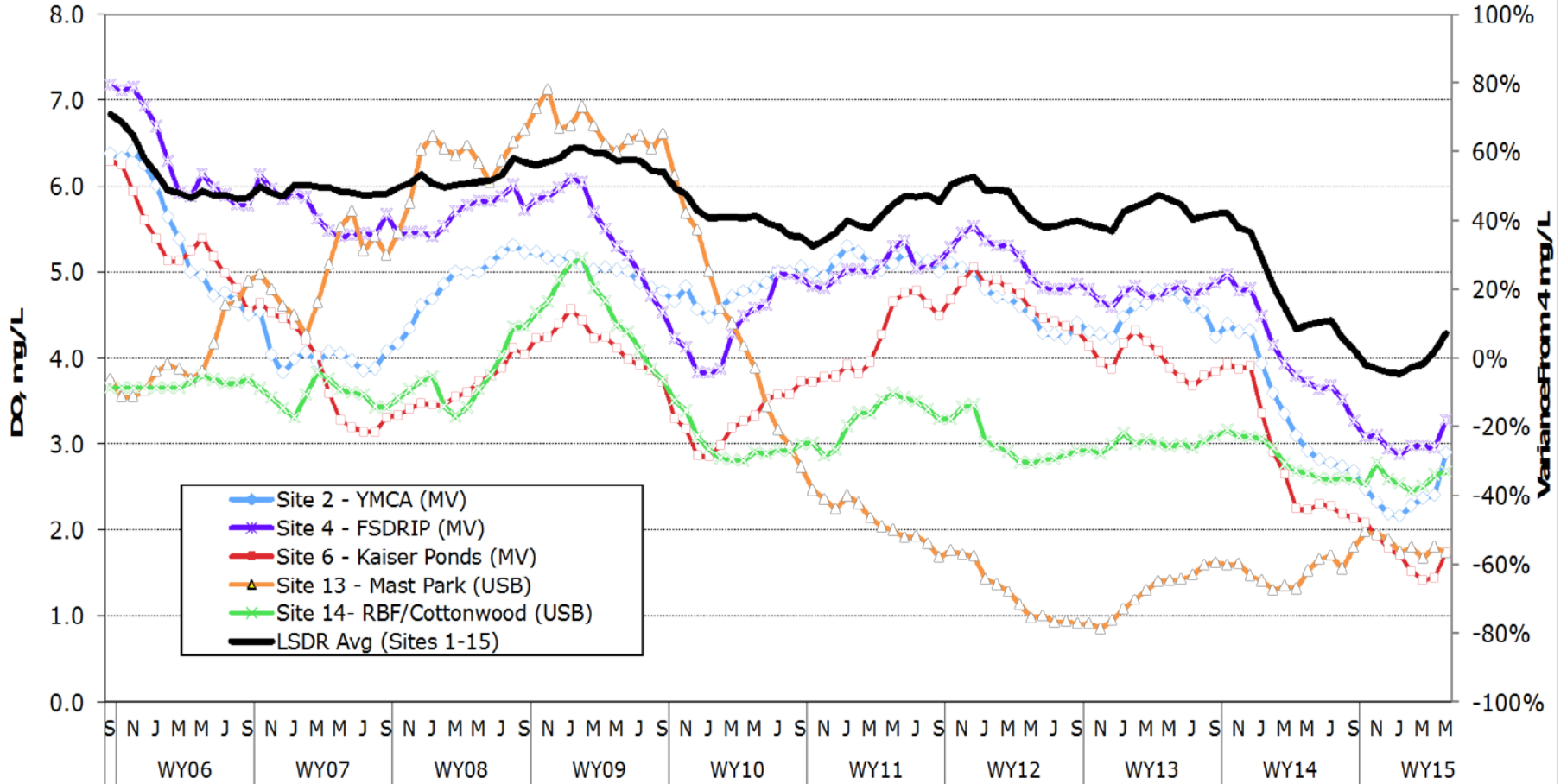


Chart 2 - LSDR Mo. & RA DO By Section

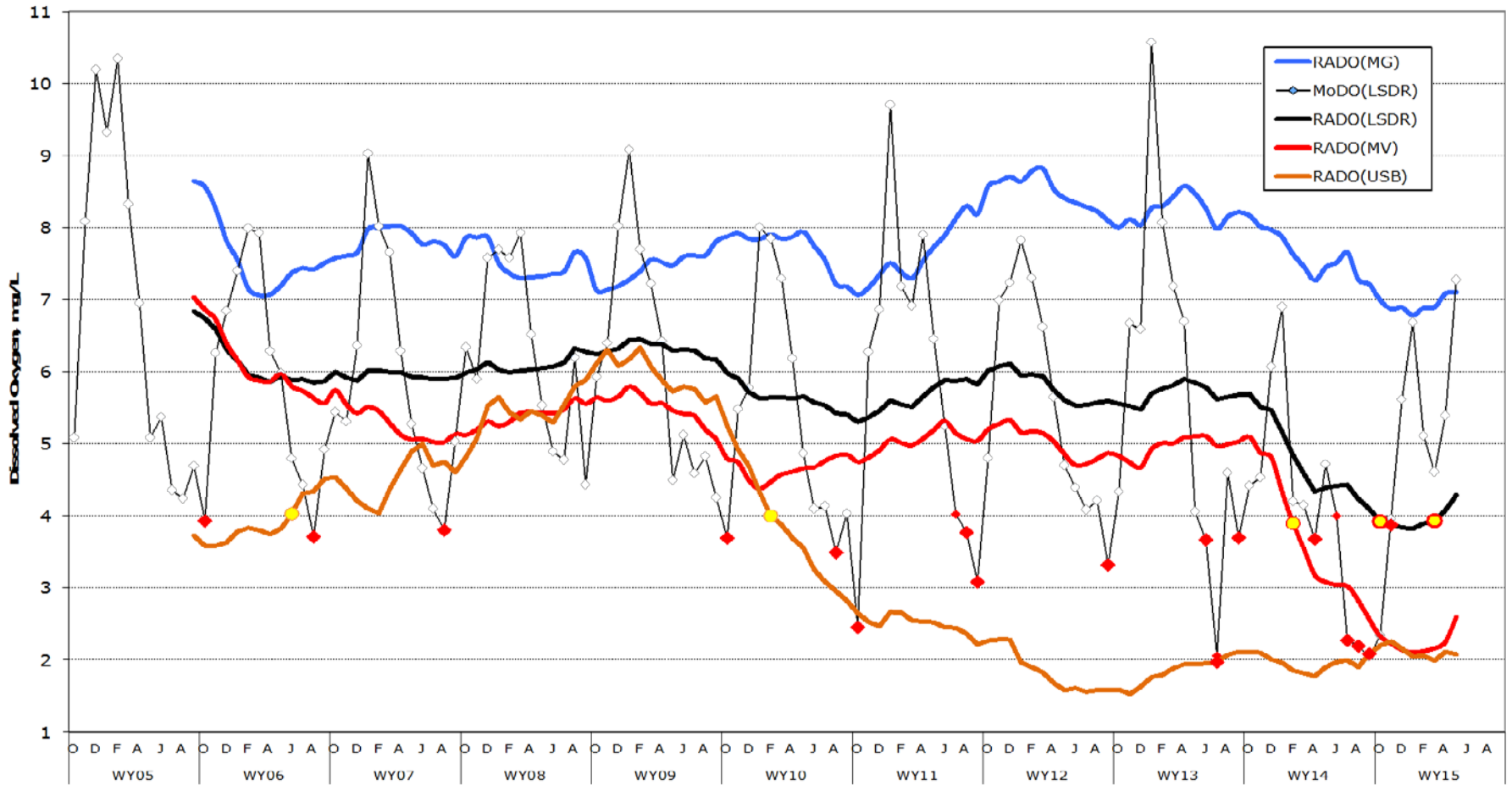
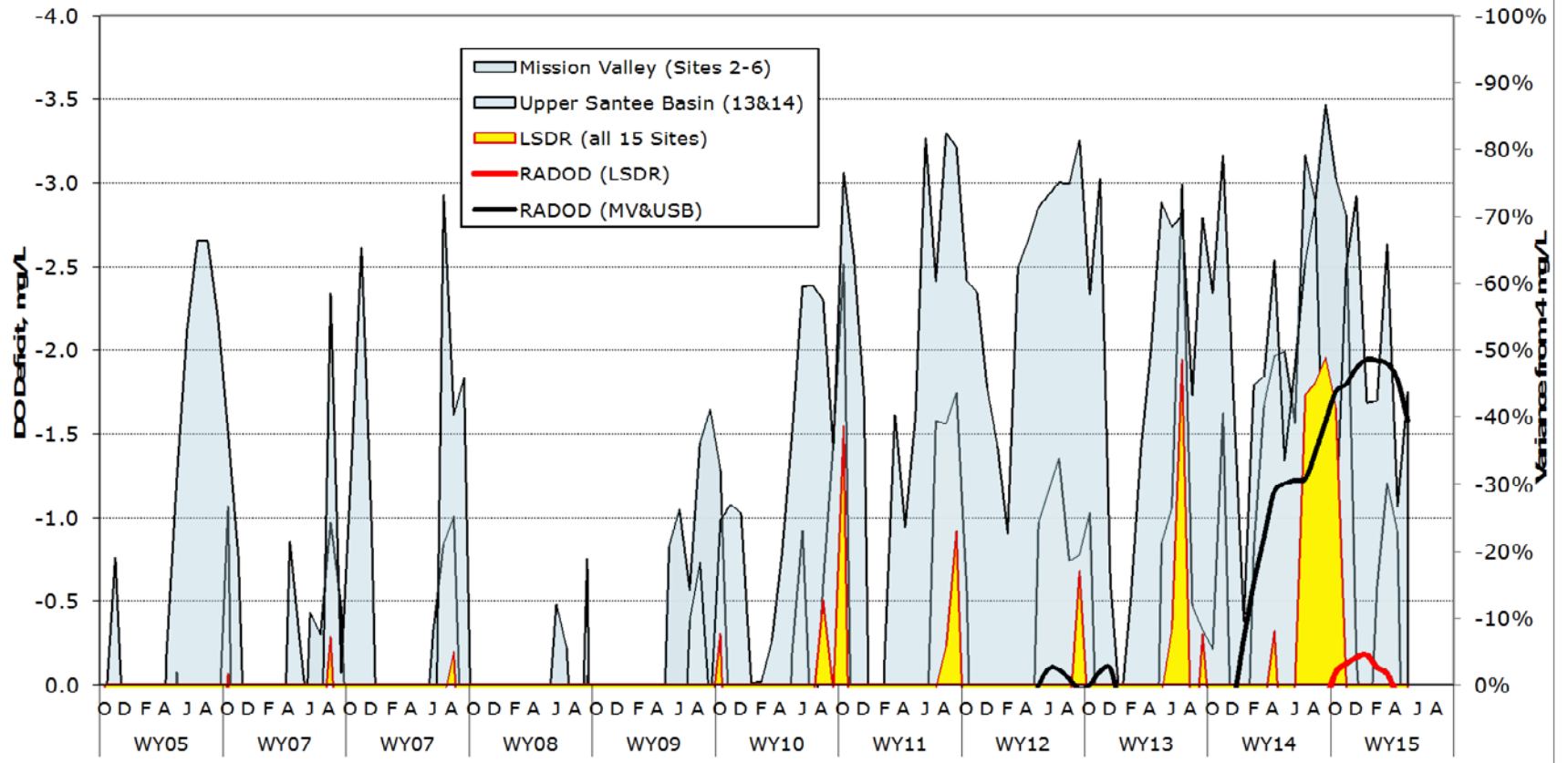


Chart 3 - LSDR DO Deficits (Inverted) by Reach



Variance in DO

Chart 4 -Variance in RADO/DOD Above/Below 4 mg/L

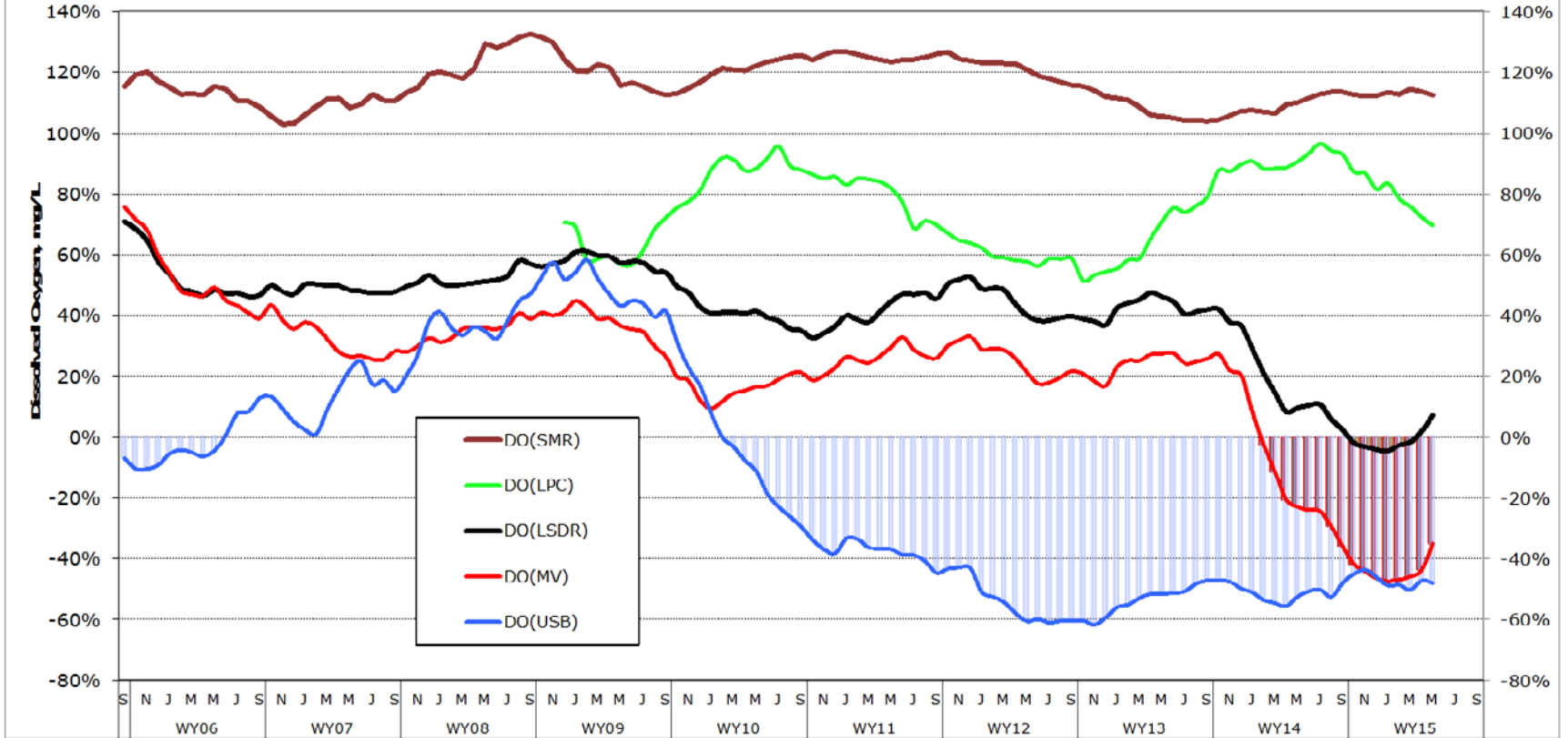
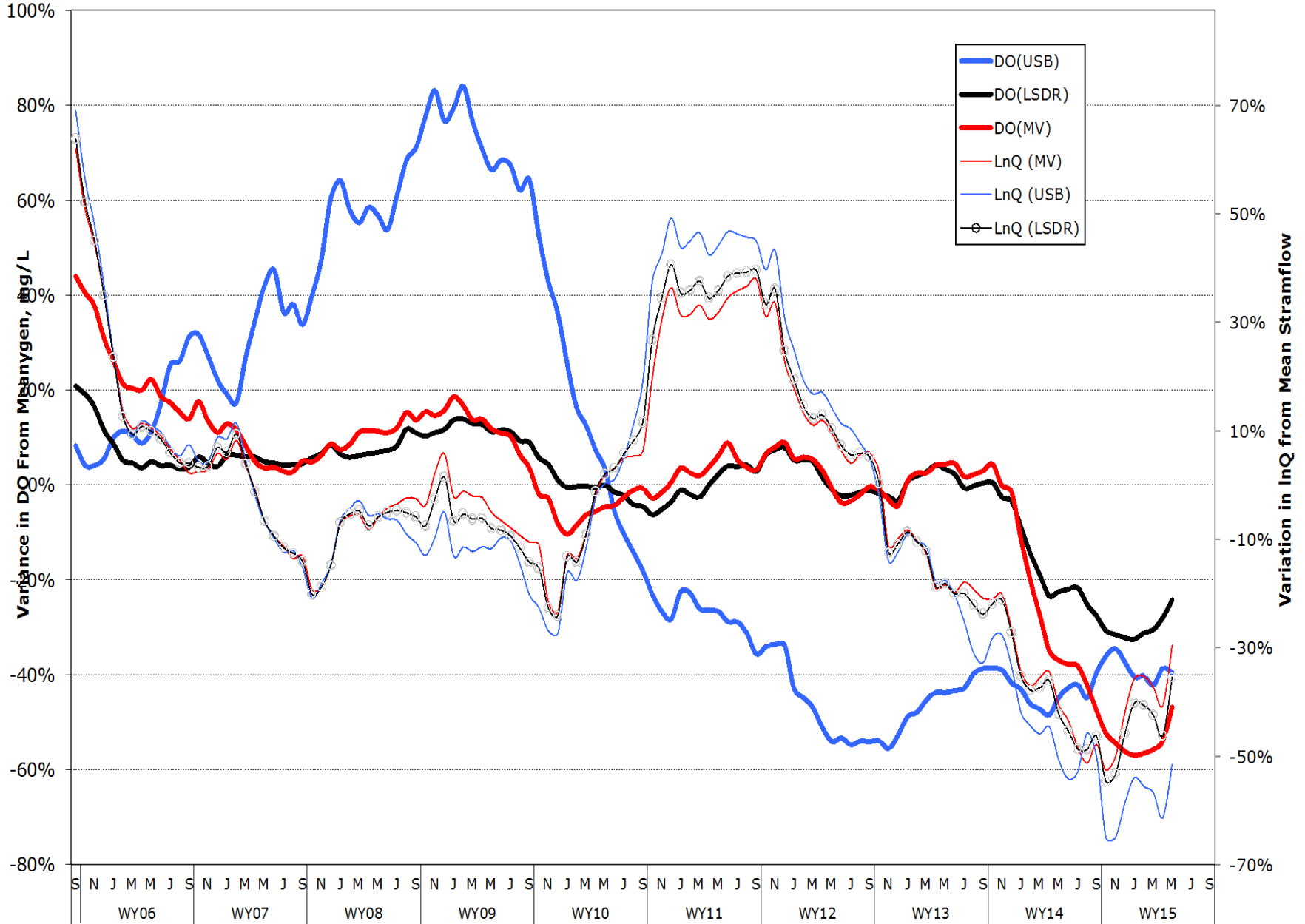


Chart 5 - Variance in LSDR RA DO & RA InQ



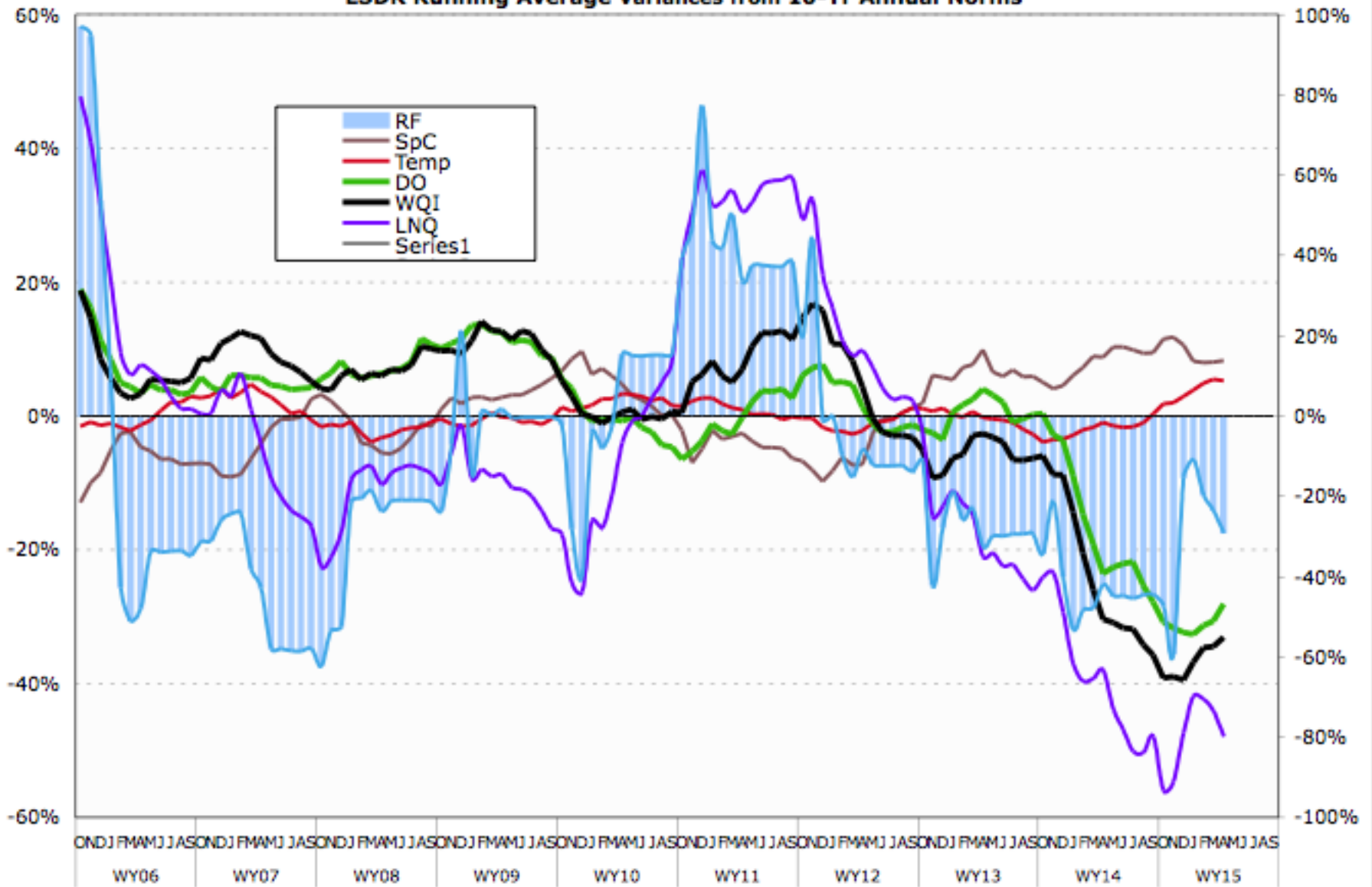
CORRELATIVES

- Less Rainfall = Less Stream Flow = Less Flushing/Scouring = Greater Invasive Aquatic Plant Growth/Death = Greater Organic Load/Detritus = More Oxygen Demand = **Less Dissolved Oxygen** (More DO Deficit) = Greater Eutrophication = More “Stink” = Poorer Water Quality = Less Happy People
- $RF \downarrow = \downarrow \text{Flow/Flush/Scour} = \uparrow \text{Detritus} (\uparrow \text{SOD}) = \downarrow \text{DO} (\uparrow \text{DOD}) = \uparrow \text{Eutrophication} = \downarrow \text{WQ}$

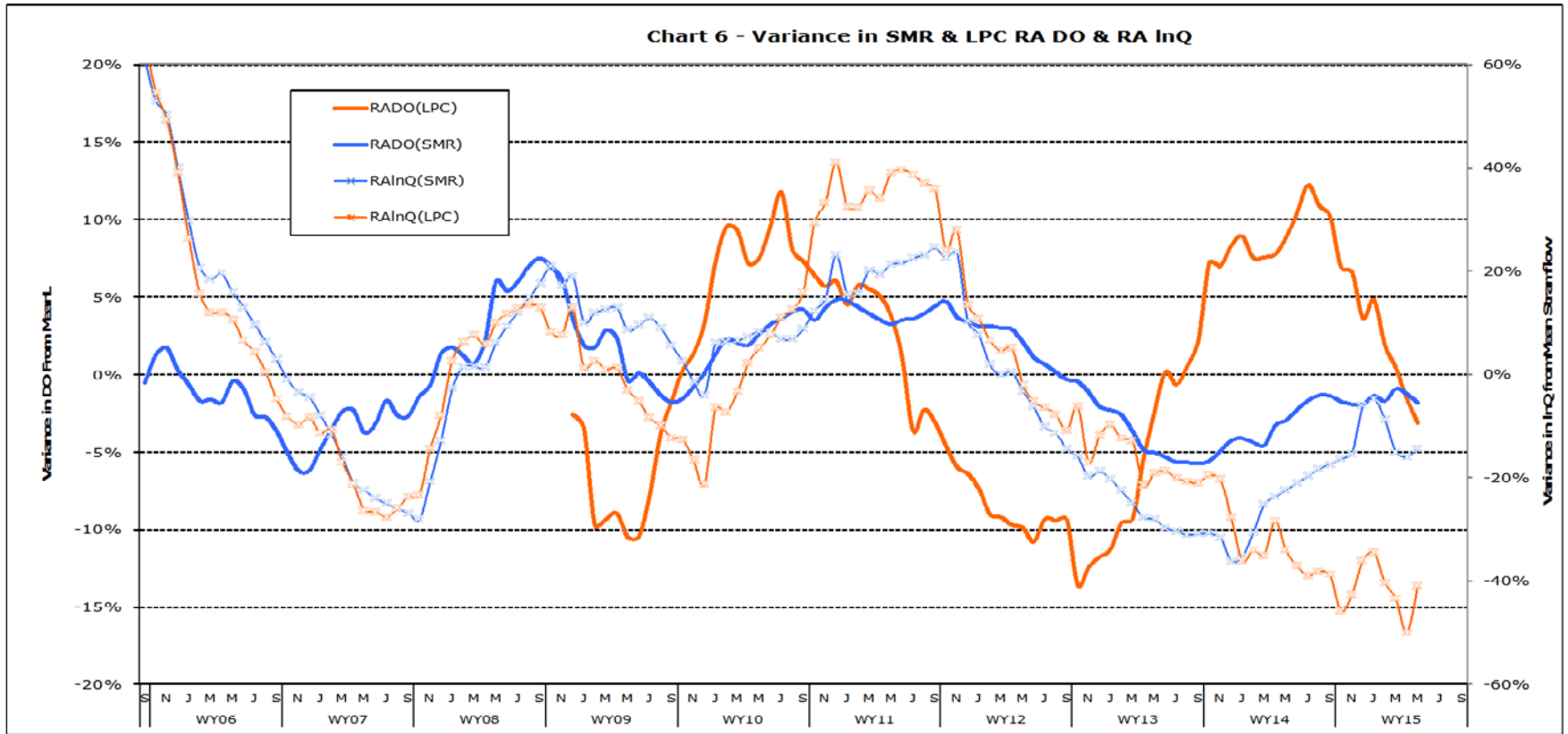
Primary Cause of DOD



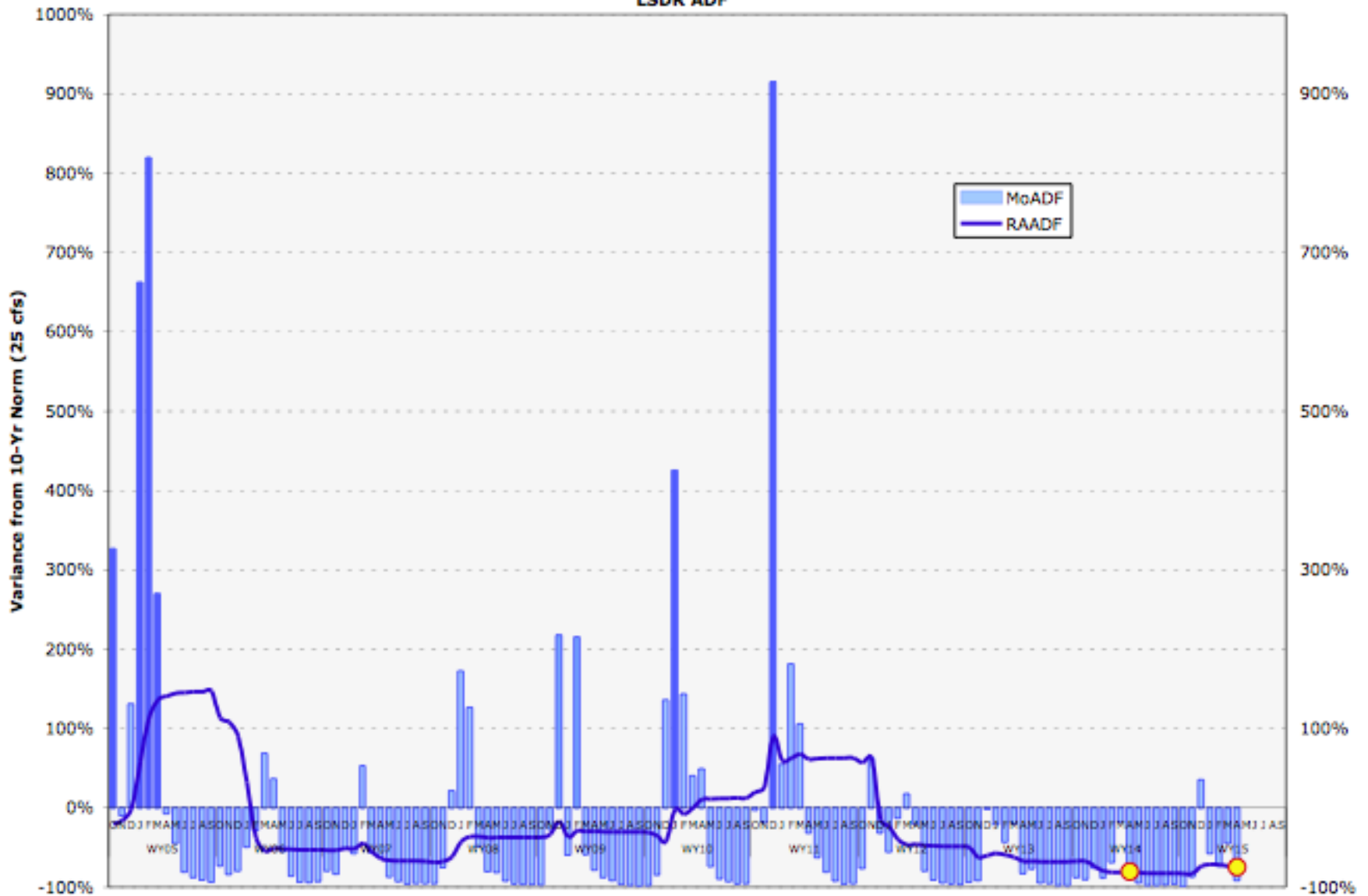
LSDR Running Average Variances from 10-Yr Annual Norms



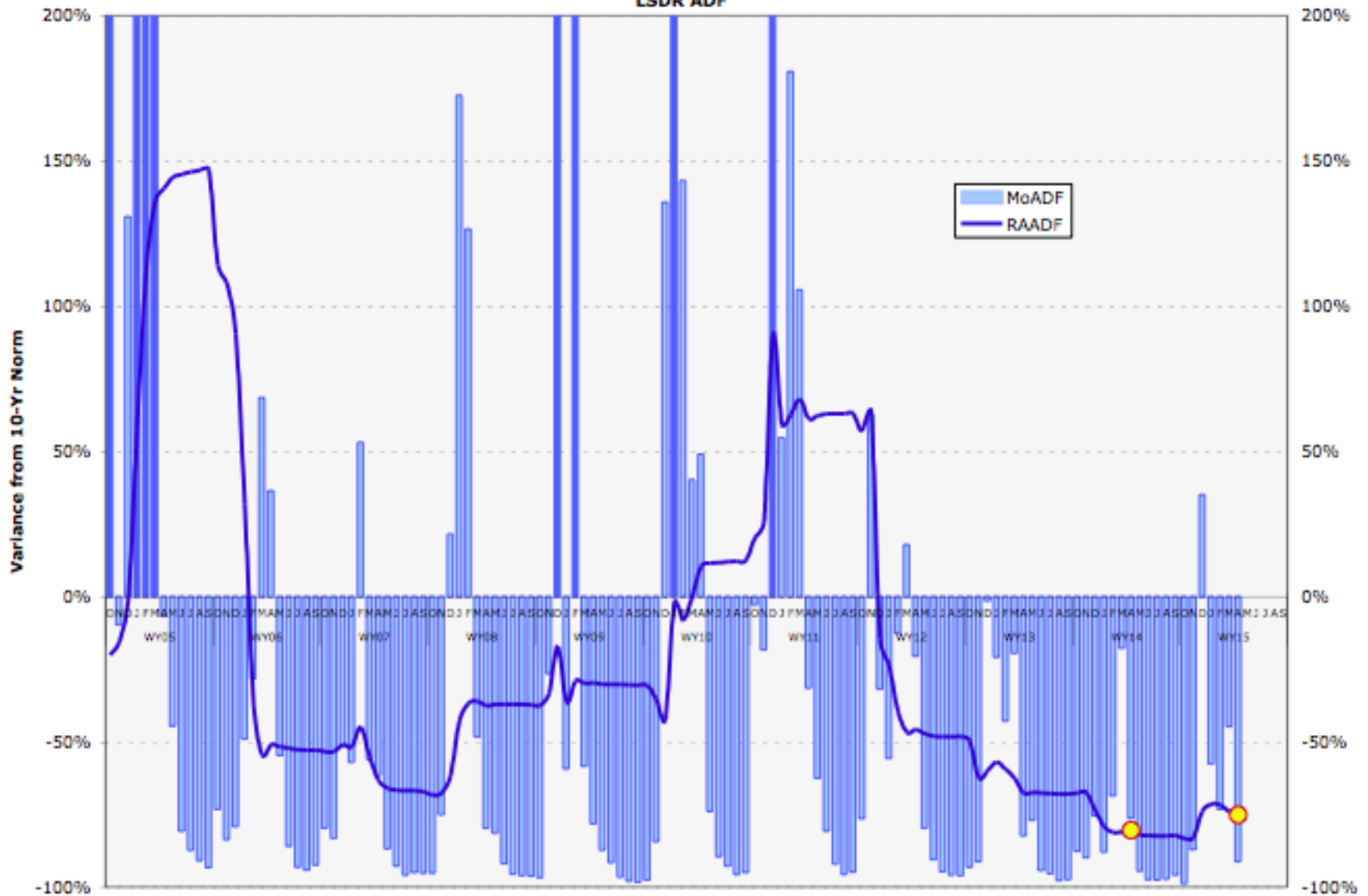
DO & Flow Variance-Others



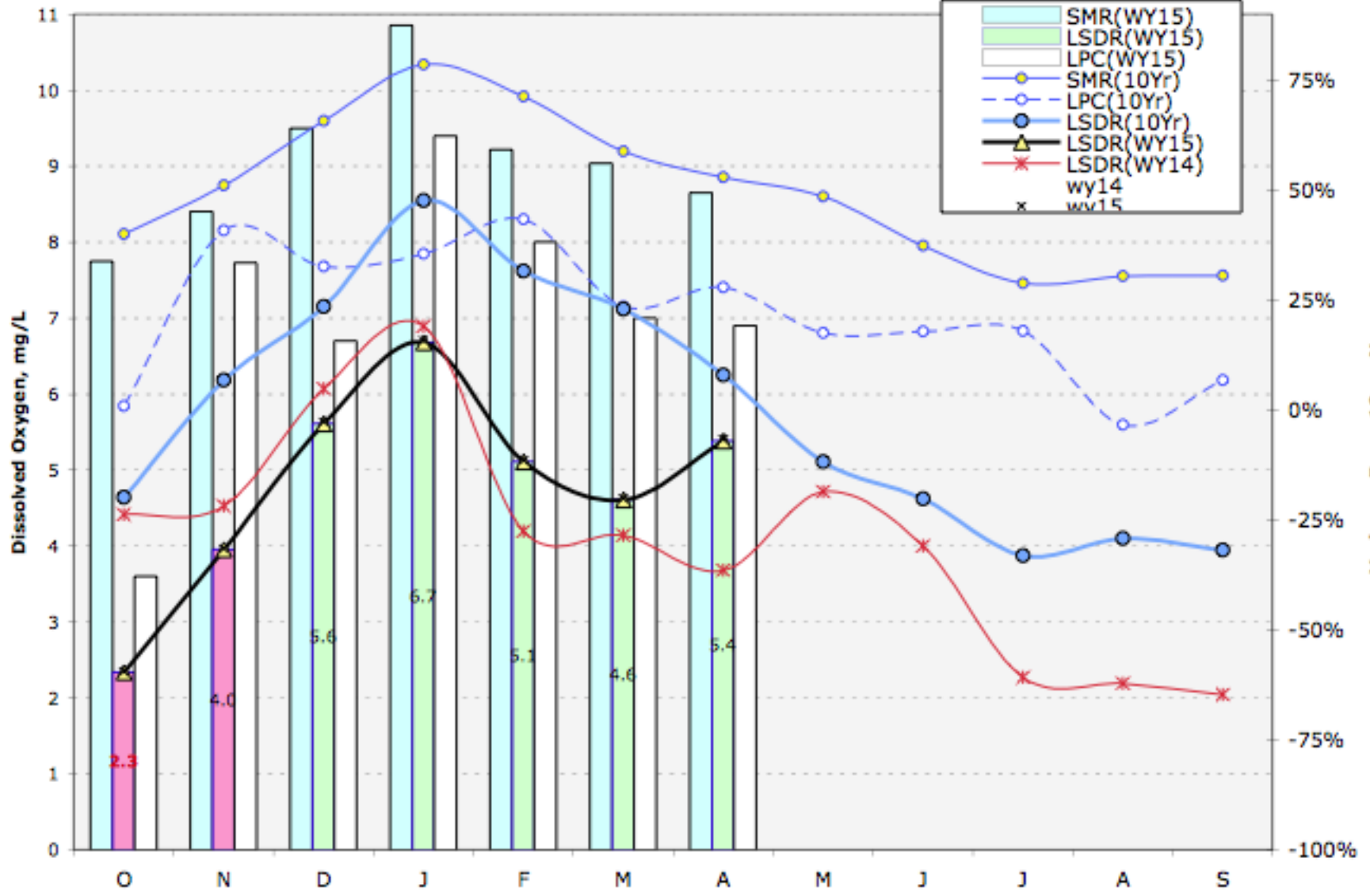
LSDR ADF



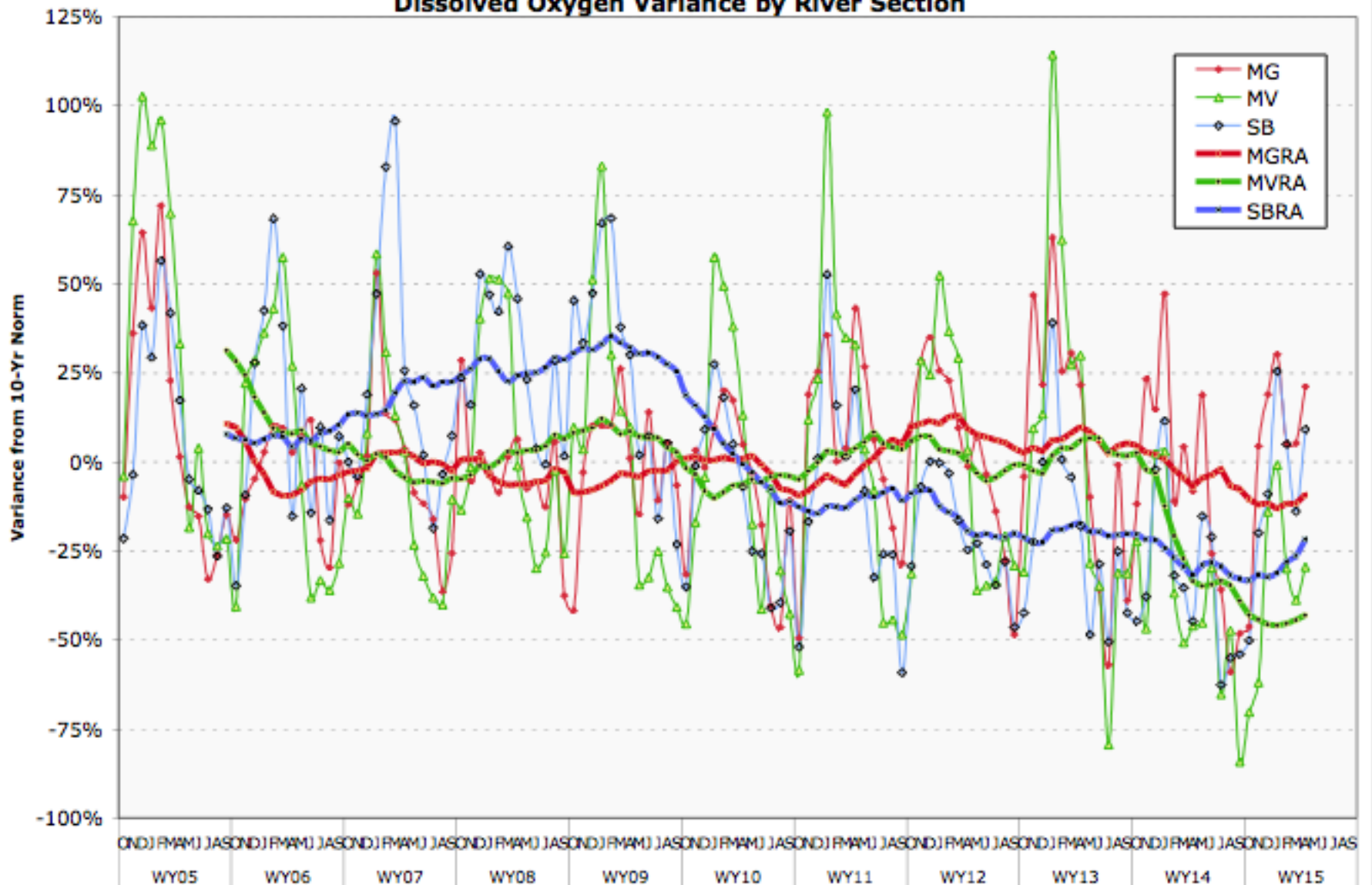
LSDR ADF



LSDR, SMR & LPC DO Levels



Dissolved Oxygen Variance by River Section



LSDR Dissolved Oxygen Variance from Norm

