

# Science Assessment to Support an Illinois Nutrient Reduction Strategy

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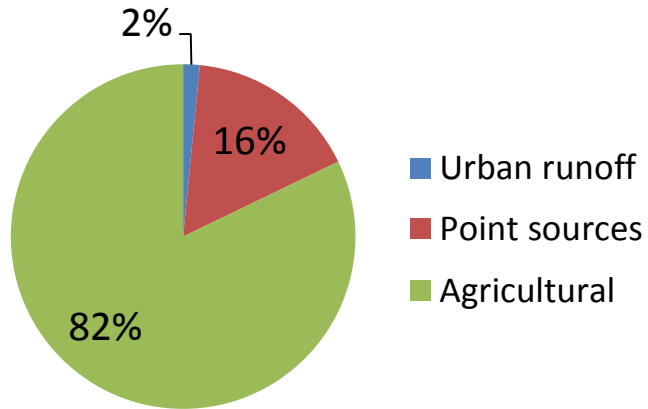


# Riverine N and P Fluxes

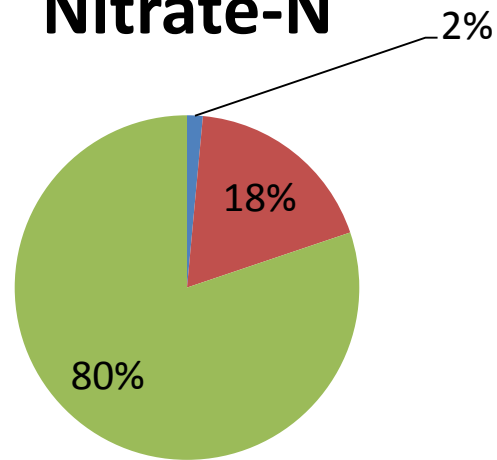
	Water	Nitrate-N	Total N	DRP	Total P
	$10^{12} \text{ ft}^3 \text{ yr}^{-1}$	million lb N or P $\text{yr}^{-1}$			
David & Gentry (2000)	1.6		538		31.3
1980-1996	1.70	404	527	15.4	34.0
1997-2011	1.72	410	536	18.5	37.5
Urban runoff		6.0	8.3		1.5
Point sources		75.2	87.3		18.1
		Percent of 1997-2011 load			
Point sources		18.4	16.3		48
David & Gentry (2000)			16		47

# Illinois Nutrient Sources

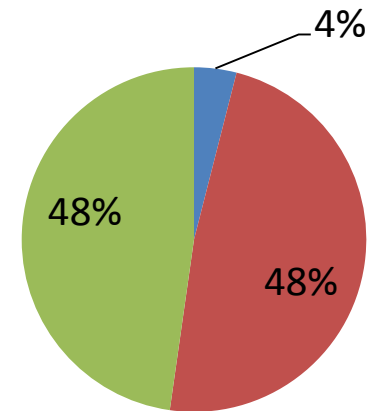
## Total N



## Nitrate-N



## Total P



# Point Source P Estimates

Point Source Limit (mg P/L)	million lb of P reduced	% of target (18.8 million lb P)
All majors to 1 mg/L standard (0.7 mg P/L actual)	10.4	55
Top 20 majors to 0.7	6.1	32
Top 30 majors to 0.7	7.0	37
Top 50 majors to 0.7	7.8	41
All majors to 0.3	13.1	70
Top 20 majors to 0.3	8.0	42
Top 30 majors to 0.3	8.9	47
Top 50 majors to 0.3	9.9	52

Total P from point sources currently ~18.1 million lb P per year