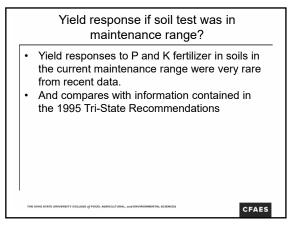
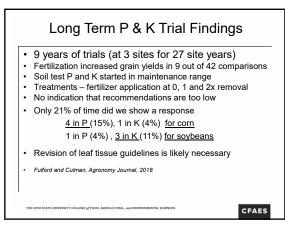
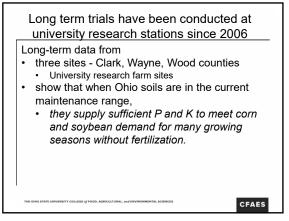


Slightly different recommendation philosophy - 2020

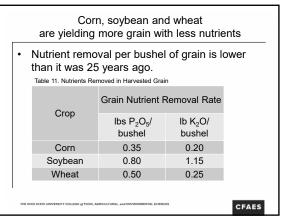




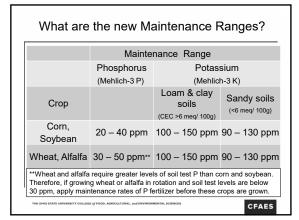


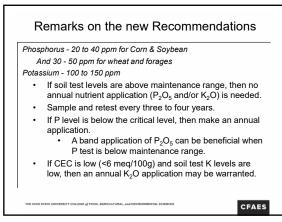


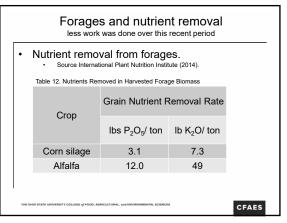


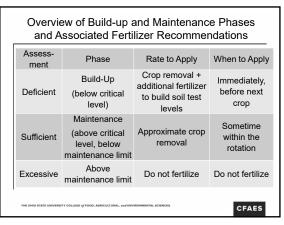


Nutrient	Current	1995 Tri-	
	Data	State	% decrease
Corn			
P_2O_5	0.35	0.37	5%
K ₂ O	0.20	0.27	26%
Soybean			
P_2O_5	0.80	0.80	
K ₂ O	1.15	1.4	18%
Wheat			
P_2O_5	0.50	0.63	21%
K ₂ O	0.25	0.37	32%



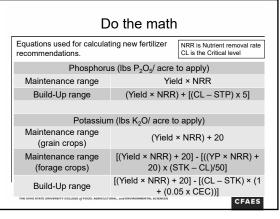




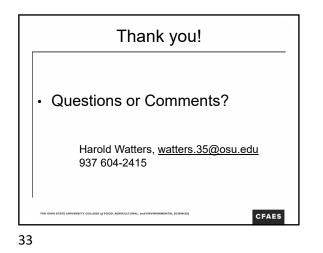


Recommended fertilizer rate when soil test P and K are in the maintenance range for grains. Recommended Fertilizer Rate Yield Crop lb K₂O/ acre (bushel/ acre) lbs P₂O₅/ acre Corn Soybean Wheat

Crop	Yield	Recommended Fertilizer Rate		
	(tons/ acre)	lbs P ₂ O ₅ / acre	lb K ₂ O/ acre	
Corn Silage	20	62	166	
	25	78	203	
	30	93	239	
	35	109	276	
Alfalfa	4	48	216	
	6	72	300	
	8	96	300	
	10	120	300	



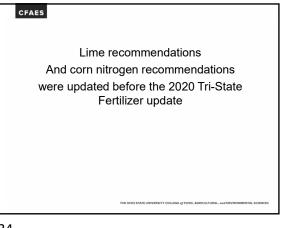
32



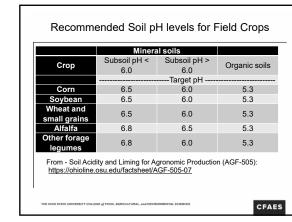
pH and Lime recommendations

· Updates were made earlier and follow

state lime regulations



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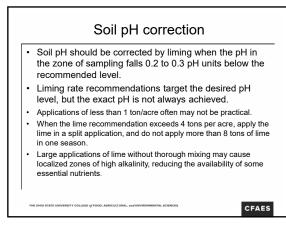


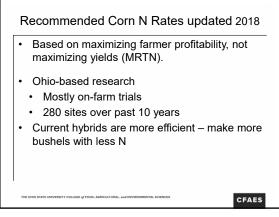
CFAES



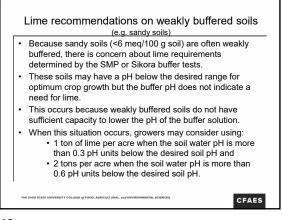
for Ohio

	TNP (%)	Fineness % passing mesh size				Water (%)	ENP (lbs/ton)
Grade							
		8	20	60	FI		
Aglime superfine	100	100	100	100	100	0	2000
Dolomitic hydrated aglime	140	100	99	76	90	0	2520
Calcitic aglime	99	99	60	37	59	0	1168
Dolomitic aglime	105	97	95	90	93	0	1953
Waste water lime	102	100	100	100	100	74	530
Pelletized lime	93	100	100	100	100	0	1860
These are liming materials av will vary.	ailable in the s	state of	Ohio.	Depen	ding up	on source, lim	e characteristic

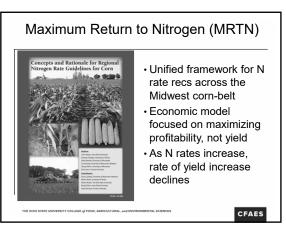


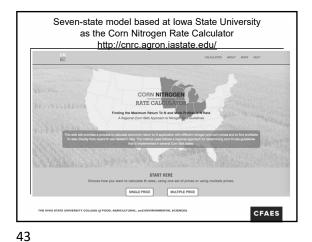


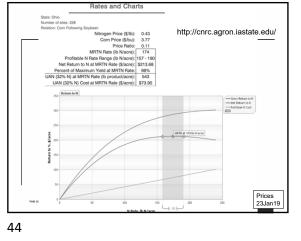
Buffer pH ¹	om m-state rer	D	We now use the modified SI buffer – aka Sikora		
		Mineral soils	Organic soils		
	6.8 ²	6.5 ³	6.0 ⁴	Soil pH	5.3
	tons agricultural limestone/acre				tons/acre
6.8	0.9	0.8	0.7	5.2	0.0
6.7	1.6	1.4	1.1	5.1	0.5
6.6	2.2	2.0	1.6	5.0	0.8
6.5	2.9	2.5	2.0	4.9	1.3
6.4	3.6	3.1	2.5	4.8	1.7
6.3	4.2	3.6	3.0	4.7	2.1
6.2	4.9	4.2	3.4	4.6	2.5
6.1	5.6	4.7	3.9	4.5	2.9
6.0	6.2	5.3	4.4	4.4	3.3
To compute LTI m	ultiply buffer pH	l by 10.			











New Ohio Corn N Rates - Economic model focused on maximizing profitability Price of Nitrogen Fertilizer (\$/ lb) Price/ bushel \$0.30 \$0.35 \$0.40 \$0.45 \$0.50 corn \$3.25 \$3.50 \$3.75 \$4.00 \$4.25 \$4.50 http://go.osu.edu/corn-n-rate CFAES

