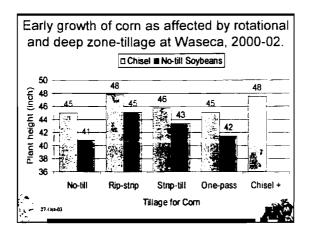
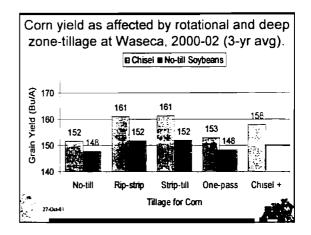
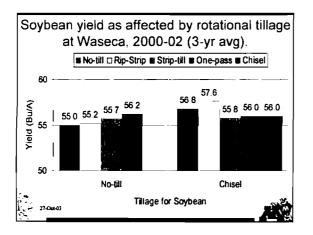
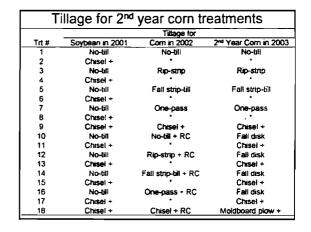


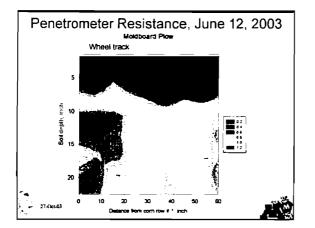
	Tillage for *	
Trt#	Soybean	Corn
1	No-till	No-till
2	Chisel +	•
3	No-till	Rip-strip
4	Chisel +	•
5	No-till	Fall strip-till
6	Chisel +	•
7	No-till	One-pass
8	Chisel +	•
9	Chise! +	Chisel

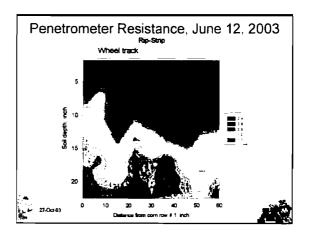


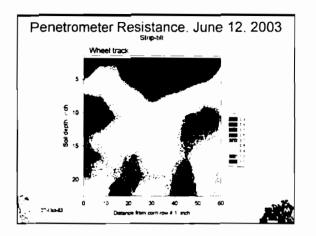


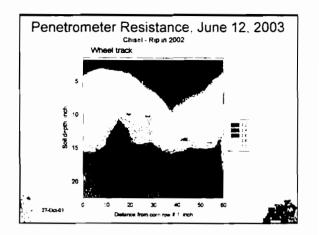


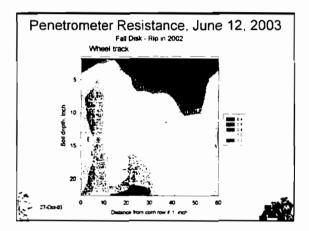


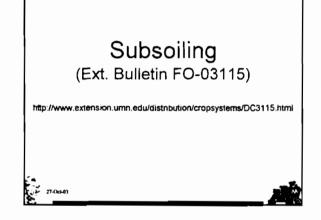






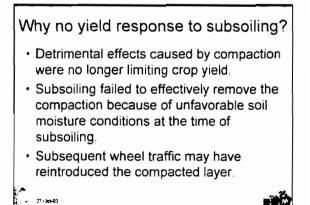




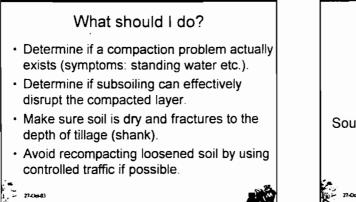


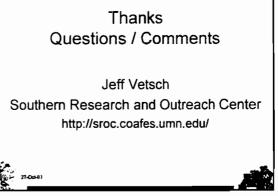
Effects of subsoiling

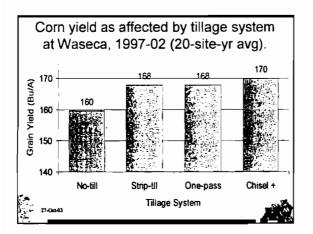
- In the Midwest, research results evaluating the effects of subsoiling have shown few positive yield responses to subsoiling. When they do occur, they are variable and relatively small.
- In a Waseca study, subsoiling to a depth of 16 inches failed to increase yields on the 20-ton per axle treatments for either corn or soybeans and decreased corn yield 11 bu/A in one of the two years. :7-Oct-03



North Central Extension-Industry Soil Fertility Conference. 2003. Vol. 19. Des Moines, IA.







Corn yields as affected by tillage at								
various yield levels at Waseca.*								
Yield	Tillage	Change						
Level	No-till	Strip-till	One-pass	Chisel +	Hi:Low			
Corn Grain Yield (bu/acre)								
Low	111	120	122	125	11			
Med	139	144	145	147	6			
High	161	165	165	167	4			
V High	182	195	190	193	6			
Avg	148	156	156	158	6			
4 27-001403 54								

PROCEEDINGS OF THE

THIRTY-THIRD NORTH CENTRAL EXTENSION-INDUSTRY SOIL FERTILITY CONFERENCE

Volume 19

November 19-20, 2003 Holiday Inn University Park Des Moines, IA

Program Chair: John E. Sawyer Iowa State University Ames, IA 50011 (515) 294-1923

Published by:

Potash & Phosphate Institute 772 – 22nd Avenue South Brookings, SD 57006 (605) 692-6280 Web page: www.ppi-ppic.org