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INTERNATIONAL STORMWATER BMP DATABASE www.bmpdatabase.org







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Geosyntec Consultants, Inc.

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Wright Water Engineers, Inc.

x United Soybean Board/SmithBucklin ffh National Corn Growers Association ffh National Corn Growers Association

z ffh z National Laboratory for Agriculture and the Environment, U.S. Department of Agriculture, Ames, IA

Illinois Council on Best Magament Practices

z Shaver Consulting, Inc.

z z University of Delaware

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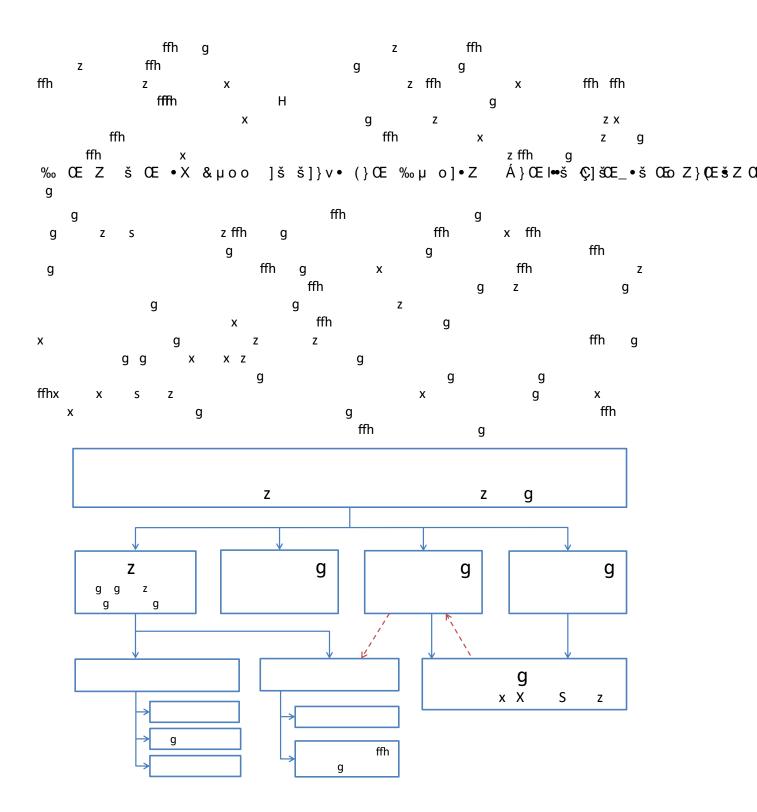
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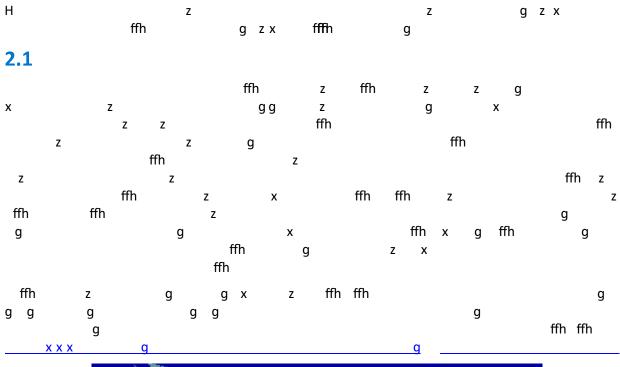
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			Bioreactor, Controlled Drainage	Buffer	Controlled Drainage	Cover Crop	Cover Crop, Controlled Drainage	Cover Crop, Fertilizer	Cover Crop, Fertilizer, Controlled Drainage, Crop Rotation	Cover Crop, Filter Strip	Crop Rotation	Crop Rotation, Fertilizer	Cropping Systems	CRP, Cropping Systems	Drainage, Cropping System	Fertilizer	Fertilizer, Crop Rotation	Fertilizer, Terrace	General, Contour Planting, Tillage, Grass Waterway	Grassed Waterway	Irrigation, Controlled Drainage, Fertilizer, Intercropping	Tillage	Tillage, Controlled Drainage	Tillage, Cover Crop	Tillage, Fertilizer	Tillage, Fertilizer, WASCOB	Other
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			Bioreactor, Controlled Drainage	Buffer	Controlled Drainage	Cover Crop	Cover Crop, Controlled Drainage	Cover Crop, Fertilizer	Cover Crop, Fertilizer, Controlled Drainage, Crop Rotation	Cover Crop, Filter Strip	Crop Rotation	Crop Rotation, Fertilizer	Cropping Systems	CRP, Cropping Systems	Drainage, Cropping System	Fertilizer	Fertilizer, Crop Rotation	Fertilizer, Terrace	General, Contour Planting, Tillage, Grass Waterway	Grassed Waterway	Irrigation, Controlled Drainage, Fertilizer, Intercropping	Tillage	Tillage, Controlled Drainage	Tillage, Cover Crop	Tillage, Fertilizer	Tillage, Fertilizer, WASCOB	Other
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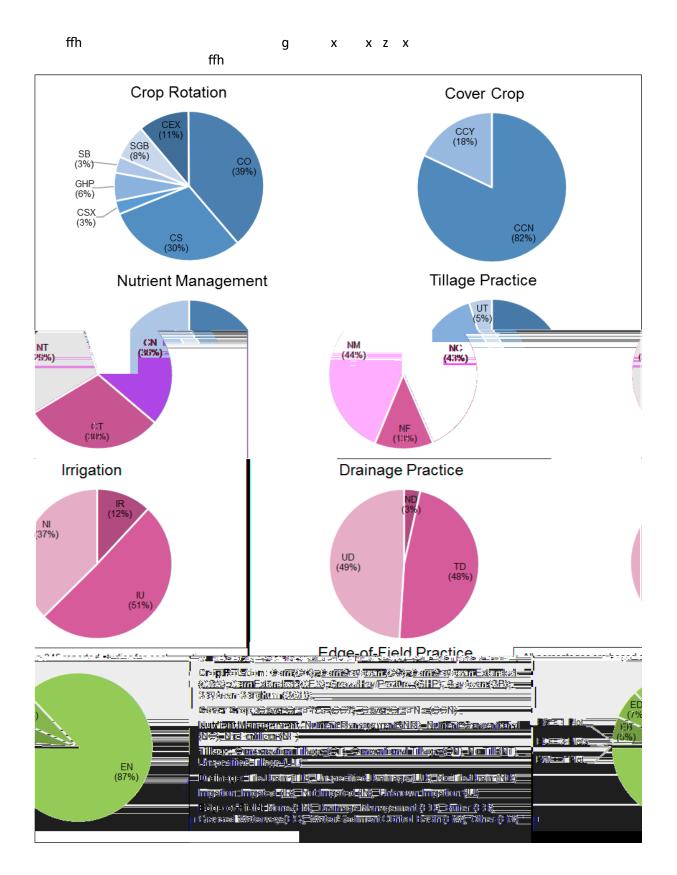
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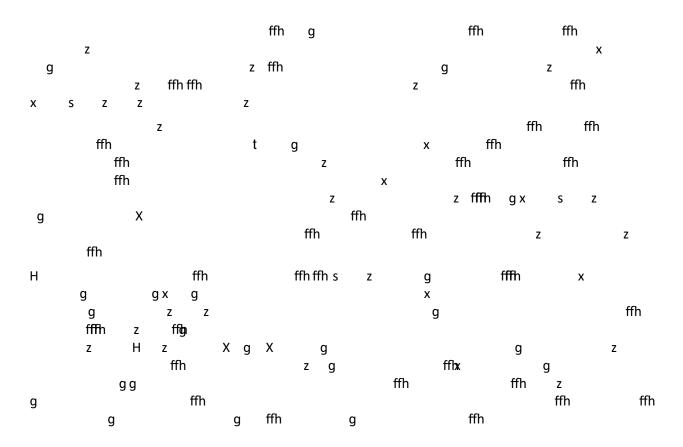
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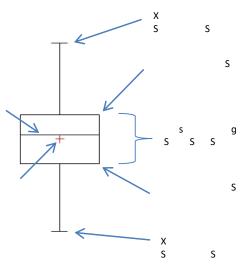
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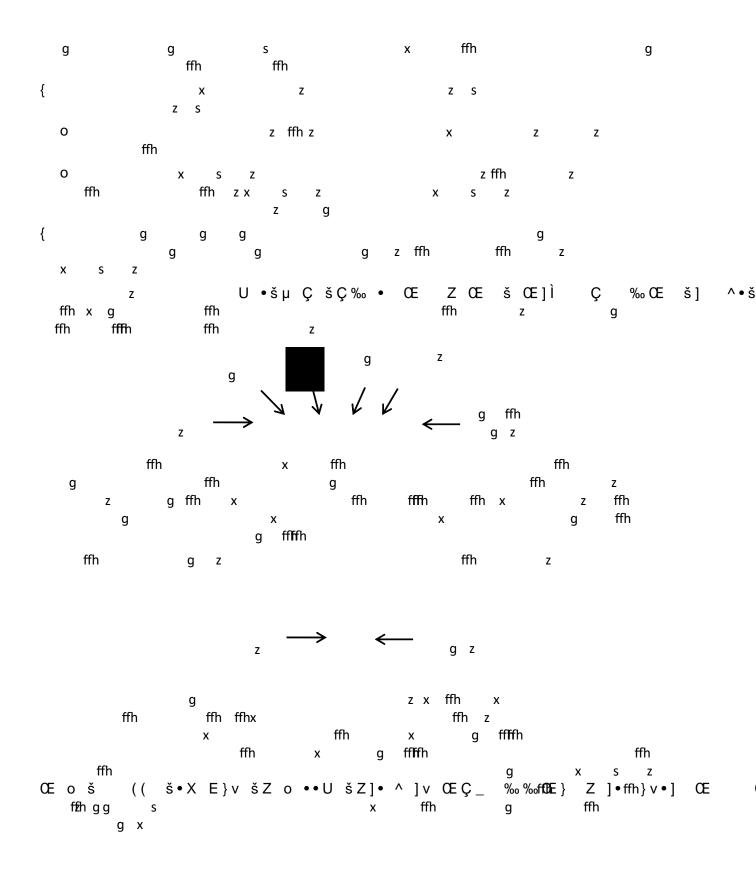
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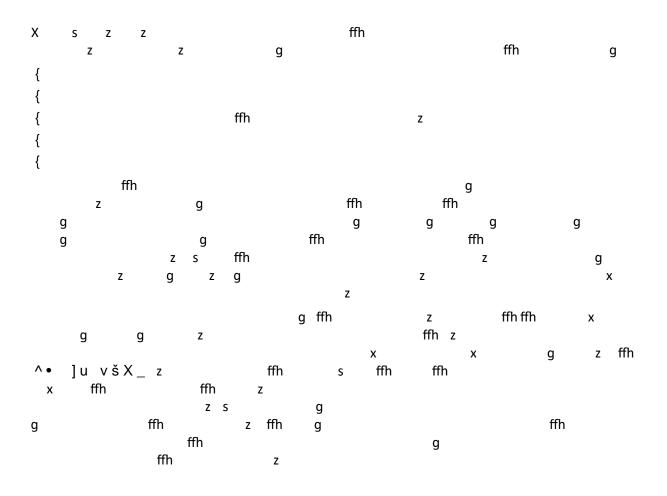






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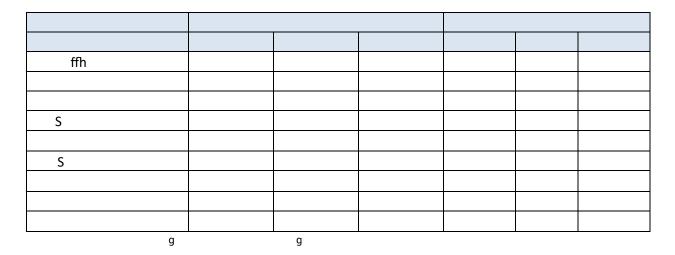
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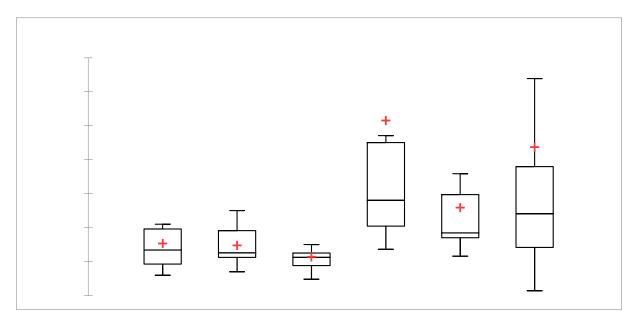
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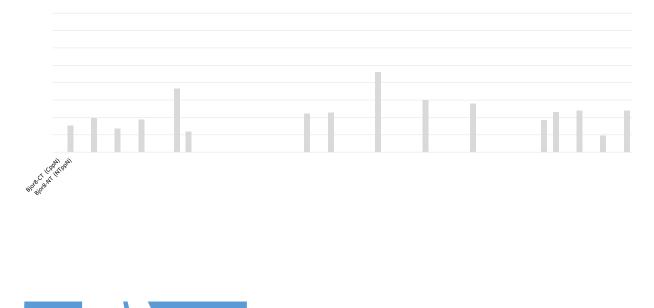
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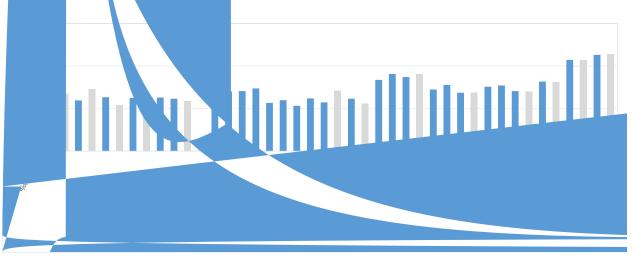
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‰ } o	ομè	śvš	}u ]v	š]}v (}o	o } Á	Ç	, ^	]P %	₀]šµ	ιŒ	} /	Ɖo}š	} u ‰	Œ]•}
			ffh	g							z	ffh		
Z						z			ffh			Z		
ffh			g Z	ffh					g		ffh			
g		g						х	ffh					
				g				g				Z		





	ff <b>g</b>		g x g	g	ffh	ffh ffh
g			ffh	ffh ffh	g ffh	
	z	fffh	х	g	ffh	Z
Z	g	g ffh	ffh			

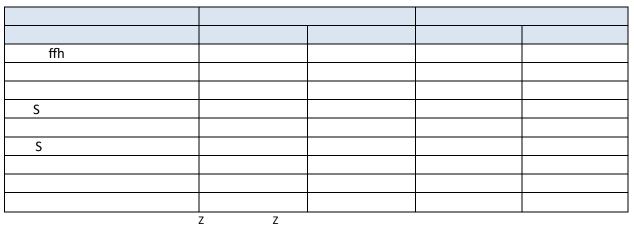


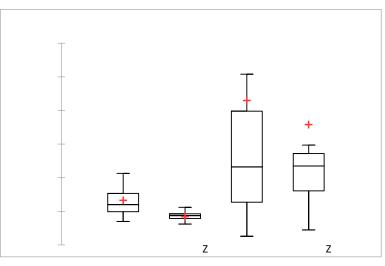


			g z	z			g
ffh	Z	g					
ffh		Z		Z	g	z ffh	х
	х						

4.3.1.2.
----------

g									х				g				ffh	
			ffh x		хх	x		1	fh	g						ffh		
Z		Z	х						ffh	Z			Z	х				
ffh							ffh		g									
	ffh		ffh	ffh					g	ffh					х			
g		g		х			х				g							g
				g	g			Z								х		
х		g							Z	g							Z	
ffh				ffh	ffh	ffh					f	fh				ffh		
			ff	h	Z											ffh		
						Z					g							Z
														х			gх	
												g	g			Z		
ffh				z		Z												

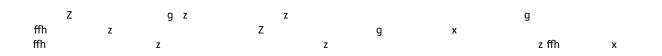






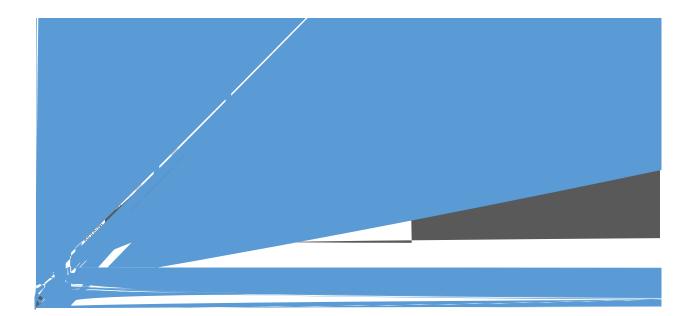


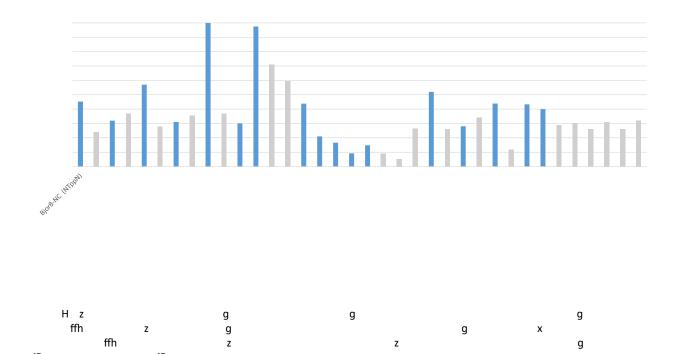




4.3.1.3.

g g g fffh ffh z g ffh g f**ff**h ffh g g z ffh zχ x g Ζ g g g g ffh g Ζ Ζ g ffh ffh Ζ g Ζ Z ffh g z ffh ffh z ffh z g z ffh zх ffh ffh g z zg z g g •šµ]•X•‰]ššZ••]Pv](] všPvŒo]Ìš]}v•UšZ PDW •Z}Á• š ffh g g х Х g Z хх ffh ffh ffh Z ffh х g g g g z ffh ffh g Х g ffh ffh g g Ζ ffh g ]všZ ^^šµÇ 0E \_ v ^& 0Eš]o]Ì g ffh z ffh ffh g ffh ffh х ffh g g • šZ ^ðZ•\_ }(vµš0E] vš u v P u vš ~]X XU 0E]PZš •}µ0E U 0E Z] À z g



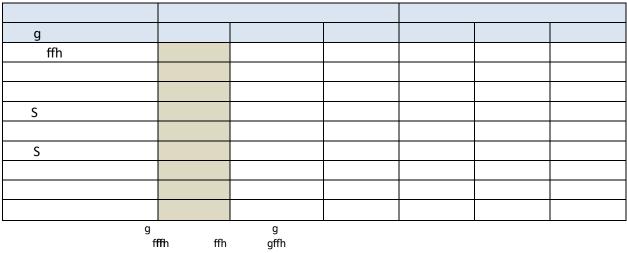


z ffh

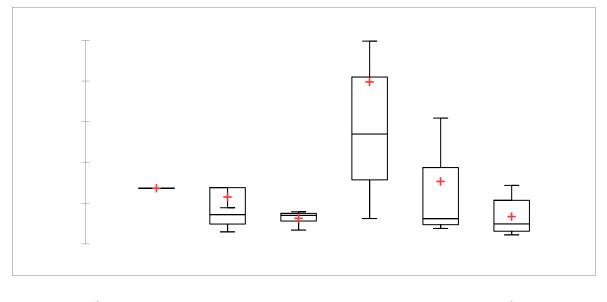
х

ffh

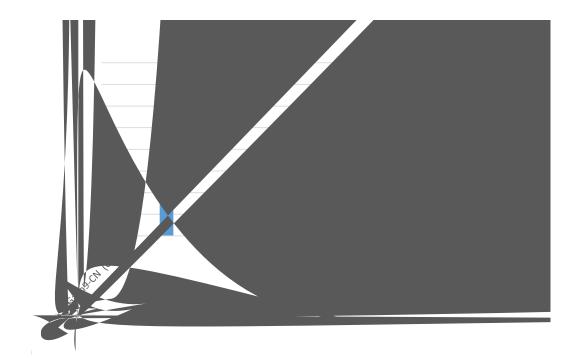
	z	ffh				ffh	g	ffh	Z	х
		ffh			g					
			Z	ffh			g			f <b>fff</b> h
g								ffh	ffg	
		х				Z		g ffh		
		g						g		
g		g			ffhffh			g g	х	
z	ffh		g							х
							ffh	fffh		

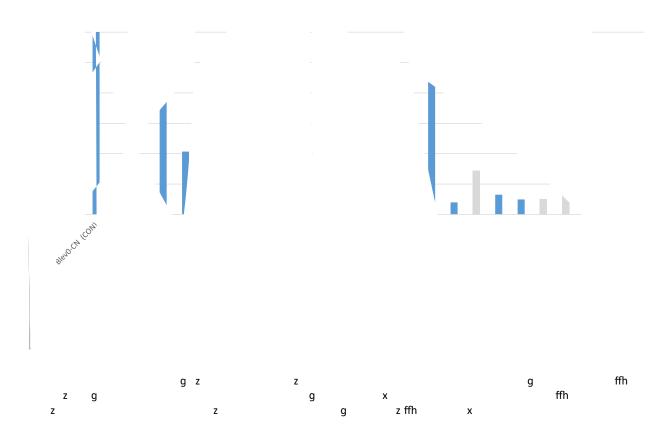












 g
 fffh z
 g
 z

 fffh ffh g

 v}š {v•]•š vš OE}•••šμ]•X dZ]•OE μ•šZ vµu OE {(•šμ]•šZ š

 ‰‰o•\_\_ }u‰ OE]•}v (}OE vÇ ‰ GEš]µo OE ‰Z}

 ffh
 ffh

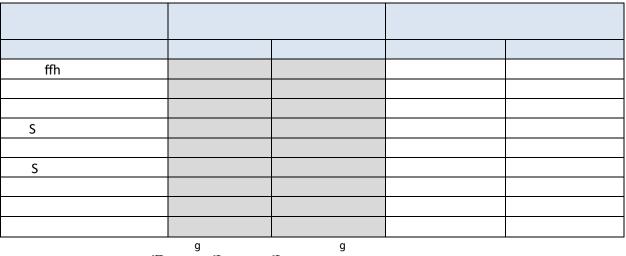
 u}v•šOE š•v (]š• {(^vµšOE] vš u v P u všX\_ •v}š ]v ^ š]}v ðXïZ

 z
 z

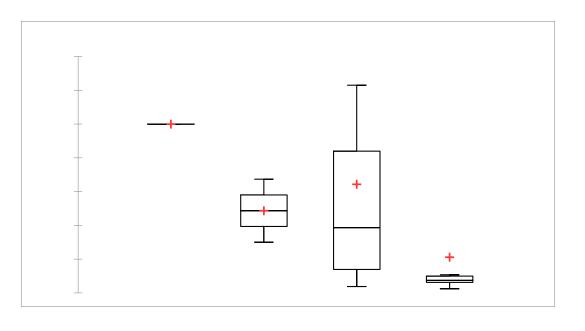
 ffh
 g

 ffh
 ffh

 g
 fffh



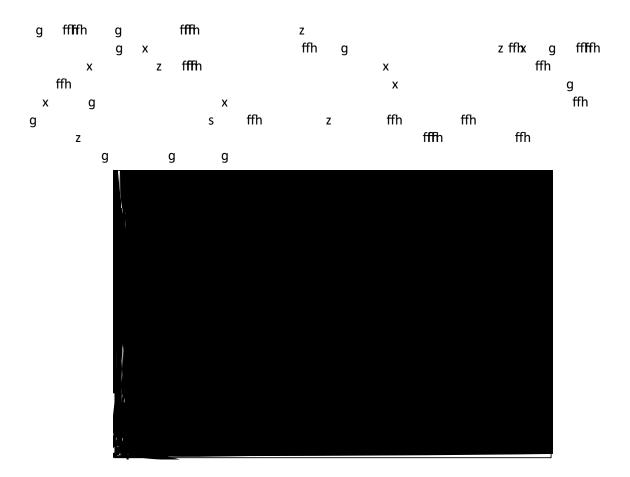
fffh ffh gffh

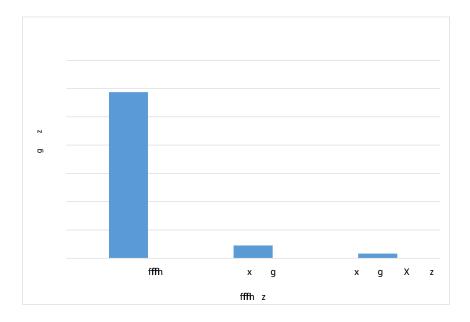






	х		g	x			ffh	ffh					g
9	g z					g	х		ffh	g			
		g			ffh		Z		g			g	
	х					ffl	า		z		Z		
		g		ffh			z ffh		х				





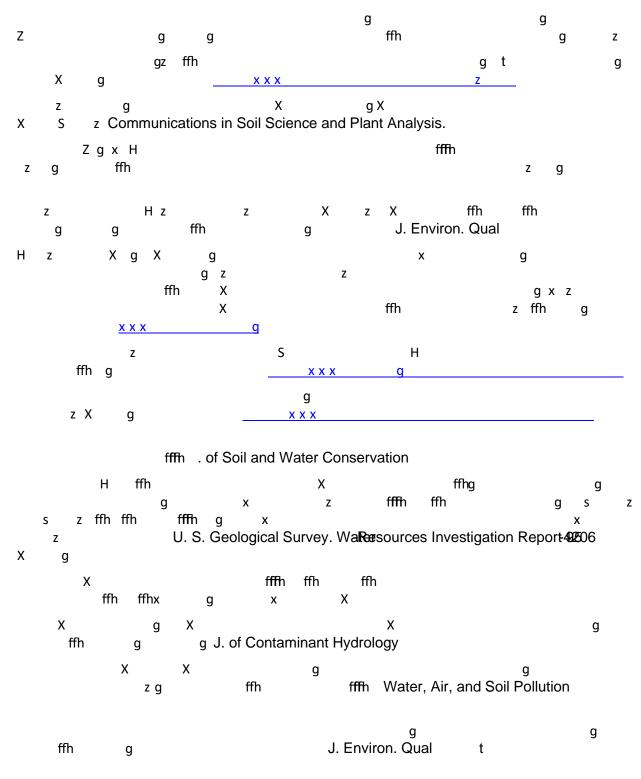
## 4.4

	g	-	g z ffh	ffh		z ffh	
g	ffh g	z z z z x	ffh	ffh g ffh ffh	z	g g x	ffh
4.5							
ffh	ffh g x		ffh ffh z	ffh s ffh	z ffh	g g ffh	
g	ffh	g g z	g		g g	x ffh	
ffh	ffh x g	ffh		z		ffh	
{  g ffh	z ffh ffh	Z	Z	x	g	ffh X gg g z	
ffh ffl	Դ ց g	g ffh	z ffh ff ffh	fh	g g g g	ffh ffh	
x	g fffth	g	fi ffh	fh ffh	g	]u‰ouvšš]} z g	
Ε ' [΄ νοζ ffh	Ç••Œ ffh ffh	ošš}′ g	πnm /OE}iš_ ^vµšOE]v g	m v šuv g	]š]}v o ‰ P u všX_	ffh ffh CE CE À]Á ( dZ]∙s CE•]}v x g	Ç•}]o•] îXì vo(
{ g		s ffh	z x	c ffh		g ffh x ffh ffh	
Z					g		
	ffh h f <b>ff</b> h	ffh z ffh	x x g x s	Z S Z	X ffh		
		Z	5		ffh	g ffh ffh z	
ffh	Z	g	Z	2		ffh	

g z z g	ffh g g g g ffh x	ffh g ffh f2hg g ffhg	g x s ffh	z z ffh
g g g z	ffh z ffh z	z g ffh z ffh	z z ffr	z ffh n x g
X s z x x ffh g ffr	g ffh g	g ffh z x g ffh g x	x ffh ffh	ffh g ffh
ffh	g x	ffh	fffh	
ffh	g	x ffh	ffh f <b>ff</b> h g	
g g ffh g	ffh x ffh ff	x ffh	ffh z x	s z zg
u}v∙šOE š ffh ₂ g	2	•]Ì (]Š∙ oo_ g	z •}oµš]}vš} z ffh g	ΡŒ]μošμŒ o Áš
g	z	z ffh	-	z g
g ffh g g		g x fffffh z g	ffh g x z ffh	z g
	fffan z ffh		ffh x g ffh	g
g z ffh	gz	g ffh ffhx	×	g ffh
rffh	g x g x x ffh	g fffh z g fffh z g x ffh	Z	z ffh
-		5	5	

g	z g		Z	ff	h	g	ff	h			ffh	fff	h x					f£h	
9 X	9							•										1211	
	ff	h	Z	ffh 1	ffh g ffh i	-					ffh			g	ff <b>if</b> r		Z	S	Z
			ffh		ffh								ffh				g	ff <b>ff</b> r	ı
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	Ç	9			ffh			f	fh				ffh			f	fh	g	
						q	ffh	х			g			g					
		ffh				5	S			ffh			S	5				ffh	х
S	z		ffh		Z		g					g							
S	ff	ħ		2	z			g	х										

s ffh z g x



Note: See AgBMPDB vector 2.0 for a list of studies included in the database.

		Н	fffh ffffh	f <b>ff</b> h
	ffh	ffh	g	J. Soil.
Sci				
х	g	f <b>ff</b> h ffh	g	Z
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x		н		fffh
g	Х	x z	. Environ. Qual. 3	
			g	
<u> </u>	g		<u> </u>	



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