



What is Precision Agriculture?

• An attempt to manage for spatial variability within a field by dividing a field into different zones where different rates of input are applied as appropriate (Hedstrom, K. 2005.)









Error Contributions

- GPS loss of signal
- Operator error
- Flux of combine speeds
- Time lag of grain through the machine
- Lack of correct sensor calibration
- Combine turning corners reads seeds it has previously collected

































Co	ntinued					
			Coefficie	ents		
		Unstanc	lardized	Standardized	1000	
Mod	al	Coefficients		Coefficients	t	Sig
1	(Constant)	10 930	5 286	Dela	2.068	0.048
	P	0.003	0.008	0.049	0.324	0.748
	К	0.003	0.007	0.069	0.425	0.674
	Mg	-0.003	0.005	-0.154	-0.581	0.566
	Buff pH	-1.120	0.845	-0.204	-1.325	0.195
	Ca	-0.001	0.002	-0.131	-0.542	0.592
	S	0.147	0.125	0.225	1.174	0.250
	В	4.582	4.495	0.216	1.019	0.316
	Fe	0.020	0.007	0.984	3.045	0.005
	Mn	-0.231	0.045	-0.908	-5.140	0.000
	Zn	0.300	1.377	0.056	0.218	0.829
	Cap2	0.149	0.352	0.084	0.422	0.676

		Coe	efficient	s(a)			
		Unstandardized		Standardized			
Madal		Coefficients		Coefficients			
		Р	Std.	Dete			0:-
	(onctant)	B 12 207		Bei	la	1 2 2 4 7	Sig.
	onstant)	0.016	4.002		0 794	5.547	0.002
M		0.010	0.003		0.704	5 400	0.000
B	uffer pH	-0.109	0.033		-0.745	-0.409	0.000







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RESOURCES

- Hedstrom K.E. 2005. Introducing Geographic Information Systems to Grass Seed Growers in the Willamette Valley of Oregon. Master's thesis, Oregon State University.
- NRCS. 2006. Marion County Soil Survey: Irrigated and Nonirrigated Yields by Map Unit Component. USDA: NRCS.
- Hart, J.M, Mellbye, M.E., Horneck, D.A., Gingrich, G.A., Young III, W.C., Silberstein, T.B. 2005. Western Oregon Fertilizer Guide: Perennial Ryegrass Grown for Seed. Oregon State University Extension Service.
- NRCS Web Soil Survey http://websoilsurvey.nrcs.usda.gov/app/

Thank You