

4R RETAILER MEETING

December 12, 2013



What does 4R mean to retailers?

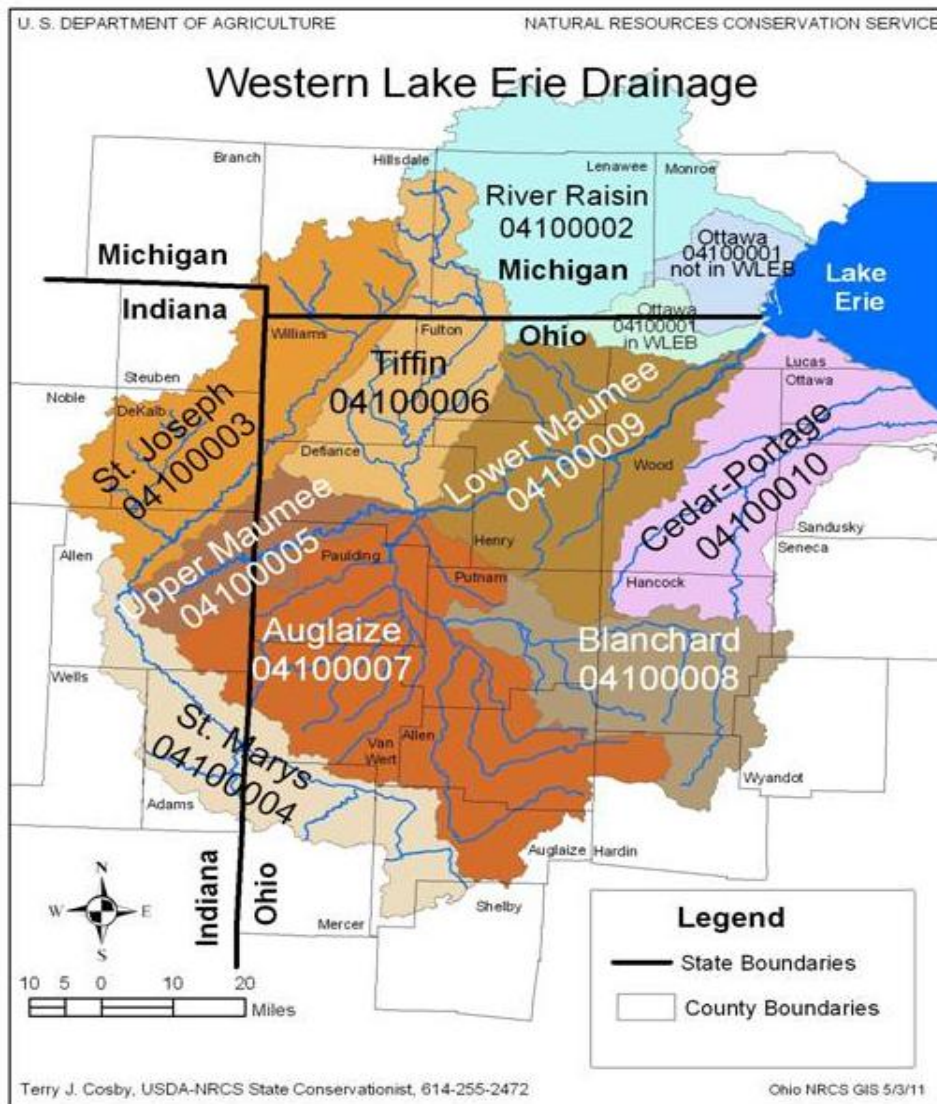
- Shows commitment to be proactive to improving water quality.
- Restriction will not only affect retailers business but the farmers business.
- 4R Stewardship is not only environmentally sound but also economically.
- Retailers want to be at the fore front of Nutrient Stewardship and Water Quality!



Retailer Pilot

Opening Meeting

- Starts with an overview of the facility
- Staff working
- Services Provided
- Estimates on Acres
- Counties
- Watersheds
- Common Crops



An Equal Opportunity Employer and Provider

RiverRaisin_special_map5-3-11.mxd



Retailer Pilot

Document Review

- Random Selection
- Current Soil Test
- Uniform areas no larger than 25 acres
- Recommendations meet the standard (ex. Tri-state)

SampleID	CEC	OM	pH	BpH	P1	K	Ca	Mg	BaseSat
	meq/100g	percent	none	none	lbs per acre (st)	lbs per acre (st)	lbs per acre (st)	lbs per acre (st)	percent
1	17.9	3.1	7.2	7.0	245	663	5,819	604	100
2	13.8	2.4	6.7	7.0	149	329	4,178	705	100
3	14.8	2.5	6.7	7.0	82	360	4,456	778	100
4	14.2	2.8	6.7	7.0	97	278	4,433	677	100
5	13.3	2.7	6.7	7.0	87	309	4,046	668	100
6	14.3	2.9	6.7	7.0	80	305	4,308	752	100
7	15.3	2.8	6.7	7.0	74	311	4,587	824	100
8	15.1	2.7	6.5	6.9	91	308	4,195	737	92
9	17.3	3.0	6.5	6.9	94	342	4,846	872	93
10	15.9	2.3	6.6	6.9	77	292	4,485	763	93
11	14.9	2.3	6.4	6.9	91	298	4,105	745	92
12	12.2	2.5	5.9	6.7	44	217	2,587	462	71
13	15.0	2.6	6.6	6.9	61	279	4,147	748	92
14	17.0	3.1	6.6	6.9	77	364	4,788	810	93
15	16.9	2.9	6.4	6.8	108	317	4,400	759	86
16	14.9	2.1	6.1	6.8	61	256	3,757	676	84
17	17.3	2.9	6.5	6.9	55	260	4,879	876	93
18	13.6	2.2	6.7	7.0	106	314	4,082	739	100
19	13.3	2.1	6.5	6.9	85	307	3,538	686	91
20	16.9	3.0	6.5	6.9	71	359	4,740	834	93
21	14.0	2.4	6.7	7.0	75	267	4,328	700	100
22	19.2	2.8	6.9	7.0	54	319	6,124	849	100
Average:	15.3	2.6	6.6	6.9	89	321	4,401	739	94

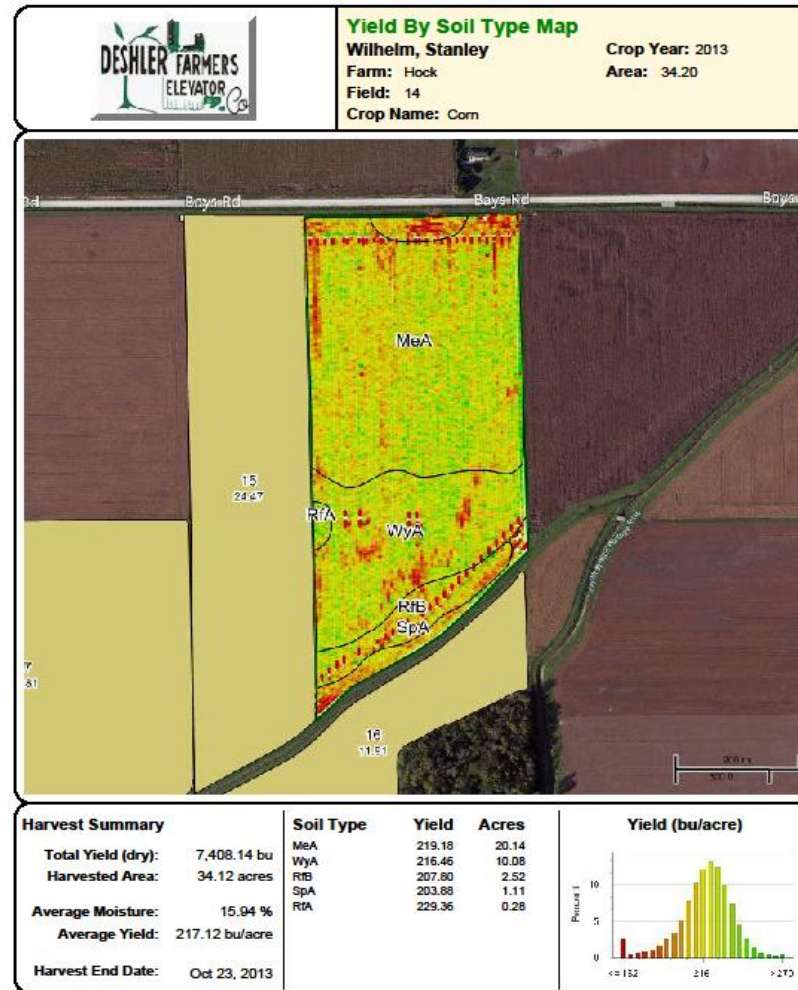
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Retailer Pilot

Document Review

- Recommendations
- Yield Goals (How do we determine yield goals)



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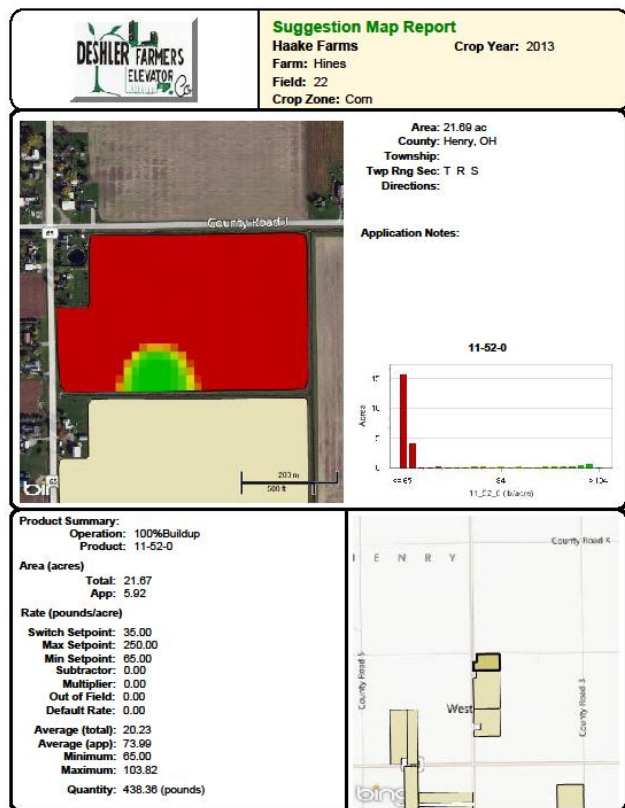


Retailer Pilot

- Application Review
 - Annual calibration of equipment
 - GIS Field Mapping (Variable Rate Technology)
 - Recommended application maps.
 - As applied maps from the application unit.
 - Scale Tickets on Fields applied (Shows dates when applied and total product)

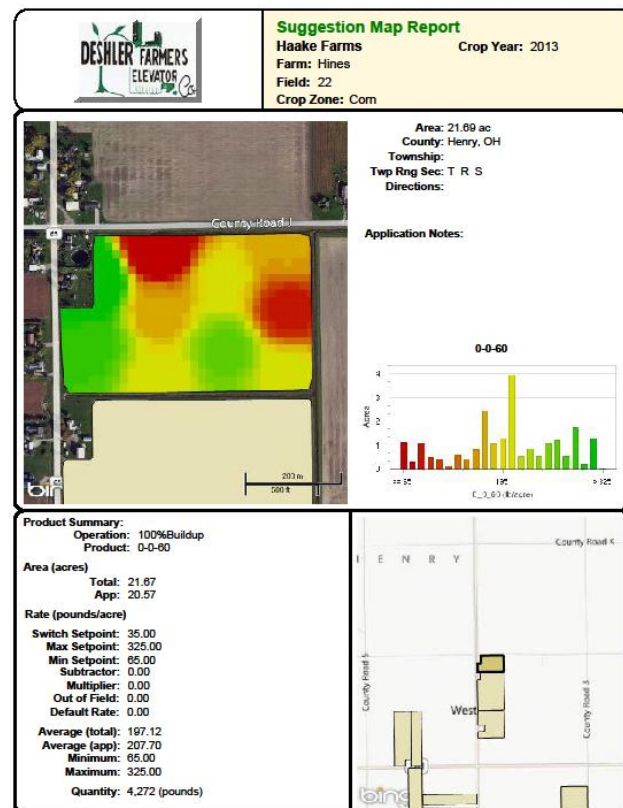


Application Maps



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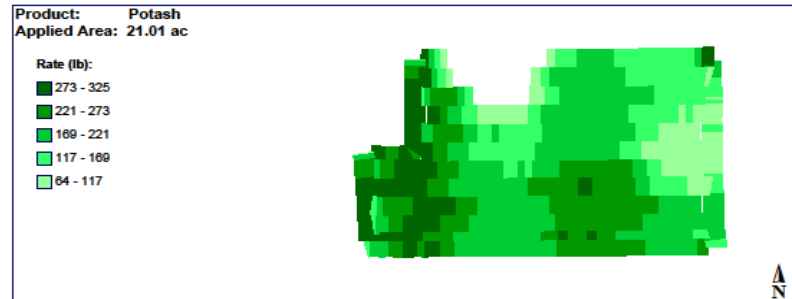


As Applied Map ex.

NEW LEADER

APPLICATION REPORT

Grower		Field	
Haake bros		Field: 22	Farm: Hines
		County:	Description:
		Township:	
		Range:	
		Section:	
Equipment Configuration		Application	
Vehicle:	Case IH FLX 3010	Timing:	Not Observed
Implement:	Case IH FLX 3010	Placement:	Not Observed
		Application Date/Time	
		Start Time:	08/02/2013 10:13 AM
		End Time:	08/02/2013 10:27 AM



Crop	Restrictions	Target Pests
Crop: Not Observed	Crop Rotation Restrictions: Not Observed	Not Observed
Growth Stage: Not Observed	Restricted Entry Interval (REI): Not Observed	Not Observed

Product Summary						
Name	Manufacturer	EPA #	RUP	Amount	Average Rate	
Potash			No	4312.18 lb	205.29 lb/ac	
K			No	2587.31 lb	123.17 lb/ac	

Operator/Supervisor Information		
Operator: Phil	License:	Signature _____
Operator:	License:	_____
Supervisor:	License:	_____



Nutrient Application

- No surface application when heavy rainfall is forecast within 12 hrs.
- No surface application on frozen soil
- Setbacks are recognized for sensitive areas



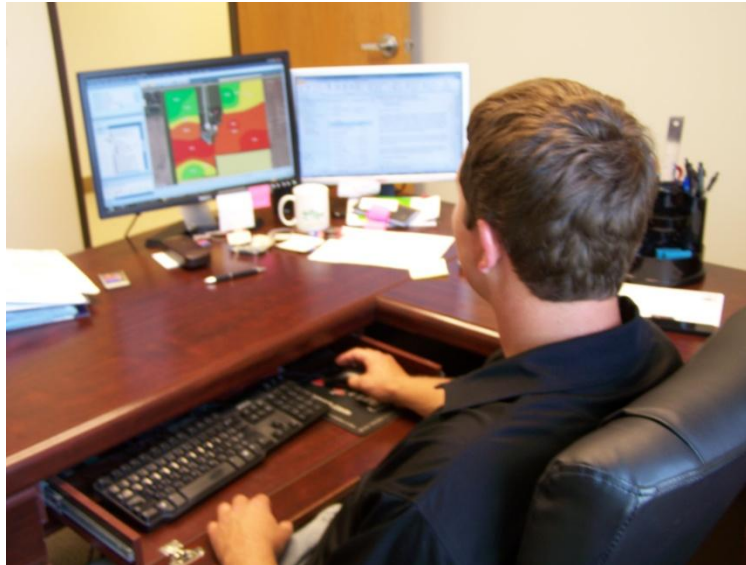
Retailer Pilot

- Recommendations
 - Reviewed and acknowledged by grower
 - Ex. Signature or any other form of writing by grower
 - Approved by Certified Professional (CCA)



Retailer Pilot

- Changes that have been made as a retailer.
 - Utilized the GIS system as a full spectrum record keeping.
 - As Applied Maps
 - Yield Data for application
 - Using Access database to track all applied fertilizer
 - Dates applied, product applied, and quantity applied



Question?



Thank You!!

