

Harvest-Max

— P A R T N E R S —



Data Collection

Layer Analysis

Reporting

Validation



Harvest-Max

PARTNERS

The purpose of our business is to help people make sense of all the information that the world of precision agriculture has provided them. We are a Precision Ag and Ag Consulting company... all in one. Many "Precision Ag" companies are good at selling products or services, but lack the ability to help you use these tools to build a plan that will benefit your operation. The "Consulting" part of our business is important as we help you gather information, interpret that data, and implement a management strategy on your farm to help you reach your goals.

There are a lot of places that you can go to get 1 or 2 of these components... but it is truly unique to be able to work with the same 1 – 2 individuals within the same company and build a plan with your own data from start to finish... then get help executing the plan throughout the season.



Gathering Information

The product of any system is only as good as the information that is used to build it! Our system is built around gathering the following information:

- ✔ Soil Information
- ✔ Complete Fertility Profile
- ✔ Specific Crop History
- ✔ Historical Farming Practices
- ✔ Drainage
- ✔ Topography
- ✔ Comprehensive Yield History
- ✔ ... and more



OPTI-MAX
Precision Data Management



Target Population	
A zone	35,542
A zone High Ck	37,382
B zone	30,857
B zone Low Ck	32,652
C zone	27,700
C zone High Ck	31,251

Correlation to Dry Yield

A Zone (221 bu/ac)		B Zone (197 bu/ac)		C Zone (197 bu/ac)	
pH	0.67	Population (target)	0.64	Population (target)	
Potassium (K)	0.52	Planting Speed	0.34	Soil Type	
Population (target)	0.45	pH	0.24	Planting Speed	
Calcium (Ca)	0.44	Total K Rate	0.16	pH	
Total P Rate	0.43	Organic Matter (OM)	0.12	Magnesium (Mg)	
Magnesium (Mg)	0.39	Soil Type	0.12	Calcium (Ca)	
Organic Matter (OM)	0.39	Phosphorus (P)	0.10	Organic Matter (OM)	
CEC	0.33			Total N Rate	

A Zone

Primary Soil Test Attributes by Yield Range

Dry Yield Range	Avg Yield	Avg pH	Avg P	Avg K	Avg OM	Avg CEC	Acres
106.97 - 161.87	134	6.38	71	301	2.07	9.36	6.01
161.87 - 192.0	229	6.47	80	336	2.27	9.95	6.06
192.0 - 210.67	239	6.21	94	361	3.34	10.19	6.03
Entire Zone	221	6.45	88	333	2.73	9.83	23.81

Applied Nutrients Per Acre by Yield Range

Dry Yield Range	Avg Yield	Avg N	Avg P	Avg K	Avg Lime	# N/Bu	Acres
106.97 - 161.87	134	179	76	60	N/A	0.83	6.01
161.87 - 192.0	229	180	86	60	N/A	0.79	6.06
192.0 - 210.67	239	179	96	60	N/A	0.79	6.03
Entire Zone	221	179	87	60	N/A	0.82	23.81

Removal by Yield Range

Dry Yield Range	Avg Yield	Avg P 1 Yr	Avg K 1 Yr	Avg P 2 Yr	Avg K 2 Yr	Acres
106.97 - 161.87	134	74	52	N/A	N/A	6.01
161.87 - 192.0	229	87	62	N/A	N/A	6.06
192.0 - 210.67	239	91	69	N/A	N/A	6.03
Entire Zone	221	84	60	N/A	N/A	23.81

C Zone

Primary Soil Test Attributes by Yield Range

Dry Yield Range	Avg Yield	Avg pH	Avg P	Avg K	Avg OM	Avg CEC	Acres
106.97 - 161.87	187	6.40	18	242	1.64	7.42	
161.87 - 192.0	204	6.47	32	243	1.91	7.32	
192.0 - 210.67	221	6.40	30	246	1.71	7.32	
Entire Zone	197	6.44	31	244	1.65	7.41	

Applied Nutrients Per Acre by Yield Range

Dry Yield Range	Avg Yield	Avg N	Avg P	Avg K	Avg Lime	# N/Bu	Acres
106.97 - 161.87	187	183	79	60	N/A	0.83	
161.87 - 192.0	204	181	78	74	N/A	0.74	
192.0 - 210.67	221	183	78	67	N/A	0.68	
Entire Zone	197	184	78	70	N/A	0.78	

Removal by Yield Range

Dry Yield Range	Avg Yield	Avg P 1 Yr	Avg K 1 Yr	Avg P 2 Yr	Avg K 2 Yr	Acres
106.97 - 161.87	187	53	49	N/A	N/A	
161.87 - 192.0	204	58	55	N/A	N/A	
192.0 - 210.67	221	64	60	N/A	N/A	
Entire Zone	197	57	53	N/A	N/A	

Yield by Soil Type

Soil Type	Avg Yield	Acres
Clayton	18.07	2000
Clayton	2.19	26500
Elberta	0.81	38000

Yield by Population

Population	Avg Yield	Acres
207	2.60	
206	2.30	
205	2.28	

Yield by Variety

Variety	Avg Yield	Acres
RL8233HB	197	32.58

B Zone

Primary Soil Test Attributes by Yield Range

Dry Yield Range	Avg Yield	Avg pH	Avg P	Avg K	Avg OM	Avg CEC	Acres
117.68 - 180.16	161	6.43	22	279	1.86	8.47	9.77
180.16 - 218.22	202	6.49	19	279	1.83	8.43	13.02
218.22 - 260.18	227	6.47	21	277	1.90	8.42	9.79
Entire Zone	197	6.47	20	278	1.86	8.44	32.58

Applied Nutrients Per Acre by Yield Range

Yield Range	Avg Yield	Avg N	Avg P	Avg K	Avg Lime	# N/Bu	Acres
117.68 - 180.16	161	160	71	61	N/A	1.00	9.77
180.16 - 218.22	202	160	80	60	N/A	0.79	13.02
218.22 - 260.18	227	160	74	60	N/A	0.70	9.79
Entire Zone	197	160	76	60	N/A	0.83	32.58

Removal by Yield Range

Yield Range	Avg Yield	Avg P 1 Yr	Avg K 1 Yr	Avg P 2 Yr	Avg K 2 Yr	Acres
117.68 - 180.16	161	61	43	N/A	N/A	9.77
180.16 - 218.22	202	77	55	N/A	N/A	13.02
218.22 - 260.18	227	86	61	N/A	N/A	9.79
Entire Zone	197	75	53	N/A	N/A	32.58

Yield by Population

Population	Avg Yield	Acres
207	2.60	
206	2.30	
205	2.28	




Yield by Variety

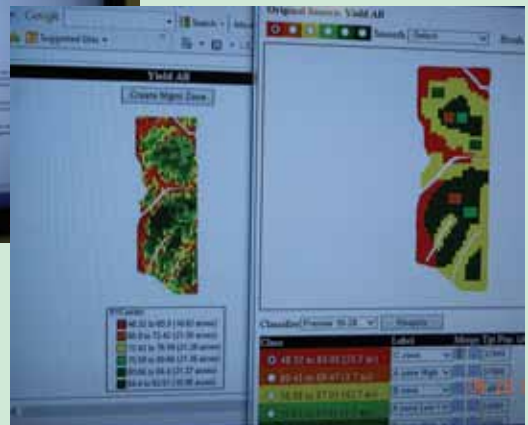
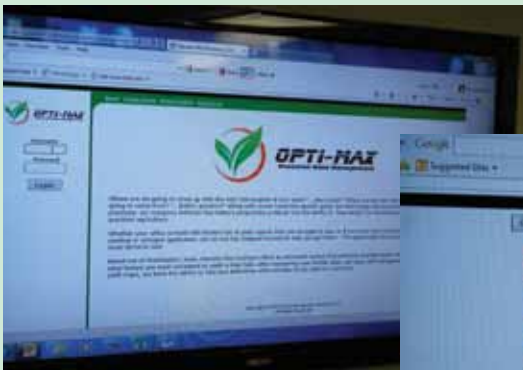
Variety	Avg Yield	Acres
RL8233HB	197	32.58



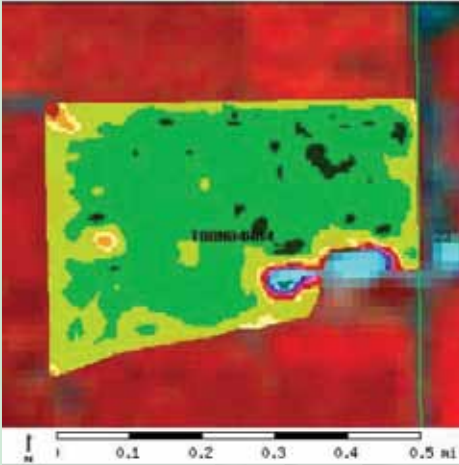
Data Analysis

Along with over 50 combined years of agronomy experience, we use a state of the art software system called **OptiMax*** that is designed to help farmers identify what specific farming practices are most closely related to yield on their farm.

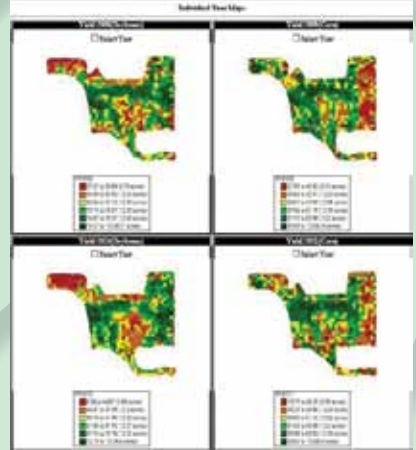
-  **NO-ONE** is able to compare more layers of data directly to yield than we can.
-  **NO-ONE** has the ability to interpret the data as accurately as we can.
-  **NO-ONE** has the hands on approach for testing and evaluating new strategies like we do.





OPTI-MAX
Precision Data Management




Zone	Acres
1	5.29
2	42.36
3	16.38
4	7.00
5	1.88
6	1.20
7	0.81
8	0.80
9	0.21
10	0.25
11	0.14
12	0.14
13	0.07
14	0.06
15	0.12



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We work directly with the grower building a customized strategy to use data collected on his farm.
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We analyze that data to compare how certain factors impact yield on his farm.
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We build and help execute a customized plan that will help the grower reach specific goals in their farming operation.

Implementation





Harvest-Max

PARTNERS

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