



Intro to Ag Precision Ag - Lesson 1, Part B



Components of Precision Agriculture

- A _____
- Equipment with _____
- Equipment with _____
- A _____
- _____

GPS Receiver

- _____ the equipment _____ in a field

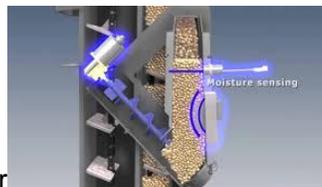


Equipment with Sensors

- “Sense” the _____ in which you are farming
- “Sense” the _____ of the equipment
- Take _____ about each _____ of the field



High Rate Seed Sensor



Moisture Sensor

Equipment with Meters

- Control the _____ of _____
 - _____, fertilizer, pesticides, _____, etc.
- /Can _____ the equipment
 - Aids in _____ field _____



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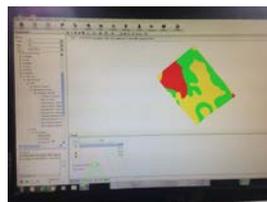
Monitors

- Indicate the _____ inputs are being applied.
- Tells the operator if equipment is working at _____ performance.
 - Gives off a _____ if not working properly.
- Acts as a user _____.
 - _____ can make adjustments _____.
- _____ all _____ gathered by GPS, sensors and meters.
 - Used _____ to help with _____ making.



Software

- Keeps track of information _____.
 - Throughout the _____
 - Across multiple _____
- Allows operator to
 - _____ data
 - Make _____ decisions to improve production
 - “_____” inputs to “_____” outputs and profit

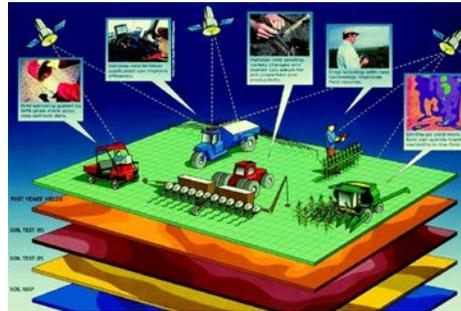
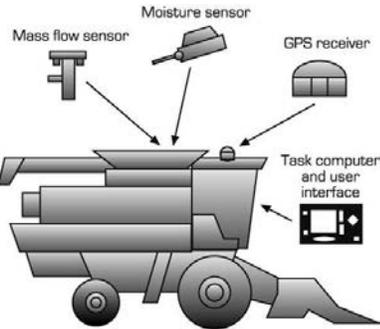




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Putting it all Together



"Big Data Comes to the Farm"

- U. S. Farms generate \$_____ from crops.
- Almost all new farm equipment is equipped with _____.
- _____% of farmers report using some sort of precision data.
- 80% of data now _____.
- Farmers choose whether to use data themselves, _____ it locally or to upload it to the _____.

What is the Goal of Precision Ag?

- Primary goal = identify _____ in the field.
 - _____ in the field
- Allows an operator to _____ practices to the different _____ of a field.



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Why is Precision Ag and Management Used?

- _____ Management!
 - Management on a _____ scale.
 - Look at _____ portions of a field
 - Manage its _____ characteristics
 - Place _____ accordingly for that portion
 - Saves _____ on seed, chemicals, water, time, etc.
 - Add the right _____ at the right _____, in the right _____ at the right _____!
 - Can increase _____.
 - Put less inputs where the field is less _____ no matter what you do.
 - Apply the most and best product to the _____ productive areas.
 - Be more _____ with input placement.
 - Example: _____