

Rick Mueller USDA/National Agricultural Statistics Service 16 Nov. 2011

CORN HARVESTED ACRES & YIELD





AGRICULTURAL CHALLENGES



REMOTE SENSING TASKS/CHALLENGES







DISASTER MONITORING CONSTELLATION 2011 COVERAGE

DE1 + UK2 : April through September, 2011

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Deimos-1 & UK2









DMC & LANDSAT 5 2011 COVERAGE

DE1 + UK2 + L5 : April through September, 2011







Imagery used for 2011 Illinois CDL Production





DMC

2011 Coverage Illinois Clouds Masked



Champaign-Urbana, Illinois**

2000 CDL

 This is the Farsto / Com
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Soybeans

CROPSCAPE PORTAL



nassgeodata.gmu.edu/CropScape

HOW COMPETITIVE ARE THE REMOTE SENSING INDICATIONS FOR PLANTED ACRES?

Highly Competitive

Corn Soybeans Winter Wheat All Cotton Spring Wheat Fall Potatoes All Rice Sugarbeets Peanuts **Durum Wheat** All Dry Beans

Sunflower

Canola

NASS Cropland Data Layer Applications



FUTURE AG MONITORING NEEDS...

Meet operational requirements Timely, useful, accurate ag statistics **Constellation approach** Growing thirst for data and statistics Improved temporal coverage Less one-off missions Consider new ideas Micro sats vs. one large observatory Enlarge swath Spatial/spectral improvements Future monitoring programs Open data policy/data democracy

