

Fitting the Ag Census into the Phase 6 Land Use

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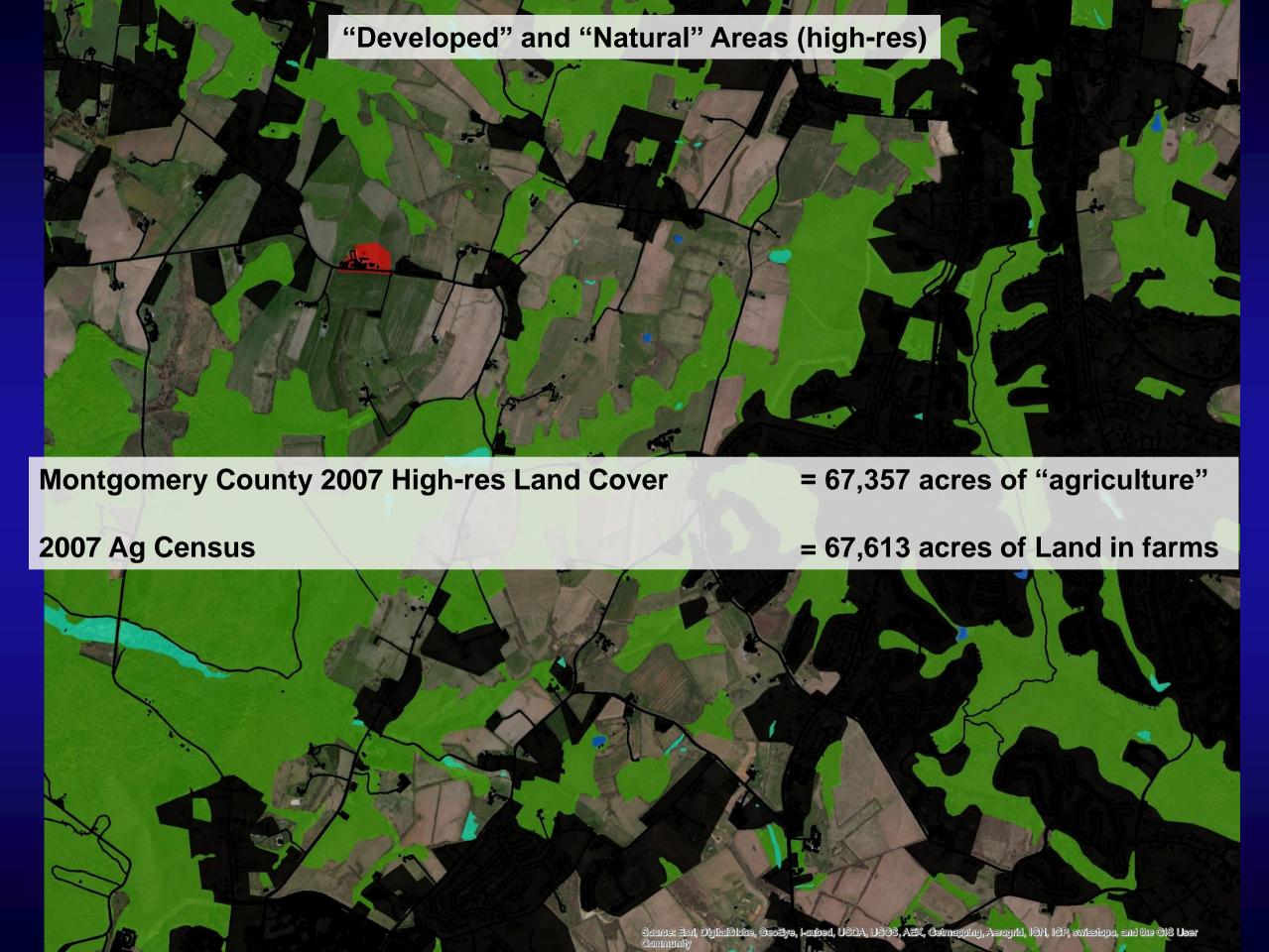
Phase 6 and Ag Census Reconciliation Overview

- The Problem
- The Current Solution
- A Proposed New Solution
- What This Means to AGWG









Align Phase 6.0 LU & Ag Census Tables – The Problem

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Hypothetical County (acres):

• Ag Census + Other P6 LU: 33,000

• County Area: <u>32,500</u>

"Extra" Ag Census Acres:

How to Adjust in Phase 6.0 LU Tables?



Align Phase 6.0 LU & Ag Census Tables - The Old Way

Current Approach: Reduce non-Ag P6 land use acreages sequentially

- 1. open space
- 2. non-regulated tree canopy scrub shrub
- 3. forest(not harvested)
- 4. non-regulated impervious + turf
- 5. ms4 impervious + turf
- 6. agriculture

Problem: can result in substantial reductions or elimination of the above listed land uses.



Align Phase 6.0 LU & Ag Census Tables - The New Way

Proposed Approach:

Reduce all land uses simultaneously in proportion to their error

Calculate Percent Adjustable Class Acres from Error:

			<u>Adjustable</u>		Adjusted
P6 Land Use	<u>Acres</u>	<u>Error (+/-)</u>	Acres (AA)	<u>% of AA</u>	<u>Acres</u>
*Forest	10,000	5%	500	24.1%	9,879
Impervious	500	5%	25	1.2%	494
Turf grass	1500	14%	300	14.5%	1,428
Open space	1000	25%	250	12.0%	940
Ag Census	20,000	5%	<u>1,000</u>	48.2%	<u> 19,759</u>
	33,000		2,075		32,500 ✓

*Forest = (10,000 - (500 * 0.241)) = 9,879 error adjusted acres





Align Phase 6.0 LU & Ag Census Tables: The New Way

If the needed adjustment (500) is greater than the total adjustable acres (2,075 acres) question the accuracy of the Ag Census and CBP interpretation of the Census, e.g.,

- Double cropping estimates
- Allocation of non-reported "D" values



Conclusions and Ramifications

Because high-resolution P6 LC is more accurate than previous model version land use datasets:

- Mapped land uses can no longer be eliminated from the landscape to accommodate the Ag Census;
- New methods needed for estimating double cropped acres and allocating "D's".
- Suggest focusing first on Lancaster County, PA because it likely represents a worst case scenario (i.e., Ag doesn't fit).

Questions?

