

P5.3 Potential Updates

WQGIT

5/10/10

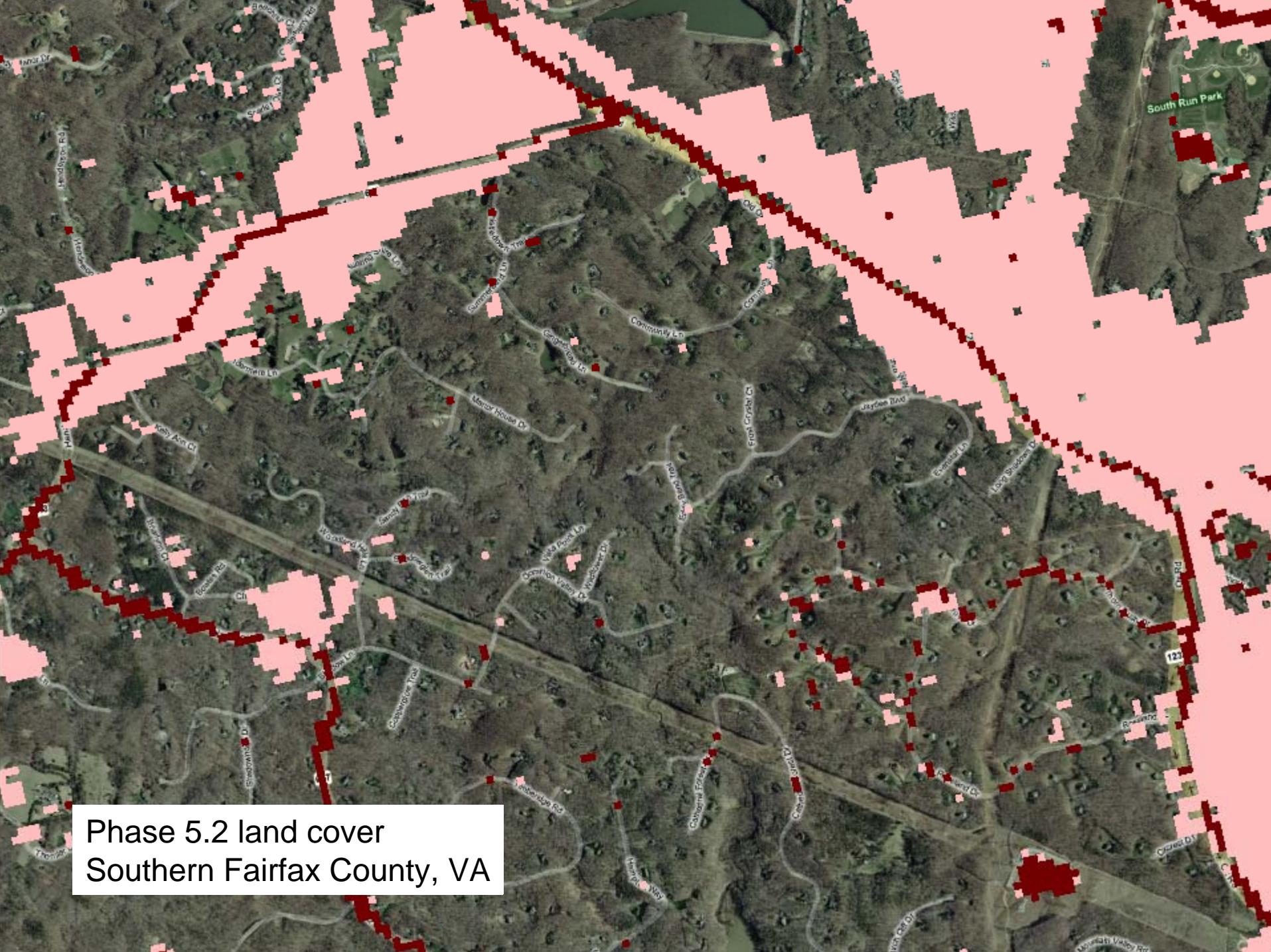
Gary Shenk

Changes already agreed

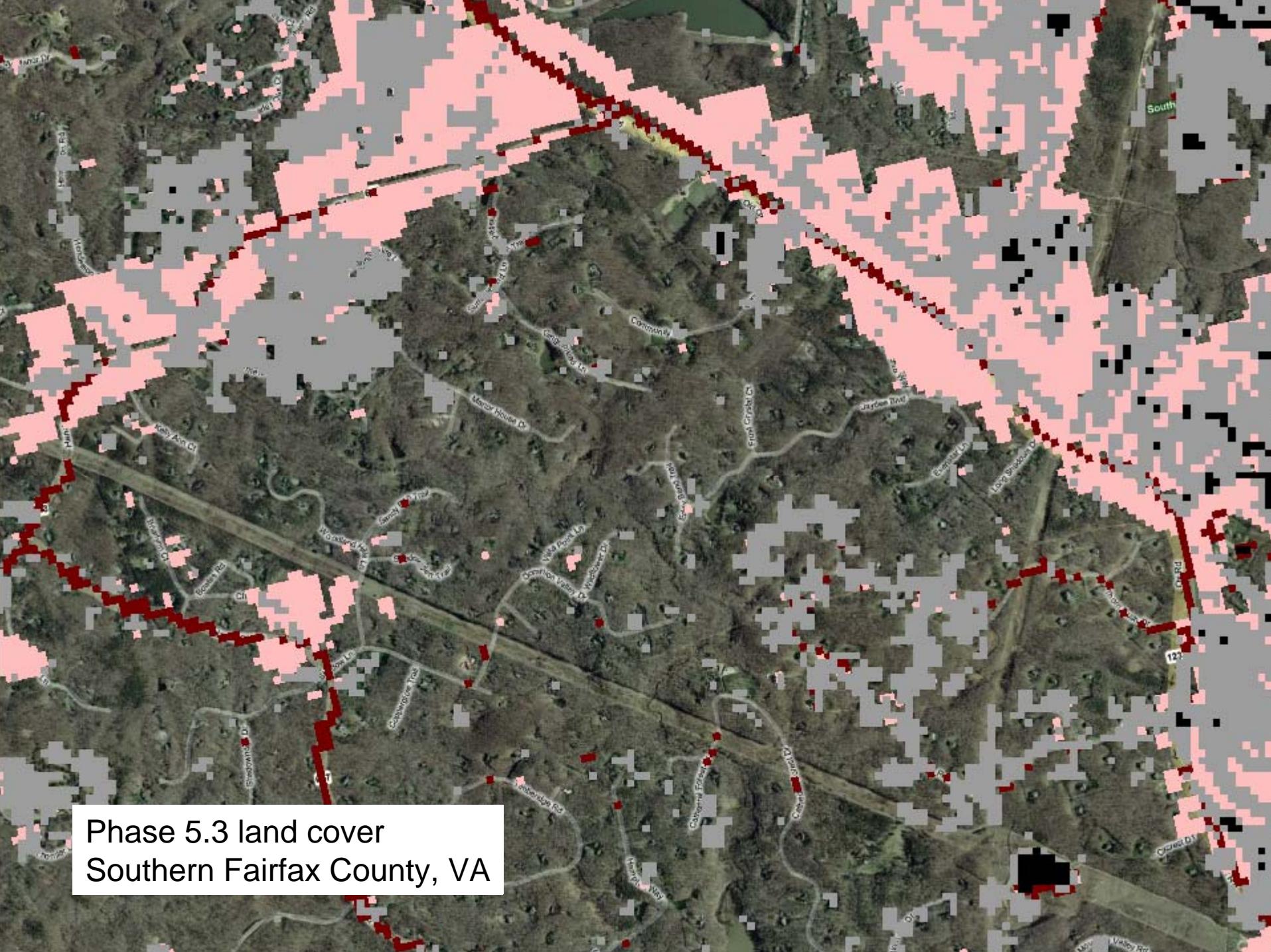
- Updated land use with more complete urban coverage
- Modified nutrient management for areas with inorganic fertilizer applications
- Stop automatic transfer of manure
- Dispose of excess manure in a sequence determined by the states



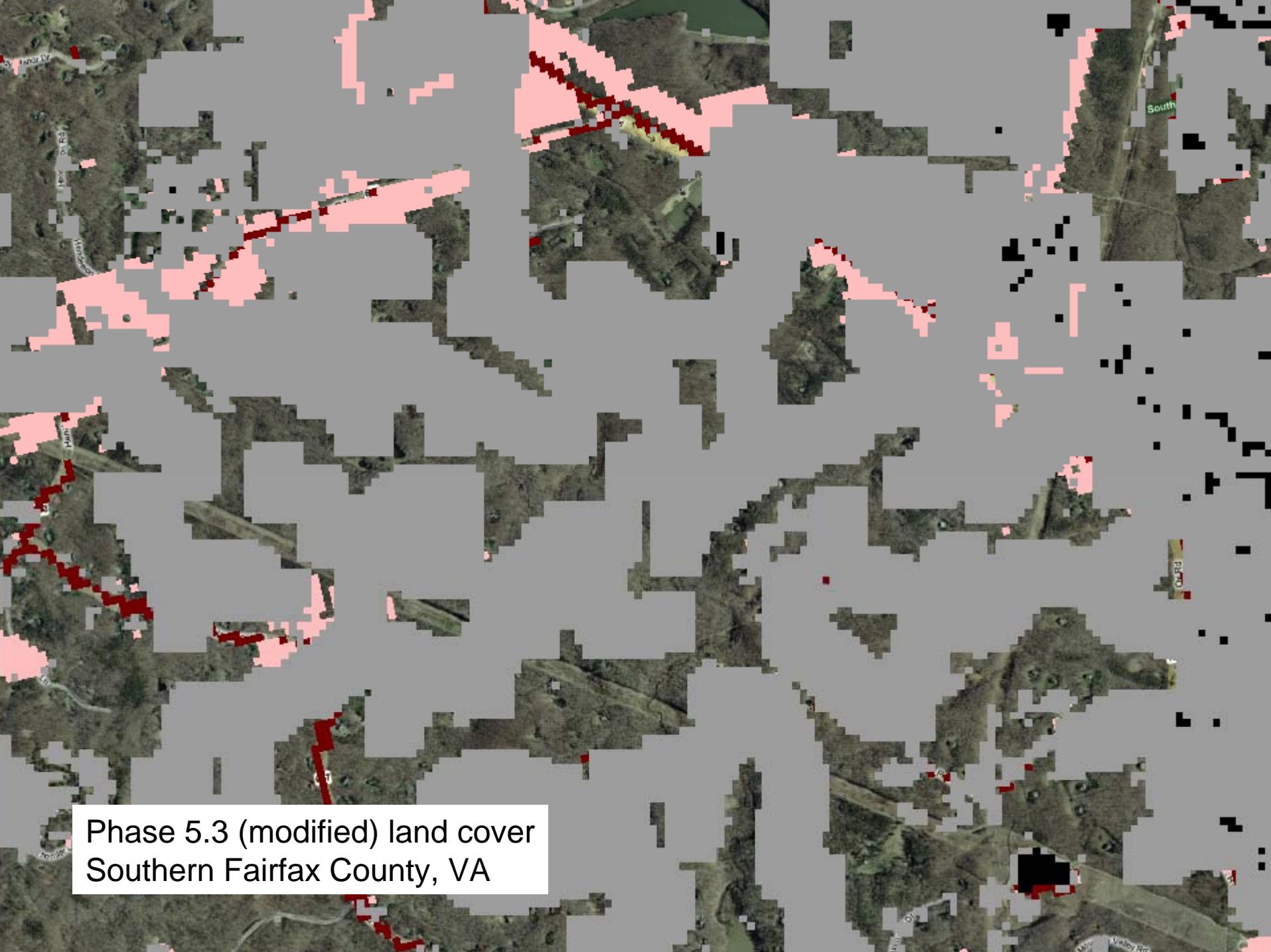
land cover
Southern Fairfax County, VA



Phase 5.2 land cover
Southern Fairfax County, VA



Phase 5.3 land cover Southern Fairfax County, VA

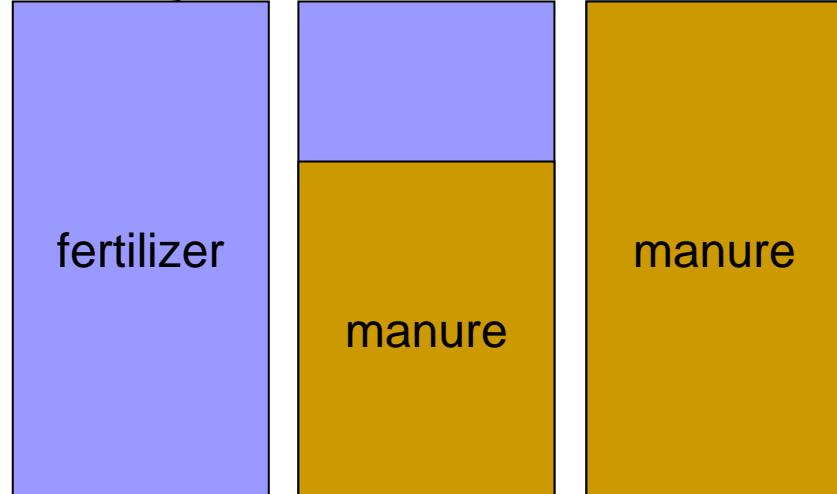


Phase 5.3 (modified) land cover
Southern Fairfax County, VA

Fertilizer in non-NM - Current

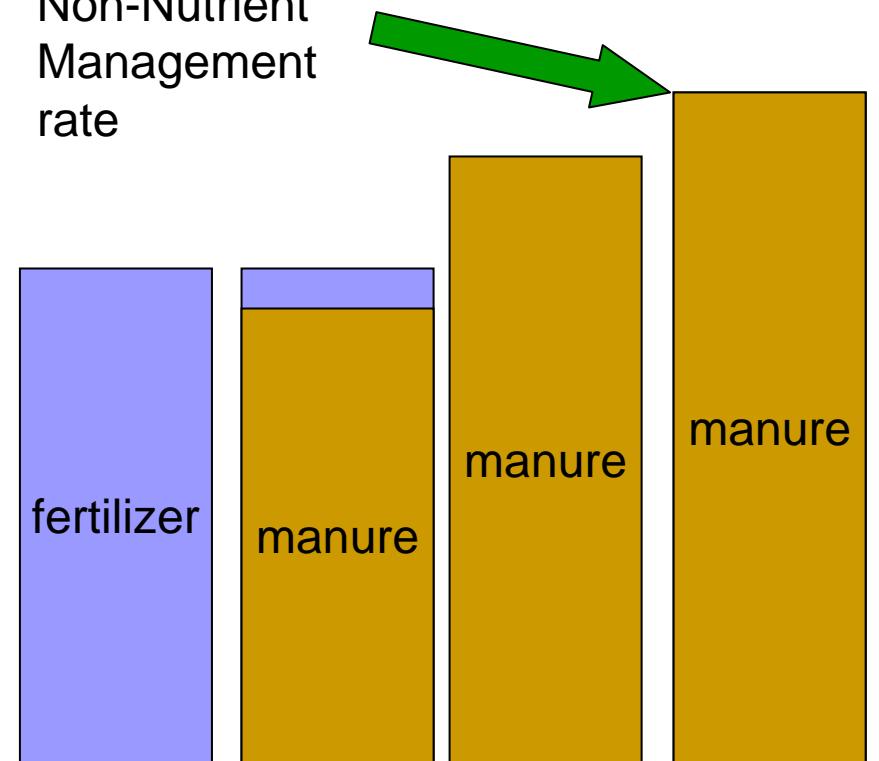
Nutrient management land use

Nutrient
Management
rate



Non-Nutrient management land use

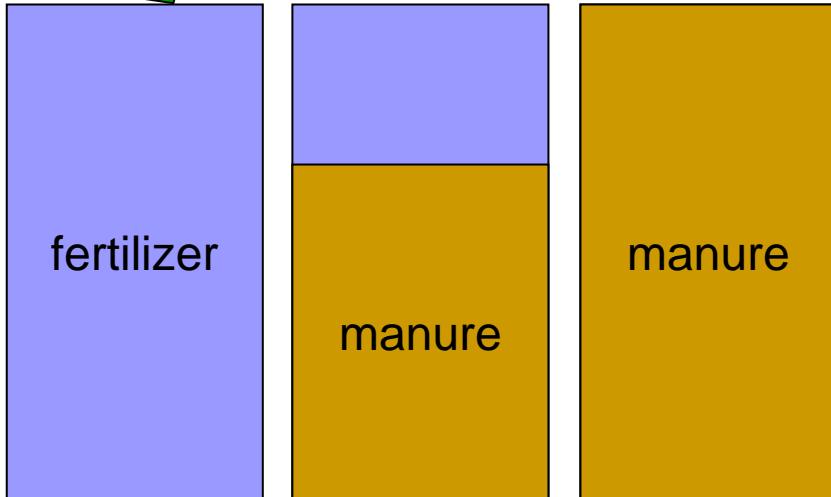
Non-Nutrient
Management
rate



Fertilizer in non-NM - Proposed

Nutrient management land use

Nutrient Management rate



No manure

some manure

sufficient manure

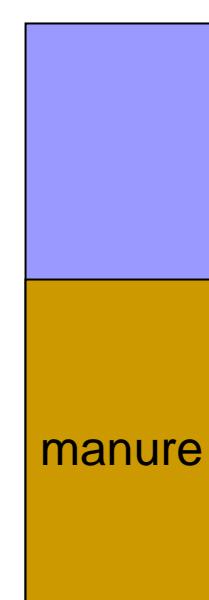
Non-Nutrient management land use

NM rate
+ 5%
Toward
Manure
nonNM



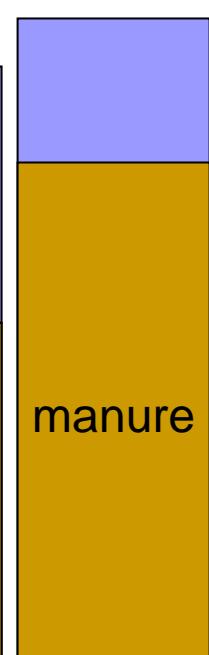
No manure

NM rate
+ 53%



some manure

NM rate
+ 75%



Manure
nonNM
rate



sufficient manure

Newly Submitted Issues

- Ag WG
- Forestry WG
- Urban WG
- Watershed Technical WG

- Issues affecting calibration – due now
- Issues affecting scenarios – due mid-June
- Issues for future study – no deadline

AgWG Recommendations - Calibration

- Articulation of nutrient management
- Articulation of manure disposal sequence
- Revision of the pasture management BMP values (next presentation)
- Revision of traditional cover crop BMP values
 - Could not reach defensible recommendation
- Revision of E3 scenario
 - Discussed Next WQGIT

AgWG

Recommendations – Calibration State Guidance for Excess Manure Distribution

State	Received response	Varies geographically	Landuses	Max rate(s)	Increment(s) increased
WV	✓	X	lwm	4	1, 2
			hwm	4	1, 2
			hyw	4	1, 2
			pas	6	2, 3
NY	✓	X	hyw	1.2	0.2
			pas	2	1
			hwm	4	0.8, 2.2
			lwm	6.1	0.7, 0.2, 2, 2.1, 0.1
PA	✓	X	lwm, hwm, hyw, pas, alf	10	0.01
MD	✓	X	hom, hwm, lwm, hyo, hyw, alf, pas	4.5	0.5, 1.5
VA	✓	✓	lwm, hwm, hyw, pas, alf	3, 6	0.25, 0.5
DE	-	-	-	-	-

AgWG recommendations – Scenarios

- Revision of continuous no-till BMP value
- Revision of Enhanced nutrient management BMP value
- Revision of commodity cover crop BMP effectiveness value
- All to work through process by 6/15

Forestry Work Group

- Already Implemented
 - Urban Tree Canopy
 - Avoided deforestation
- Significant changes to existing BMP definitions
 - Forest Management Plans
 - Combination Forest Buffer and wetland
 - Targeted Buffers
- Have not reached decision stage yet

Urban Workgroup

- Endorsement of the land use change
- Requested new definition of E3 for urban
 - To be discussed at the next WQGIT

Wastewater Workgroup

- Will submit some modifications to nonsignificant industrial wastewater treatment facility input data prior to recalibration
- Discussing E3 definitions for industrial wastewater treatment plants and CSOs
 - To be discussed at the next WQGIT

WTWG Recommendations

- Endorsement of land use and nutrient management changes
- E3 definition changes
 - To be discussed at the next WQGIT

WTWG Issues Raised

- Vegetative Cover
 - Cover over 100%
 - Degraded stream corridor too high
 - Large differences between segments
- High Range of EOS loading
- TSS loads and delivery factors
 - Error found in code affecting 2007, 2009, and trib strategy, but not No Action, calibration, or E3. New loads on the web

WQGIT decisions

- Decisions previously made
 - Land use
 - Nutrient Management
 - Manure disposal
- To be discussed
 - Pasture management
 - E3 definitions
- Not fully developed
 - Forestry BMPs
 - Data Issues