Ag Census Data: Fallow & Idle Acres

September 17, 2020

2012-2017 Ag Census Comparison

Ag Census Crop Categories:

"Cropland in cultivated summer fallow"

"Cropland idle or used for cover crops or soil improvement but not harvested and not pastured or grazed"

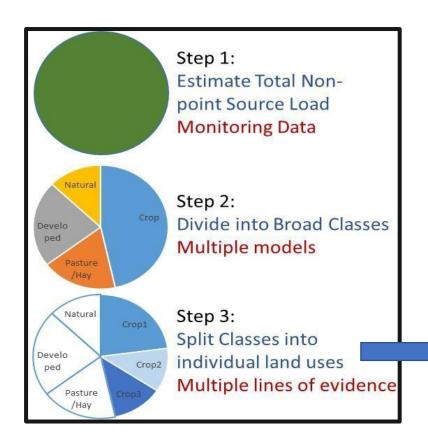


CBP Load Source:

"Other Agronomic Crops" Includes summer fallow, idle cropland, sod, tobacco, cotton, sweet corn, peanuts and dry edible beans

Are reported increases reflective of on-the-ground change?

• If not, explore mechanisms by which model inputs for CAST 2021 might be adjusted to counter-act and propose options for Partnership consideration.



Adapted from CAST Documentation

Table 2-7: Total nitrogen land use acres, relative rates, and average loading rate

Land class	Land Use	Acres	Loading Rate Ratio	Average Loading Rate (lbs/ac/yr)
	Double Cropped Land	165,396	0.79	30.87
Cropland	Full Season Soybeans	282,456	0.71	27.74
	Grain with Manure	389,811	1.4	54.7
	Grain without Manure: Reference land use	451,318	1.00	39.07
	Other Agronomic Crops	417,838	0.45	17.58
	Small Grains and Grains	291,677	0.84	32.82
Natural	True Forest: Reference Land Use	19,550,675	1.00	1.68
Pasture	Ag Open Space	140,316	0.43	5.07
	Legume Hay	728,148	0.74	8.72
	Other Hay	1,294,306	1.04	12.26
	Pasture: Reference Land Use	2,372,549	1.00	11.78

CRITICAL CONCEPT

Land use loading rates are:

- sensitive to changes in atmospheric deposition, fertilizer, manure, uptake, fixation & vegetative cover
- Influenced by composite crop types on a per county basis

Table 3-32: Uptake or removal per application goal unit

Crop	Nitrogen uptake per yield unit	Phosphorus uptake per yield unit	Application Yield Unit	Estimated from (U)ptake or (R)emoval
Corn for Grain Harvested Area	1.1894	0.2271	bushels	R
Corn for silage or greenchop Harvested Area	11.6252	3.3966	tons	U
Cropland idle or used for cover crops or soil improvement but not harvested and not pastured or grazed Area	0	0	acres	R
Cropland in cultivated summer fallow Area	0	0	acres	R
Pastureland and rangeland other than cropland and woodland pastured Area	140.5805	22.2666	acres	R
Soybeans for beans Harvested Area	5.3128	0.5442	bushels	R
Wheat for Grain Harvested Area	1.9299	0.3359	bushels	U

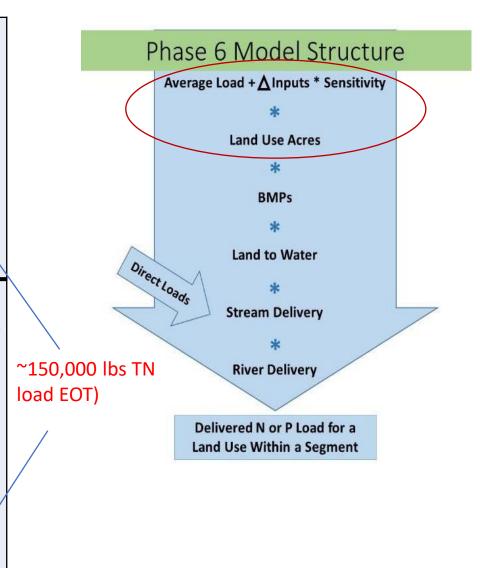
Crop removal
amount of nutrient
removed through
harvest

Crop uptake
includes nutrients
in the nonharvested portions
of the plant (stalks
& roots)

Cropland in cultivated summer fallow				
	2012 Area	2017 Area	<u>Change</u>	% Change
DE	575	788	213	37
MD	5693	9432	3739	66
NY	24388	39419	15031	62
PA	29664	50571	20907	70
VA	11543	15878	4335	38
WV	431	4124	3693	857
Total	72294	120212	47918	66

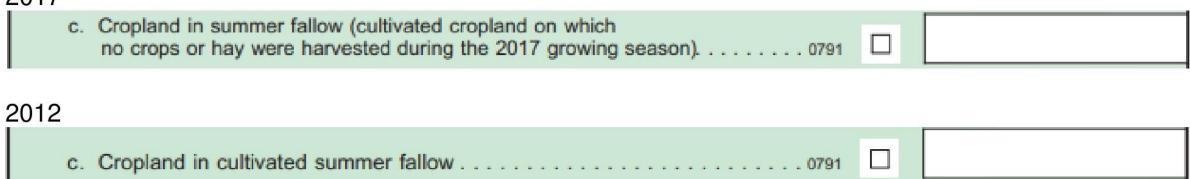
<u>Cropland idle of used for cover crops or soil improvement but not harveste</u>	ed and			
not nastured or grazed				

not pastared of grazed					
	2012 Area	2017 Area	<u>Change</u>	% Change	
DE	9219	8556	-663	-7	
MD	85703	97210	11507	13	
NY	115147	138155	23008	20	
PA	298783	297370	-1413	0	
VA	73030	116541	43511	60 /	
WV	9778	25172	15394	157	
Total	591660	683004	91344	15	



NASS Response: Aug 28

2017



Summer Fallow

- ↑20% nationwide
 - 44 states reported increase
 - % of tot. ag land increased: $1.5\% \rightarrow 1.9\%$
- WV
 - % of tot. ag land increased: 0.0003% → 0.0052%

Review of all WV Land Uses (incl. cropland idle)

- Changes in-line with historical data
- No questionnaire changes
- WV ag land 个2% from 2012
- Large ↑ for cropland idle & cropland failed
- Large ↓ for woodland pastures & permanent pasture
- No methodology changes since 2012

