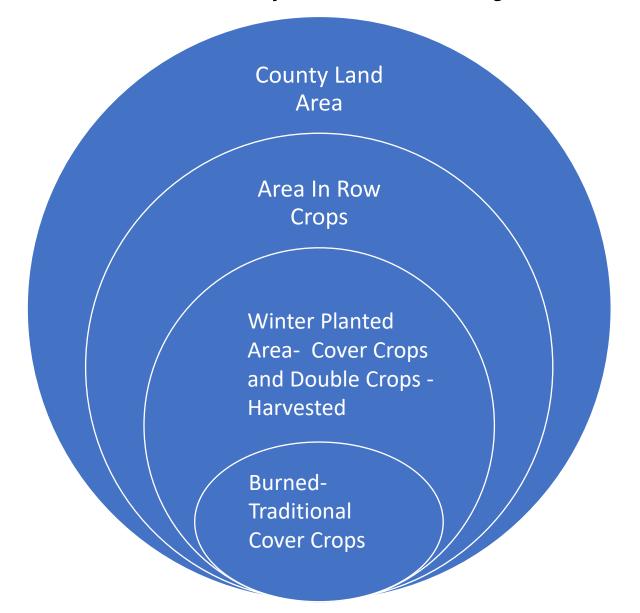
PADEP Proposal for Commodity Cover Crop Reporting

For AgWG Meeting June 17, 2022

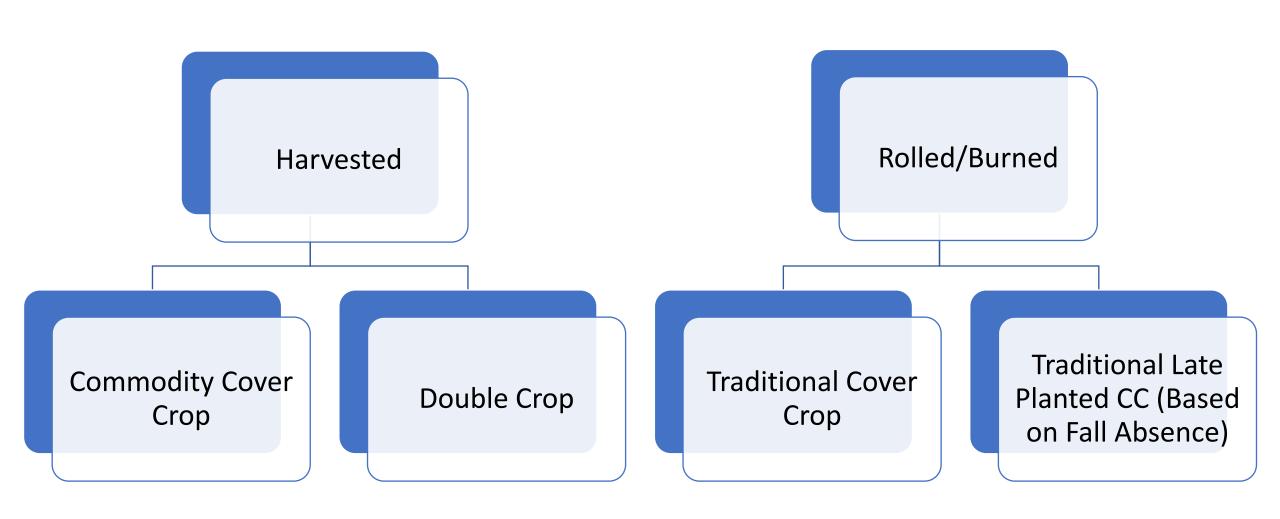
Transect Survey Method

- Approved for Traditional Cover Crops by AgWG Nov. 21, 2016
- Routes and Waypoints Developed in Counties with >50k Crop Acres
- Conducted on Two-Year Rotations, Roughly 13-14 Counties Per Year
- Three Member Team Driver, Observer, Recorder over 2-3 days
- QC Field Inspection Conducted Following Data Collection
- Fall Observations Planting of Winter Cover and Prior Crop Type
- Spring Observations Fate of Winter Cover, New Crop, Residue %
- Reported as a Percentage of Observations and Extrapolated to the County Row Crop Acreage Reported in CBWS Current Year Base Conditions Report

Transect Survey Data Objectives



How Spring Transect Observations Define Cover Crop Types



Status

- PADEP resented this calculation methodology as a concept at the May 19, 2022, AgWG Meeting
- No comments or concerns received
- Pennsylvania needs a means to collect and report Commodity Cover
 Crop data to meet WIP targets and document winter-vegetated fields
- Nutrients applied to a growing crop will be constrained and available for plant uptake compared to runoff and leaching from a fallow field
- Climate change is extending the winter growth season and increasing nutrient uptake rates

Calculation Process to Report Acres

Commodity/DC
Harvested
(or Standing)

Total % Observed Multiplied by Row Crop Acres Subtract Reported County Double Crop Acres Report Remaining Commodity Cover Acres, Negative Values Dropped

Traditional CC

Total % Observed Multiplied by Row Crop Acres Reported as Traditional Cover Crops, Normal Wheat Other

Traditional Late
Planted

Identified as
Burned Cover Not
Planted in Fall
Survey

Total % Observed Multiplied by Row Crop Acres Reported as Traditional Cover Crop, Late Wheat Other

Cover Crop Calculation Worksheet

County	RC Acres*	Trad CovCrop %	Trad CovCrop AC	CCC Winter Cover %	CCC Winter Cover Ac	Late CC%	Late CC AC
County 1	87,468	0.038	3324	0.3200	27990	0.0020	174.9
County 2	58,169	0.138	8027	0.2070	12041	0.0090	523.5
County 3	126,263	0.0893	11275	0.0030	379	0.0070	883.8
County 4	36,610	0.238	8713	0.3930	14388	0.0020	73.2
County 5	69,290	0.1822	12625	0.0030	208	0.0070	485.0
County 6	36,167	0.513	18554	0.0480	1736	0.0290	1048.8
County 7	470	0.0478	22	0.0480	23	0.0020	0.9
County 8	8,111	0.0478	388	0.0480	389	0.0020	16.2
County 9	52,829	0.1088	5748	0.0030	158	0.0070	369.8
County 10	63,185	0.0478	3020	0.0480	3033	0.0020	126.4

2021 survey 2020 survey 2019 survey

Minimum

Reporting Impact

- In Pennsylvania, based on 2021 reported Land Use the Transect Survey identified 206,859 acres of Harvested Winter Cover.
- The 2021 model Base Conditions reported 141,392 acres of Double Crop in Pennsylvania. After calculation, a total of 120,481 acres of Commodity Cover Crop were identified. (Note: the amount of Double Crop exceeded the reported Winter Cover acreage in 18/43 counties)
- The crediting of 120,481 acres of Commodity Cover Crop equates to an Edge of Tide reduction of 160,350 lbs/yr of Nitrogen, or 0.15% of our annual load (104.34 Mlbs/yr)

Conclusions

- Since 2016 Transect Surveys are an approved data collection/reporting method for Traditional Cover Crops
- We are seeking support in allowing Transect Survey methods to also report Commodity Cover Crops through annual Double Crop acreage removal
- Pennsylvania is working to encourage as much winter season planting as possible, counting acres makes for progress
- We know that there are more than zero acres of Commodity Cover Crop being planted and we need a means to report these acres in order to meet WIP targets
- We'll return next month to address any follow-up questions and ask for a consensus vote to allow Commodity Cover Crop reporting using the Transect Survey and Double Crop correction method presented
- Please contact Ted Tesler, Frank Schneider, or Kate Bresaw (PA AgWG) with your questions, comments, or suggestions