

**2018/2019 Winter Cover Crop for Nutrient Management
Program Requirements and Agreement**

Applicant (Operator) whose application is approved by the Department agrees to the following terms and conditions to be eligible to participate in the 2018/2019 Winter Cover Crop Program for nutrient management to reduce the leaching of excess crop nutrients into ground water during the fall and winter months to immobilize unused nitrogen from the root zone to reduce erosion.

The Operator Agrees:

1. A. To plant annual cover crops as provided in Chart 1B below on the Operator's farm in early fall which follows the harvest of corn, sorghum, soybeans, vegetables, or tobacco as the immediately preceding crop.
- B. Chart

Approved Cover Crop Varieties	Seeding Rate Per Acre ¹		Base Payment for Traditional Cover Crop Only	Statewide Planting Period for the Traditional Cover Crop Program ²	Aerial Planting Deadlines	BCSC and BCCP Planting Deadlines
	Bushels	Pounds				
Canola/Rape(Brassica)	0.16	8	\$30.00 ³	08/15-10/01	10/01	10/01
Forage Radish		10	\$45.00	08/15-10/01	10/01	10/01
Oats	3.00	96	\$45.00	08/15-10/01	10/01	10/01
Barley	2.50	120	\$45.00	08/15-10/15	10/06	10/15
Rye	2.00	112	\$55.00	08/15-11/05	10/07	10/15
Triticale	2.00	112	\$45.00	08/15-11/05	10/07	10/15
Wheat/Spelts	2.00	120	\$45.00	08/15-11/05	10/07	10/15
Ryegrass	0.83	20	\$45.00	08/15-10/15	10/07	10/15
Clover(as part of mix)		20	\$45.00	08/15-10/01	10/01	10/01
Hairy Vetch(as part of mix)		25	\$45.00	08/15-10/01	10/01	10/01
Winter Peas(as part of mix)		60	\$45.00	08/15-10/01	10/01	10/01

1. **Aerial and Aerial Ground applications require a 25% increase in the seeding rates listed above.**
2. **Seeding may begin on 08/15/2018 for all planting options.**
3. **Please note that the base payment for planting canola/rape as a single species is \$30.00, no reduction in payment when it is part of a mix.**
2. To plant a cover crop in accordance with NRCS Standards and Specifications for Cover Crops (Code 340), as provided in the chart 1.B above for seeding rate and planting date;
3. To be in strict compliance with all nutrient management requirements and in good standing with all other divisions of the Department of Agriculture (MDA) including but not limited to Maryland Agriculture Water Quality Cost-Share program (MACS) and Maryland Agriculture Land Preservation Foundation (MALPF), as a condition of eligibility for filing a claim for cover crop costs under this Agreement;
4. Except for animal wastes as described in paragraphs #6 and #7 below, nutrients from any nutrient source shall not be applied by the Operator to any acres enrolled in the 2018/2019 Winter Cover Crop Program before March 1, 2019. However, Potash and Lime may be applied by the Operator to acres enrolled in the cover crop program;
5. If manure utilization was part of the fertilization method for the previous Crop and manure was applied in the spring, the Operator agrees to report these acres to the Department on the Departmental certification form. On farm generation is not required for spring utilization of manure. Manure use acreage shall be consistent with and documented on the Annual Implementation Report (AIR) for the operation;
6. Fall application by the Operator of **non-poultry** manure to enrolled acreage is prohibited unless the following conditions are met:
 - A. The application of manure is managed in accordance with a certified Nutrient Management Plan(NMP) and is in accordance with the current Nutrient Management(NM) regulations;
 - B. No other vegetative acres are available on the farm;
 - C. The acreage that received manure shall be indicated on the Operator's submitted cover crop fall certification to the Department.
7. Fall application of **poultry** manure is prohibited unless the following conditions are met:

1. The application of manure is managed in accordance with a certified NMP and is in accordance with the current NM regulations;
 2. A whole house clean out has occurred;
 3. No other vegetative acres are available;
 4. The acreage that received manure must be indicated on the submitted cover crop fall certification.
8. All commercial seed purchased by the Operator for cover crops shall be **tested and properly labeled in accordance with Maryland Seed Law and Regulations**. All seed shall be free of prohibited noxious weed seed, have a minimum germination rate of 80%, and have no more than 16 restricted noxious weed seeds per pound. The following information shall be on the seed tags being submitted to the Department by the Operator: seed type, state of origin, test date, germination, and noxious weed count and purity results. The seed test shall not be more than **9 months old** at the time of planting. **Commercial seed labeled as "cover crop" shall meet the germination and noxious weed requirements of the program.**
9. If an Operator elects to use home grown seed, a representative sample must be submitted to **Maryland State Seed Testing Laboratory by October 1, 2018** to be tested for germination and noxious weeds before it is planted as a cover crop. **Please be advised: If seed test results are not received by the Operator before planting to ensure seed meets standards of the program, the Operator risks these acres not being eligible by the Department for the program.** Please see the Seed Sampling Guidelines Handout for additional information. (Seed testing by Pennsylvania and Delaware Seed Testing Laboratories are **not** permitted for this program.) All seed shall be free of prohibited noxious weed seed, have a minimum germination rate of at least 80%, and have no more than 16 restricted noxious weed seeds per pound. The seed test shall be no more than **9 months old** at the time of planting. **Seed that has a germination of 65% to 79% may be used however those acres will be subject to a performance based spot check. If those acres do not meet certain density standards they will not be eligible for payment. Guidelines regarding increased seeding rates will be available at the local SCD offices.**
10. To establish the cover crop, the Operator or hired contractor shall use one of the following **APPROVED PLANTING METHODS** to ensure **good seed to soil contact by using the best planting method possible**:
1. **No-till:** utilizing a **no-till drill**;
 2. **Conventional:** prepare seedbed using primary tillage (plow, chisel) or secondary tillage (disking) then seeding with a conventional drill;
 3. **Broadcasting:** broadcast seeding followed by light disking or other approved methods to ensure seed to soil contact. The date recorded as the planting date for this method is the date of seed incorporation. Approved incorporation methods eligible for this option include vertical tillage equipment and certain light tillage equipment such as a Phillips Harrow. **Please contact the local SCD with any questions regarding tillage equipment before planting.**
 4. **Aerial Seeding:** seeding into a standing approved previous crop (such as corn, soybeans or sorghum) All aerial seeding methods must use 25% more seed and the seeding shall be completed by **October 7, 2018**.
 5. **Aerial seeding into standing double crop soybeans is allowed**, however these acres will have a base payment of only \$35/ac and the only incentive that these acres will be eligible for is the Rye incentive.
 6. **Broadcast/stalk chopping (BCSC):** broadcasting of seed followed by stalk chopping (corn or sorghum). **This planting method must occur by October 15, 2018.**
 7. **Broadcast/cultipacker (BCCP):** broadcasting of seed followed by a cultipacker (corn or sorghum). **This planting method shall occur by October 15, 2018.**
11. The cover crop shall be properly maintained by the Operator for the duration of this cover crop Agreement.
12. Grazing or "green chopping" for livestock forage is allowed after the fall crop is well established, but only for the applicants own use but it **may not be sold**.
13. The use of unapproved cover crop mixes is prohibited; however, the use of approved cover crop species in plant mixes are allowed as follows: **Applicants can mix Canola/Rape, Forage Radish and/or one of the listed Legume varieties in chart 1B with the following approved cover crop species: Wheat, Rye, Triticale, Oats, Barley and Ryegrass. When using 2 species the rate would be 50/50, when using 3 species a 50/25/25 mix can be used with the cereal grain representing the 50.** However, if a mix is used the crop with the earliest planting date will determine the planting date deadline. If planting a mix including Canola/Rape, Forage Radish and/or a legume the mix must be planted by 10/01. Applicants may also mix any of the cereal grains. Again the species with the earliest planting date will determine the planting deadline. Seeding rate charts are available at your local SCD office.
14. The Operator is eligible for incentive payments as determined by the Department, for **MACS INCENTIVE OPTION requirements for Traditional Cover Crop** for planting methods and for planting dates as provided as follows:

Traditional Cover Crop Payment Options	No-Till	Conventional	Broadcast w/light tillage/ Minimum Tillage or Vertical Tillage	Aerial	Broadcast Stalk Chop/ Aerial Ground and Broadcast Cultipacker
Base Payment	\$45/acre	\$45/acre	\$45/acre	\$50/acre	\$45/acre
Plant by October 1, add:	\$20/acre	\$10/acre	\$10/acre	\$0	\$0
or Plant by October 15, add:	\$10/acre	\$5/acre	\$5/acre	\$0	\$0
Plant rye, add:	\$10/acre	\$10/acre	\$10/acre	\$10/acre	\$10/acre

15. The Operator agrees to certify compliance with the Cover Crop Program as follows:

- A. Within one week of planting the cover crop but no later than the dates listed in the chart below, the Operator shall certify planting information with the local Soil Conservation District that the Operator is in compliance with all eligibility requirements of the Cover Crop Program.

MACS INCENTIVE FOR 10/01 PLANTING DEADLINE ¹	MACS INCENTIVE FOR 10/15 PLANTING DEADLINE ²	MACS BASE PAYMENT PLANTING DEADLINE 11/05
Certification Deadline 10/09	Certification Deadline 10/22	Certification Deadline 11/13

¹MACS early planting bonus- planting must occur on or before October 1, 2018.

²MACS second tier early planting bonus- planting must occur on or before October 15, 2018

- B. The Operator shall submit the following to the local SCD with the fall certification form:

1. Aerial maps showing fields planted.
2. Seed tags for purchased seed and seed tests for home grown seed. **The seed tags need to be signed by the Operator and any seed tests not in the Operator's name shall also be signed.**
3. Invoices or flight maps from any aerial service provider showing date planted, acres seeded, seeding rate in pounds, cover crop planted and the previous crop. The aerial bills need to be signed by the Operator.
4. Invoices for acres that are certified as aerial ground shall also be submitted. These invoices shall reflect the date planted, crop planted, seeding rate, the previous crop and the number of acres planted. The aerial ground bills shall be signed by the Operator.

- C. The Operator shall allow SCD personnel to conduct random Spot-Checks to verify compliance with program guidelines as follows: **If there are multiple farms and or fields fall certified, SCD personnel will be allowed to check an average of 20% of the farm/fields certified. If the Operator has farm/fields in different planting tiers, 20% of the farm/fields from each tier shall be checked.** At least one farm/field for each applicant will be spot checked by SCD personnel. These locations will be determined randomly by the SCD's. SCD's will submit completed forms for receipt by the MACS office no later than **December 17, 2018.**

1. The Operator agrees after review by the SCD or the MACS office if it is determined that an Operator has failed to provide required documentations as provided in paragraph 15B, then any MACS Cover Crop Agreement(s) for the acreage in question will be cancelled by the MACS Administrator and any claims for payment denied.
2. The Operator agrees that if, as a result of a spot-check, the SCD or MDA determines an Operator has submitted false, misleading or inaccurate information on the Operator's Fall/Spring Certification form, or if the cover crop does not meet program requirements (planting deadline, planting method, crop type, etc.), **all cover crop agreements** for that applicant are null and void and shall be cancelled by the MACS Administrator and any claim for payment denied.
3. An Operator whose agreement has been cancelled may be placed on probation for one year by the MACS Administrator; during probation the Operator shall be ineligible to participate in any MACS Program.

- D. If an optional partial payment of \$25.00 per acre is requested by the Operator for acres fall certified **and after that partial payment is made by the Department, it is determined that the amount paid exceeds the final eligible payment due after spring certification, the Operator agrees to reimburse the Department for any over payment.**

16. The Operator agrees that the following requirements apply to the Operator's cover crop, inspection, the fall/spring certification and the Operator's claim for payment.

- A. Spring kill-down or suppression may not occur before **March 1, 2019**, unless the operator plans to plant an early season vegetable crop. Kill down may occur as early as February 15, 2019, when planting early vegetable crops; however it is expected that the vegetable crop will be planted within 2 weeks of kill down.
- B. Options for end of winter management by the Operator include green chopping (for on-farm use only), plowing under, or killing by using a burn-down herbicide. Grazing of a cover crop does not qualify as an acceptable spring kill-down method.
- C. Spring spot checks will be completed by SCD/MDA personnel to verify compliance and accuracy of information provided by the Operator. This spot check will occur prior to final payment being issued.
- D. Within two weeks after the Operator's kill-down or suppression of the cover crop, but no later than **June 3, 2019**, the Operator shall certify to the SCD that the cover crop has been suppressed or killed down. The SCD will enter the appropriate information into the Spring Certification section of the application. The final cost-share payment by MDA will be determined by the number of qualified acres which have met all of the program requirements, less any fall payments received and not to exceed the approval amount on the Operator's original application.
- E. The Operator's Spring Certification/Claim submission shall be received by MDA's MACS office no later than **June 14, 2019, or payment will be denied.**
- F. **At the time of Spring Certification, the Operator shall have submitted the Operator's Annual Implementation Report (AIR) to the MDA Nutrient Management Program for the previous calendar year in order to meet the nutrient management cross-compliance guidelines. No Spring Payment will be issued by MDA until the AIR is complete and on file with MDA.**

17. The Operator agrees to all of the following general requirements and conditions of MDA's Cover Crop Program:

- A. I agree to allow reasonable access by Soil Conservation District/MDA staff for Spot Checks for the purpose of verifying program guidelines have been followed including stand establishment; kill down, manure application, etc.
- B. I agree that I will meet and maintain compliance with State nutrient management requirements throughout the life of the cover crop contract as outlined in paragraph 3.
- C. In the event that any partial payment based on the fall certification exceeds the final eligible payment due after spring certification, I agree to reimburse MDA for any over payment.
- D. I understand that any outstanding charges that I may have incurred with the Maryland Seed Testing Laboratory must be satisfied before final payment of the cover crop contract will be made.
- E. I have read, understand and agree with policies set forth in the preceding agreement in regards to establishing and maintaining the cover crop for the 2018/2019 Winter Cover Crop Program.
- F. I agree that MDA may deny to pay any claims for payment under MDA's Cover Crop Program, if the Operator is in violation of any requirement or condition under the Cover Crop Program, or if any claim for payment is based on false, misleading or fraudulent information.
- G. I have read, understand and agree with the policies set forth in the preceding agreement in regards to the payment rate for aerially seed double crop soybeans which is \$35/ac and not other incentives apply except for the Rye incentive.
- H. I understand that if my lease is terminated during the contract life of this agreement MDA is not required to issue a payment for the cover crop planted. If I no longer have control over the termination of the cover crop and received a fall partial payment I will have to repay Maryland Department of Agriculture any funds received.



Maryland Department of Agriculture

Office of Resource Conservation

Larry Hogan, Governor
 Boyd K. Rutherford, Lt. Governor
 Joseph Bartenfelder, Secretary
 Julianne A. Oberg, Deputy Secretary

Conservation Grants Program

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8/15/2018

**2018/2019 Cover Crop Program
 Low Germination Seeding Guideline**

Germination Rate	Rye lbs/ac	Wheat lbs/ac	Triticale lbs/ac	Barley lbs/ac	Current Requirements
80%	112	120	112	120	
79%	114	122	114	122	
78%	115	123	115	123	
76%	118	126	118	126	
75%	120	128	120	128	
74%	122	130	122	130	
73%	123	132	123	132	
72%	125	133	125	133	
71%	127	135	127	135	
70%	129	137	129	137	
69%	130	139	130	139	
68%	132	141	132	141	
67%	134	143	134	143	
66%	136	145	136	145	
65%	138	148	138	148	

***The seeding rates above are for incorporation planting methods.

****Aerial and Aerial ground would require an increase of 25%

****The above adjusted seeding rates need to be considered when planting a mix.



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2018/2019 Cover Crop Seeding Rate Chart for Mixes

Cover Crop Species	Seeding Rate Single Species in pounds	50% of single species rate for Incorporated	25% of single species rate as part of 3 way mix
Canola Rape(brassicas)	8	4	2
Forage Radish	10	5	2.5
Oats	96	48	24
Barley	120	60	30
Rye	112	56	28
Triticale	112	56	28
Wheat/Spelts	120	60	30
Ryegrass	20	10	5
Clover(only as part of mix)	20	10	5
Hairy Vetch(only as part of mix)	25	12.5	6.25
Winter Peas(only as part of mix)	60	30	15

Two species cover crop mixes must be planted at a rate of 50% eligible cereal grain and 50% other eligible crop

Three species cover crop mixes must be planted at a rate of 50% eligible cereal grain and 25% other eligible crop and 25% other eligible crop

When planting using the aerial seeding method you must increase all rates by 25%.

Here are some examples of a 3 way-mixes(incorporated seeding rates)

Triticale	56 lbs
Oats	24 lbs
Ryegrass	5 lbs

Wheat	60 lbs
Clover	5 lbs
Forage Radish	2.5 lbs

Oats	48 lbs
Forage Radish	2.5 lbs
Canola/Rape	2 lbs

Rye	56 lbs
Clover	5 lbs
Canola/Rape	2 lbs