

FOR A HEALTHIER CHESAPEAKE BAY

MARYLAND AGRICULTURAL WATER QUALITY COST-SHARE PROGRAM

MACS WORKING

2018 ANNUAL REPORT



Message from the Secretary

A longtime high school football coach once told me, "if you play the game long enough, you'll finish in first place and you'll finish in last place, but most of the time, you'll finish somewhere in the middle." The same holds true for any long-lived program. This year on the eve of our 30th anniversary of helping farmers finance conser-

vation practices on their farms—the MACS Program came up against an opponent we simply could not overcome—the weather.

Persistent rainfall throughout the fiscal year delayed construction of structural best management practices, wreaked havoc with the cover crop planting, and waterlogged fields that were slated to be planted in conservation cover.

Nevertheless, the program made significant strides in helping farmers protect natural resources on their farms. Our Manure Transport Program moved a record-setting 249,421 tons of manure away from areas with high soil phosphorus levels. This is the sixth consecutive year of growth for the transport program and we expect that growth to continue as the phased-in transition to the Phosphorus Management Tool moves forward.

Installation of animal mortality facilities, manure storage structures, heavy use areas, and roof runoff structures remained strong as poultry and livestock farmers improved their management of manure resources. Stream protection projects involving the installation of alternative water sources, livestock crossings, and livestock exclusion fencing moved forward during the year, while grade stabilization structures and grassed waterways remained popular with farmers seeking to keep valuable topsoil from washing away.

Fields planted to cover crops to reduce erosion and take up residual nitrogen were down in Fiscal Year 2018. A late spring planting delayed the harvest of cash crops, giving farmers too little time to get their fields planted before the cold weather set in. Nevertheless, farmers planted almost 400,000 acres of traditional cover crops statewide during the 2017-2018 planting season. An additional 161,332 acres of cover crops were planted by farmers for harvest during the year without the benefit of state cost-share funds.

The following report more fully describes how MACS works hand in hand with Maryland farmers to place best management practices on the land to protect our streams, rivers, and the Chesapeake Bay.

Josph Bartufeller

Joe Bartenfelder, Maryland Agriculture Secretary

MACS AT WORK FOR THE BAY

For nearly three decades, the Maryland Agricultural Water Quality Cost-Share (MACS) Program has been helping farmers install water quality improvement projects on their farms, invest in sustainable agricultural practices, and comply with federal, state, and local environmental requirements.

MACS provides farmers with conservation grants that cover up to 87.5 percent of the cost to install a wide range of best management practices on their farms to control erosion, manage nutrients, and protect water quality. Cover crops planted after the harvest to recycle unused fertilizers, grassed waterways installed to protect fields from soil and gully erosion, streamside buffers planted to filter nutrients before they reach waterways, and animal waste storage facilities constructed to help farmers manage manure resources were among 30 best management practices eligible for MACS funding in Fiscal Year 2018. land's ongoing efforts to restore clean water in the Chesapeake Bay and its tributaries by 2025. Delivered by the state's 24 soil conservation districts with technical guidance from USDA's Natural Resources Conservation Service, MACS grants allow farmers to install highly valued best management practices on their farms that help Maryland meet nutrient and sediment reduction goals outlined in its federally approved Watershed Implementation Plan to restore the Bay.

MACS is a key feature in Mary-

Chesapeake Bay Cleanup—Midpoint Assessment

Fiscal Year 2018 represented the start of the final phase of the multi-state Bay cleanup effort that began in 2010 and is being led by the U.S. Environmental Protection Agency. The midpoint assessment of the program's progress through 2017 determined that Bay jurisdictions have made considerable progress in reducing pollution. In 2018, modeling tools used to gauge the cleanup's progress were updated with the latest science. The updated model shows that while Maryland is on track to meet its phosphorus and sediment reduction goals, additional focus is needed to reduce nitrogen levels in the Bay. Maryland is developing its third and final Watershed Implementation Plan to address remaining nutrient reductions.

The plan will build on previous statewide and local efforts and will be completed and submitted for public comment in April 2019. Progress in meeting the new Phase III strategies will be reported once the final Watershed Implementation Plan is approved.

MACS

WORKING

Midpoint Assessment Results: The Bay is Getting Healthier

For the first time in decades...

- Underwater grasses have exceeded 100,000 acres
- Blue crab and oyster populations are increasing
- Water quality trends show consistent improvement in many watersheds

LIVESTOCK WATERING FACILITIES PROVIDE ANIMALS WITH A RELIABLE SOURCE OF WATER AWAY FROM STREAMS, PONDS OR WELLS.

2018 Funding Summary

In Fiscal Year 2018, the Maryland Agricultural Water Quality Cost-Share (MACS) Program provided Maryland farmers with \$25.2 million in costshare grants to install 2,008 conservation projects on their farms to protect water quality. Grants cover up to 87.5 percent of the cost to install eligible best management practices. Farmers receiving these grants invested about \$730,000 of their own money into projects that will prevent an estimated 2.5 million pounds of nitrogen, 100,107 pounds of phosphorus, and 5,225 tons of soil from entering Maryland waterways.

Low Interest Loans for Agricultural Conservation (LILAC) provide farmers with upfront funds to get a project started. Guaranteed by the Maryland Water Quality Revolving Loan Fund, LILAC loans are typically offered at below market rates and are available at participating lending institutions statewide. In Fiscal Year 2018, MACS provided \$296,060 in LILAC loans to help farmers pay for manure handling and conservation equipment, no-till equipment, waste storage structures, and heavy use areas.



PROGRAM SUMMARY FISCAL YEAR 2018

| Capital Projects | Number of Projects | Funds | |
|--|-----------------------|---------------------------|--|
| Total Approved from State Funds | 259 | \$6,846,961 | |
| | | | |
| Capital Projects Completed | | | |
| CREP Projects with State Funds | 54 | \$200,195 | |
| All Other Projects with State Funds | 139 | \$4,750,250 | |
| With Federal Funds | 22 | \$149,916 | |
| Total Capital Projects Completed | 215 | \$5,100,361 | |
| | | | |
| Special Projects Completed | | | |
| Cover Crops | 1,443 | \$18,826,112 | |
| Manure Transport ¹ | 307 | \$1,020,910 | |
| Manure Injection | 43 | \$311,460 | |
| Total Special Projects Completed | 1,793 | \$20,158,482 | |
| Total Capital & Special Projects Completed | 2,008 | \$25,258,843 ² | |
| | | | |
| Environmental Benefits | Nitrogen | Phosphorus | |
| Estimated Pounds of Nutrients Removed by Capital Projects | 103,900 | 20,934 | |
| Estimated Pounds of Nutrients Removed by Cover Crops | 2,375,172 | 79,173 | |
| | | | |
| | Tons of Soil | Acres of Land | |
| Tons of Soil Saved Per Year ³ | 5,225 | 495 | |
| | | | |
| Manure Managed Daily with Animal Waste Storage Structures | Tons of Manure | Animal Units⁴ | |
| Poultry Manure Managed Daily | 680 | 50,328 | |
| Dairy Manure Managed Daily | 223 | 4,961 | |
| Beef Manure Managed Daily | 58 | 1,667 | |
| Other Animal Manure Managed Daily | 4 | 213 | |
| Total Animal Manure Managed Daily | 965 | 57,169 | |

¹Does not include poultry company matching funds (\$453,876)

²Includes approximately \$14 million in special funds from the Chesapeake and Atlantic Coastal Bays 2010 Trust Fund

³Based on the Revised Universal Soil Loss Equation (RUSLE) ⁴One animal unit = 1,000 lbs. of live animal weight

Note: Nutrient reduction figures are based on the best information available and are consistent with the Chesapeake Bay Model.



Capital Projects

The majority of the conservation projects funded by the Maryland Agricultural Water Quality Cost-Share Program are financed through the capital program by the sale of general obligation bonds. In Fiscal Year 2018, MACS provided farmers with \$5.1 million to install 215 conservation projects on their farms containing 329 best management practices. Record rainfall in 2018 slowed construction projects and schedules, especially those involving grading and concrete work. However, construction of manure storage facilities, heavy use areas, and roof runoff structures remained strong as poultry and livestock farmers worked to improve the way they manage manure resources. In addition, 21 livestock watering facilities, 13 stream crossings and 23 livestock exclusion fencing projects were installed during the year by farmers working to protect local streams from animal impacts. (Please see center spread for a complete listing of best management practices installed with capital funds during Fiscal Year 2018.)

SOIL CONSERVATION DISTRICT SUMMARY FOR CAPITAL PROJECTS FISCAL YEAR 2018

| District | Completed Projects | MACS Payment |
|-------------------|---------------------------|--------------|
| Allegany | 2 | \$9,872 |
| Anne Arundel | 1 | \$5,118 |
| Baltimore County | 6 | \$84,758 |
| Calvert | 3 | \$31,868 |
| Caroline | 16 | \$954,470 |
| Carroll | 36 | \$437,673 |
| Catoctin | 10 | \$267,546 |
| Cecil | 3 | \$87,844 |
| Dorchester | 4 | \$15,553 |
| Frederick | 18 | \$452,361 |
| Garrett | 1 | \$8,983 |
| Harford | 9 | \$295,460 |
| Howard | 1 | \$3,516 |
| Kent | 10 | \$59,625 |
| Montgomery | 2 | \$17,046 |
| Prince George's | 4 | \$18,466 |
| Queen Anne's | 29 | \$683,156 |
| Somerset | 3 | \$271,127 |
| St. Mary's | 11 | \$83,687 |
| Talbot | 6 | \$62,327 |
| Washington County | 20 | \$324,429 |
| Wicomico | 10 | \$515,192 |
| Worcester | 10 | \$410,284 |
| Total | 215 | \$5,100,361 |

Storage sheds help protect poultry litter from the elements. They allow farmers to safely transport or spread manure on fields following their nutrient management plans.



COMPLETED MACS COST-SHARED PRACTICES BY DISTRICT FOR FISCAL YEAR 2018

| PRACTICES Jossiphi for the second | 1 1 |
|--|--------|
| Conservation Cover Image: Cover Image: Conservation Cover< | 1 |
| Contour Farming Image: Contour Orchard Image: C | 1 |
| Contour Orchard | |
| | |
| Critical Area Planting 2 | |
| | |
| Diversion 1 | |
| Fencing 1 1 5 | 1 |
| Field Border | |
| Filter Strip | |
| Forage & Biomass Planting | |
| Grade Stabilization Structure | |
| Grassed Waterway 1 9 2 | 3 |
| Heavy Use Area Protection 2 8 3 2 1 | 3 6 |
| Lined Waterway or Outlet | |
| Livestock Pipeline | |
| Riparian Forest Buffer 1 2 4 | 1 3 |
| Riparian Herbaceous Cover 1 | |
| Roof Runoff Structure 1 1 2 | 3 |
| Roofs and Covers 2 2 | 3 |
| Sediment Basin | |
| Sediment Control Pond | |
| Spring Development 1 2 3 | |
| Stream Crossing 1 1 6 | |
| Strip Cropping, Contour | |
| Strip Cropping, Field | |
| Terrace System | |
| Vegetated Treatment Area | |
| Waste Storage Structure 1 9 4 3 1 | 6 |
| Waste Treatment Lagoon | |
| Wastewater Treatment Strip | |
| Water Control Structure | |
| Water Well 1 | |
| Watering Facility 1 1 2 2 2 | 1 1 |
| Wetland Restoration | |
| Total 3 1 9 8 24 40 16 3 0 | 5 28 |

| | | | | | | | | | | | | | | | .90 |
|--------|--------|------|------|------|----------|----------------|--------|-----------|--------|--------|--------|---------------------|----------|--------------|--------------------|
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SPECIAL PROJECT GRANTS

MACS receives special funding from the Chesapeake Bay Restoration Fund and the Chesapeake and Atlantic Coastal Bays 2010 Trust Fund to finance highly valued best management practices included in Maryland's cleanup plan for the Bay. These include the state's popular Cover Crop Program and the contract signing incentive payment for the Conservation Reserve Enhancement Program (CREP), along with portions of the Manure Transport Program, and grants to hire personnel and equipment to inject manure below the soil surface to reduce odors and nutrient losses.

Cover Crop Program

The Cover Crop Program is the largest and most popular cost-share program offered by MACS. Each fall, farmers plant thousands of acres of cereal grains, legumes, and other types of cover crops on their fields to scavenge leftover nutrients from the previous crop, protect against wind and water erosion, and improve the health of the soil for the next year's crop. MACS provides grants to help farmers offset seed, labor, and equipment costs associated with planting cover crops. In Fiscal Year 2018, a late harvest combined with heavy rains and poor field conditions played a significant role in reducing the annual cover crop planting. During the 2017-2018 planting season, farmers planted 395,862 acres of traditional cover crops statewide using \$18.8 million in MACS cost-share grants. This figure does not include approximately 161,332 acres of cover crops planted for harvest, which were not eligible for MACS cost-share this year.



The Cover Crop Program is the department's largest and most popular cost-share program. A late harvest combined with heavy rains and poor field conditions reduced this year's annual planting.

COVER CROP PROGRAM 2017-2018

| 2017 2010 | | | |
|----------------------|-----------|----------------------|--------------|
| District | Contracts | Fall Certified Acres | MACS Payment |
| Allegany | 9 | 392 | \$23,701 |
| Anne Arundel | 27 | 3,518 | \$206,283 |
| Baltimore County | 35 | 7,728 | \$403,766 |
| Calvert | 16 | 2,281 | \$94,237 |
| Caroline | 127 | 33,759 | \$1,595,981 |
| Carroll | 112 | 19,967 | \$950,550 |
| Cecil | 66 | 14,280 | \$727,940 |
| Charles | 34 | 4,678 | \$229,542 |
| Dorchester | 95 | 33,595 | \$1,624,965 |
| Frederick & Catoctin | 159 | 29,092 | \$1,361,586 |
| Garrett | 18 | 916 | \$55,226 |
| Harford | 72 | 13,264 | \$652,940 |
| Howard | 15 | 1,951 | \$102,391 |
| Kent | 111 | 49,916 | \$2,526,209 |
| Montgomery | 36 | 15,958 | \$572,897 |
| Prince George's | 14 | 1,627 | \$84,393 |
| Queen Anne's | 126 | 49,975 | \$2,348,953 |
| St Mary's | 56 | 5,995 | \$261,619 |
| Somerset | 34 | 9,475 | \$419,951 |
| Talbot | 77 | 40,803 | \$1,876,074 |
| Washington County | 65 | 6,490 | \$319,378 |
| Wicomico | 77 | 22,278 | \$1,138,260 |
| Worcester | 62 | 27,924 | \$1,249,270 |
| Total | 1,443 | 395,862 | \$18,826,112 |



Manure Transport Program

Protecting the Bay from excess phosphorus is vital to restoring its health. While poultry litter and livestock manure make a great natural fertilizer and soil conditioner, they often contain more phosphorus than crops require. This can result in an over-application of phosphorus when farmers use manure to meet the nitrogen needs of their crops. Typically, farm fields where manure or poultry litter has been used as a fertilizer over an extended period of time are at an increased risk for phosphorus overenrichment.

For nearly two decades, the Manure Transport Program has been providing grants to help poultry, dairy, beef, and other livestock producers transport manure away from farms with high soil phosphorus levels to other farms or alternative use facilities that can use the resource safely based on their nutrient management plans. The program has experienced extraordinary growth in recent years as farmers began transitioning to the Maryland Phosphorus Management Tool to help them protect waterways from phosphorus runoff.

In Fiscal Year 2018, the transport program provided Maryland farmers with \$1.02 million in grants to transport 249,421 tons of manure to approved farms and businesses as a valuable crop fertilizer and soil conditioner. Delmarva poultry companies provided \$453,876 in matching funds to transport poultry litter, bringing the total amount of financial support provided through the transport program to \$1,474,786. Approximately 21 percent of the manure was poultry

The Poultry Litter Transport Program had its biggest year ever as farmers continue to transition to the Phosphorus Management Tool.

MANURE TRANSPORT PROGRAM PAYMENT SUMMARY

| Fiscal Year | Actual Tons Transported | MACS Payment | Poultry Companies Cost-Share Payment* | Total Funds Issued |
|-------------|----------------------------|--------------|--|-----------------------|
| 1999 | 1,896 | \$17,992 | \$17,992 | \$35,984 |
| 2000 | 13,366 | 111,464 | 111,464 | \$222,928 |
| 2001 | 20,477 | 195,559 | 195,559 | \$391,118 |
| 2002 | 47,481 | 434,610 | 420,395 | \$855,005 |
| 2003 | 28,556 | 233,444 | 229,645 | \$463,089 |
| 2004 | 40,755 | 295,356 | 285,806 | \$581,162 |
| 2005 | 36,329 | 239,196 | 200,113 | \$439,309 |
| 2006 | 69,009 | 380,694 | 293,728 | \$674,422 |
| 2007 | 99,297 | 490,011 | 356,955 | \$846,966 |
| 2008 | 99,817 | 520,357 | 370,985 | \$891,342 |
| 2009 | 119,892 | 663,177 | 504,024 | \$1,167,201 |
| 2010 | 80,899 | 469,398 | 402,846 | \$872,244 |
| 2011 | 61,150 | 354,011 | 294,383 | \$648,394 |
| 2012 | 35,554 | 297,587 | 283,951 | \$581,538 |
| 2013 | 52,481 | 377,007 | 339,252 | \$716,259 |
| 2014 | 118,995 | 608,259 | 419,929 | \$1,028,188 |
| 2015 | 167,237 | 851,304 | 409,548 | \$1,260,852 |
| 2016 | 213,151 | 954,300 | 447,882 | \$1,402,182 |
| 2017 | 241,941 | 1,174,690 | 453,038 | \$1,627,728 |
| 2018 | 249,421 | 1,020,910 | 453,876 | \$1,474,786 |
| Total | 1,797,704 | \$9,689,326 | \$6,491,371 | \$16,180,697 |

*Dairy, beef and other non-poultry livestock producers do not receive matching funds from poultry companies.

litter that was shipped to alternative use facilities and not land applied. The remaining manure was applied to crop fields in accordance with Maryland's nutrient management regulations.

During the year-following up on

the success of its new 48-Hour Fast Track grant approval program to move poultry litter out of nutrient-sensitive areas quickly and efficiently—the program simplified its application process to haul non-poultry manure.



Conservation Reserve Enhancement Program

Protecting the health of the streams and rivers that feed the Chesapeake Bay is critical to protecting the Bay itself. Maryland's Conservation Reserve Enhancement Program is a federal-state partnership program that pays annual rental payments to landowners who agree to take environmentally-sensitive cropland near streams out of production and instead create streamside buffers, wetlands, or wildlife habitat. Participation in CREP is voluntary and the contract period is typically 10 to 15 years. MACS provides participating landowners with cost-share grants to install stream fencing, livestock crossings, watering troughs, and other best management practices on enrolled lands. In Fiscal Year 2018, MACS provided landowners with \$200,195 in grants to install 54 stream protection projects. In addition, special funds were used to award a \$100/acre signing bonus to landowners who enroll or re-enroll land in the program. In Fiscal Year 2018, landowners received \$709,208 in signing bonuses.



STREAMSIDE BUFFERS HELP PREVENT POLLUTION FROM ENTERING WATERWAYS, STABILIZE STREAMBANKS, PROVIDE FOOD AND COVER FOR WILDLIFE, AND KEEP STREAMS COOL IN SUMMER.

CREP PROJECTS COMPLETED BY DISTRICT FISCAL YEAR 2018

| District | Completed Projects | MACS Payment |
|-------------------|-----------------------|-----------------|
| | - | |
| Allegany | 1 | \$3,024 |
| Baltimore County | 1 | \$1,232 |
| Carroll | 16 | \$60,176 |
| Dorchester | 1 | \$509 |
| Frederick | 6 | \$16,817 |
| Howard | 1 | \$3,516 |
| Kent | 7 | \$15,784 |
| Queen Anne's | 7 | \$4,182 |
| Talbot | 1 | \$16,042 |
| Washington County | 13 | \$78,913 |
| Total | 54 | \$200,195 |



Manure Injection Grants

This grant program helps farmers comply with Maryland's nutrient management regulations while making the most of manure resources. Research has shown that injecting manure into the soil—as opposed to spreading it on top—helps prevent nutrient and phosphorus runoff, reduces odors, and preserves beneficial surface residue.

Cost-share assistance is available to hire custom operators, rent or lease equipment, or offset operating costs associated with injecting manure into the soil. In Fiscal Year 2018, MACS provided 43 farmers with \$311,460 in manure injection grants.



INJECTING MANURE INTO THE SOIL INSTEAD OF SPREADING IT ON TOP CUTS DOWN ON ODORS, KEEPS VALUABLE NUTRIENTS IN THE FIELD, AND IS COMPATIBLE WITH NO-TILL SYSTEMS.



MARYLAND'S SOIL CONSERVATION DISTRICTS

| Allegany | 301-777-1747, ext. 3 |
|-------------------|----------------------|
| Anne Arundel | 410-571-6757 |
| Baltimore County | 410-527-5920, ext. 3 |
| Calvert | 410-535-1521, ext. 3 |
| Caroline | 410-479-1202, ext. 3 |
| Carroll | 410-848-8200, ext. 3 |
| Catoctin | 301-695-2803, ext. 3 |
| Cecil | 410-398-4411, ext. 3 |
| Charles | 301-638-3028 |
| Dorchester | 410-228-5640, ext. 3 |
| Frederick | 301-695-2803, ext. 3 |
| Garrett | 301-501-5856, ext. 3 |
| Harford | 410-638-4828 |
| Howard | 410-313-0680 |
| Kent | 410-778-5150, ext. 3 |
| Montgomery | 301-590-2855 |
| Prince George's | 301-574-5162, ext. 3 |
| Queen Anne's | 410-758-3136, ext. 3 |
| St. Mary's | 301-475-8402, ext. 3 |
| Somerset | 410-621-9310 |
| Talbot | 410-822-1577, ext. 5 |
| Washington County | 301-797-6821, ext. 3 |
| Wicomico | 410-546-4777, ext. 3 |
| Worcester | 410-632-5439, ext. 3 |
| | |

BRINGING MACS TO FARMERS

Maryland's 24 soil conservation districts—with technical guidance from USDA's Natural Resources Conservation Service—help farmers choose the right best management practices for their operations, supervise their installation or construction, and develop maintenance plans to keep them in good working order. District staff help farmers calculate costs to install practices and apply for other state and federal grant and loan programs. Best management practices are usually installed as part of a farm's overall Soil Conservation and Water Quality Plan. These plans are developed free of charge by district technical staff to help farmers identify, protect, and enhance natural resources on their farms. They are included in Maryland's Watershed Implementation Plan for restoring the Bay and its tributaries by 2025.





Conservation Grants Program 50 Harry S. Truman Parkway Annapolis, MD 21401

410-841-5864 • mda.maryland.gov



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