

## ROOF RUNOFF STRUCTURE (CODE 558)

### DESCRIPTION

A facility for collecting, controlling, and disposing of runoff water from roofs.

### PURPOSE

To prevent roof runoff water from causing a water quality problem, and to reduce pollution and soil erosion from reaching the waters of the State.

### CONDITION

This practice shall only be applied to those locations on a farm where roof runoff from farm buildings (excluding residences) presents a significant pollution problem by causing severe erosion or by transporting pollutants from animal waste. The roof runoff must contribute significantly to the pollution of local streams or other waters of the State by transporting sediment, organic matter (affecting biological oxygen demand), pathogens, or nutrients.

### POLICIES

1. The cost-effectiveness must be shown to be \$55/ton of soil saved or less to be eligible for MACS funding, up to 87.5% of the total eligible cost. If the cost-effectiveness of the proposed BMP exceeds \$55/ton of soil saved, use the variable rate formula to determine the maximum amount of cost-share funds the applicant could receive from all funding sources. (This does not apply if the number of animal units is used to determine eligibility. See Number 4 below.)
2. The practice **must** include the establishment of a stable outlet for the runoff, and the resulting (relocated) discharge must not flow over animal waste areas.
3. For cases where erosion is the problem, there must be a **soil loss of 5 tons per year or more**, all of which is directly the result of the runoff that is to be intercepted and transported by the practice.
4. For cases where the problem involves animal waste, there must be a **minimum of fifteen (15) animal units** (as defined in the Maryland Manure Management Handbook) in the actual area of the farm parcel presently exposed to roof runoff, and the roof runoff must flow across a significant concentration or amount of animal waste. Operations with **eight (8) to fourteen (14)** animal units may be eligible based on the animal unit pro-rated cost-eligibility formula.
5. This practice may be **installed with MACS cost-sharing funds only one time on each non-residential farm building** and shall be used to solve the most serious on-farm conditions which involve or result from roof runoff.

6. Cost-sharing *is authorized* for the following:
  - a. Guttering necessary to collect runoff from the affected roof area, including the necessary brackets, nails, straps, and other hardware needed to install the gutters; where fascia board is necessary for the reliable functioning of the gutters, fascia board, hanging bolts, and hardware are eligible.
  - b. The installation of downspouts and underground outlet pipes (drain tubing and accessories) is necessary to convey the roof runoff to a stable outlet.
  - c. The location and installation of gravel drip trenches under roof lines to collect, store, and safely convey runoff (including trench excavations, obtaining, and placing gravel, and any needed minor grading).
  - d. Where new gutters connect to pre-existing gutters, replacement of existing guttering only to the extent needed to accommodate the new flows resulting from the project.
7. If an animal waste management system (Animal Waste Treatment and Containment Project) received MACS cost-share funding, the cubic foot volume ceiling rate eligibility cap for this waste storage structure project will be verified, and the remaining balance of eligible cost-share can be applied towards the proposed Roof Runoff Structure (558).
8. Cost-sharing *is not authorized* for the following:
  - a. Modifying a building to install guttering, such as replacing, repairing, or installing new rafters or new roofing.
  - b. Revising or increasing the foundation in order to install a gravel trench.
  - c. Any existing or new guttering that does not meet NRCS Standards and Specifications, or local and state regulations.
  - d. Replacing or repairing sound existing guttering, which has sufficient capacity to handle flows after the new guttering is installed on the structure.
  - e. Installations which are primarily for the operator's convenience.
  - f. Residences.
9. For a start-up operation or expansion to increase the animal capacity within the next six months, *and* if the applicant will document that fact in writing to the Department's satisfaction, cost-share may be based on the total new animal capacity on the farm. The SCD must document the animal capacity increase on the Certificate of Imminent Start-up or Expansion of a Poultry-Growing Operation form or Certificate of Imminent Start-up or Expansion of a Livestock Operation form (SECTION III, # 19 or # 20) and submit this form with the MACS Water Quality Project form. *Start-up or expansion operations are eligible for 50% cost-share.*

10. MACS will initiate an On-Farm Status Review (Spot Check) six months following the completion of any project subject to the Certificate Imminent Start-Up or Expansion form.
11. NRCS Standards and Specifications for Roof Runoff Structure (Code 558) shall be followed when applying this practice.
12. The practice must be properly maintained for a minimum of ten (10) years. The applicant agrees to provide all equipment, labor, and materials needed to meet this requirement.
13. The applicant and the farm's Nutrient Management Plan must be in compliance with Maryland's Nutrient Management regulations (COMAR 15.20.08) at the time of Application. No Applications will be approved without a Nutrient Management Plan Certification Form submitted with the Application (SECTION III, #30).
14. If MACS cost-share funding was received for an Animal Waste Treatment and Containment Project and if supporting practices (367, 558, and 561) were not installed with the initial waste storage structure, the total eligible cost, not to exceed \$200,000 per project, and the cubic foot volume ceiling rate eligibility cap, is still applicable. The remaining balance of eligible cost-share can be applied towards the proposed Roofs and Covers (367), Roof Runoff Structure (558), and Heavy Use Area Protection (561).
15. **MACS defines Animal Waste Treatment and Containment Projects to include Practice Codes 313, 316, 359, 367, 558, and 561 to solve a single water quality problem. The waste storage facility and supporting practices are part of a Waste Management System Plan (WMSP), and the total cost is not to exceed \$200,000 per project.**

### **COST-SHARE RATE**

For Roof Runoff Structures, the State cost-share payment will not exceed 87.5% of the total eligible cost, not to exceed \$150,000 per project.

*Note: If the proposed Roof Runoff Structure (558) is part of an animal waste management system (Animal Waste Treatment and Containment Project) that includes Practice Codes 313, 316, 359, 367, 558, and 561 to solve a single water quality problem, the State cost-share payment will not exceed 87.5% of the total eligible cost, not to exceed \$200,000 per project, that is based on the cubic foot volume ceiling rate eligibility cap of the waste storage structure.*

## ATTACHMENTS

***Applicant(s) with an outstanding Unsatisfactory On-Farm Status Review of BMP Maintenance and Use of previous project(s) may be ineligible for MACS Cost-Share funding. When a previous project expires with outstanding unsatisfactory status, the applicant is ineligible for any future MACS funding.***

*The following items are needed:*

1. A copy of a recorded deed(s) for the parcel(s) where the BMP is located. If the current, appropriate deed is already on file in the MACS Office, then record both the agreement number of the file where the deed is kept and the liber/folio numbers in the General Comments section of the application.
2. A copy of the Real Property Data Search page from the Maryland Department of Assessments and Taxation's website ([www.dat.maryland.gov](http://www.dat.maryland.gov)) indicating the Maryland Property View Account ID Number and owner information.
3. An aerial photograph indicating the property lines as well as all existing and proposed BMPs. For sediment control practices, indicate the drainage area and the direction of flow.
4. A plan view sketch of the area indicating the linear feet of guttering to be installed on each building. Also, describe on the sketch the system proposed to provide a stable outlet(s) for the runoff and the location of the proposed outlet(s).
5. Nutrient Management Plan Certification Form shall be submitted with the Application (SECTION III, #30).