



PESTICIDE RUNOFF/EROSION MITIGATION POINTS CALCULATION WORKSHEET

When the pesticide product label or endangered species protection bulletin, found on the Bulletins Live! Two website¹, instructs a user to achieve runoff or erosion points, this worksheet can be used to assist the user in determining whether the necessary level of mitigation has been met before applying a pesticide product. This worksheet can be used to track the number of points a user has achieved in lieu of the Microsoft Excel calculator² EPA has also developed for this purpose. The calculator and descriptions of mitigation measures are found on EPA's Mitigation Menu Website. This worksheet can be found online at <https://www.epa.gov/system/files/documents/2025-06/runoff-mitigation-worksheet-April-2025.pdf>

You may not have to implement any additional runoff/erosion measures for applications if the answer is "yes" to any one bullet in any one of the following questions:	Yes	No
Does the application area use any of the following systems that capture runoff and discharge? <ul style="list-style-type: none">• Perimeter berm system (permanent berms, elevated border/perimeter) present at the time of application and throughout the cropping season• Irrigation tailwater return system• Subsurface or tile drainage with controlled outlet	No further runoff/erosion mitigation needed	Continue calculating mitigation points below
Does the application use any of the following application methods or parameters? <ul style="list-style-type: none">• Soil injection• Tree injection• Chemigation applied to the subsurface and under non-permeable plastic mulch• Spot treatment (<1000 square feet)• Less than 1/10 acre treated		
Are managed areas the only landscapes for at least 1000 feet down-gradient from the application area? Managed areas may include: <ul style="list-style-type: none">• Agricultural fields, including untreated portions of the treated field• Roads, paved or gravel surfaces, mowed grassy areas adjacent to field, and areas of bare ground• Buildings and their perimeters, silos, or man-made structures• Vegetative filter strips, field borders, hedgerows, Conservation Reserve Program lands, and other areas for spray drift or runoff mitigation• Managed wetlands• On-farm contained irrigation water sources that are not connected to adjacent water bodies		

General Field/Management Unit Information (Optional Information – Does not Impact Calculation)	
Name:	
Today's Date:	
Field/Management Unit Identification(s) ³	
Crop(s)	
Pesticide Product Name(s)	
Target Application Date(s)	
Required Number of Mitigation Points (from label – if applicable)	
Required Number of Mitigation Points (from bulletin – if applicable)	
Other restrictions of note	

¹ Bulletins Live! Two Website: <https://www.epa.gov/endangered-species/bulletins-live-two-view-bulletins>

² Excel Mitigation Points Calculator: <https://www.epa.gov/system/files/documents/2024-10/runoff-mitigation-calculator-tool.xlsm>

³ A field or management unit is defined as the single contiguous piece of land that is managed as a single unit in production or in preparation for production of a single crop. A uniform field may be sub-divided based upon different crops (e.g., vegetables and leafy greens) or sub-divided based upon different features (e.g., flat portion and contoured portion).

Mitigation relief options				
Mitigation Relief	Pesticide Runoff Vulnerability and Field Characteristics		Points	Score
County-based mitigation relief	Your county may receive mitigation relief points if in a geographic area with reduced pesticide runoff vulnerability. Check the runoff vulnerability credit of your location at https://www.epa.gov/system/files/documents/2024-10/county-mitigation-relief-points-runoff-vulnerability.pdf	Pesticide runoff vulnerability - very low	6	
		Pesticide runoff vulnerability - low	3	
		Pesticide runoff vulnerability - medium	2	
		Pesticide runoff vulnerability - high	0	
Field Characteristics ³				
Field with Slope ≤ 3%	Field slope ≤3% (naturally low slope or flat fields; flat laser leveled fields)		2	
Predominantly Sandy Soils ⁴	Moderately sandy soils: Fields with 10-20% clay and 50-90% sand (HSG B type soils)		2	
	Predominately sandy soils: Fields with ≤10% clay and ≥90% sand (HSG A type soils)		3	
Conservation Program and Runoff/Erosion Specialists/Mitigation Tracking				
Mitigation Tracking	Documented at the field or farm level, using paper or electronic format (using this worksheet counts for this measure)		1	
Runoff/Erosion Specialists OR Conservation Program [Select one; points are not additive for doing both]	Working with and following recommendations from a technical specialist		1	
	Participating in a conservation program		2	
	Participating in an EPA Qualified Conservation program		9+	
Runoff/erosion mitigation options				
Mitigation Measure Title ¹	Measures Included in Mitigation Category ^{1,2}		Points	Score
Application Parameters				
Annual Application Rate Reduction [Select one]	Any application 10% to <30% less than the maximum labeled annual application rate		1	
	Any application 30% to <60% less than the maximum labeled annual application rate		2	
	Any application ≥60% less than the maximum labeled annual application rate		3	
Anionic Polyacrylamide (PAM)	Use of Anionic Polyacrylamide (PAM)		2	
Reduction in Proportion of Field Treated [Select one]	10 to <30% of Field Area NOT treated (Banded application, partial treatment, precision sprayers)		2	
	30 to <60% of Field Area NOT treated (Banded application, partial treatment, precision sprayers)		3	
	≥60% of Field Area NOT treated (Banded application, partial treatment, precision sprayers)		4	
Soil Incorporation	Watering-in or mechanical incorporation before a runoff producing event		1	
In-Field Mitigation Measures ³				
Conservation Tillage [Select one]	No-till		3	
	Reduced tillage, mulch tillage, strip till, ridge tillage		2	
Reservoir Tillage	Reservoir tillage, furrow diking, basin tillage		3	
Contour Farming	Contour farming, contour tillage, contour orchard and perennial crops		2	
Terrace Farming	Terrace farming, terracing, field terracing		2	
Cover Crop/Continuous Ground Cover [Select one]	Cover crop or continuous ground cover; with tillage		1	
	Cover crop or continuous ground cover; no tillage; short-term cover crop		2	
	Cover crop or continuous ground cover; no tillage; long-term cover crop		3	
Irrigation Water Management [Select one]	Use of soil moisture sensors/evapotranspiration meters with center pivots & sprinklers; above ground drip tape, drip emitters; micro-sprinklers; general irrigation management		2	
	Use of below tarp irrigation, below ground drip tape; dry farming, non-irrigated lands; no irrigation		3	

Mitigation relief options			
Mitigation Relief	Pesticide Runoff Vulnerability and Field Characteristics	Points	Score
Mulching [Select one]	Mulching with permeable artificial materials (i.e., landscape fabrics, synthetic mulches)	1	
	Mulching with natural materials	3	
Vegetative Strips – In-Field	Inter-row vegetated strips, strip cropping, alley cropping, prairie strips, contour buffer strips, contour strip cropping, prairie strip, alley cropping, vegetative barrier (occurring in a contoured field)	2	
Erosion Barriers	Wattles; silt fences	2	
Adjacent to Field Mitigations⁵			
Grassed Waterway	Grassed waterway	2	
Vegetative filter strips (VFS) or field border adjacent to field [Select one]	20 to <30 feet wide	1	
	30 to <60 feet wide	2	
	≥60 feet wide	3	
Vegetated Ditch	Vegetated drainage ditch	1	
Riparian area; riparian forest buffer; riparian herbaceous cover [Select one]	20 to <30 feet	1	
	30 to <60 feet	2	
	≥60 ft	3	
Constructed and Natural Wetlands	Constructed and natural wetlands, wetland and riparian landscape/habitat improvement	3	
Terrestrial Habitat Landscape Improvement [Select one]	20 to <30 feet	1	
	30 to <60 feet	2	
	≥60 ft	3	
Filtering Devices [Select one]	Filters, sleeves, socks, or filtration units containing activated carbon	3	
	Filters, sleeves, socks, or filtration units containing compost amendments	1	
Systems that Capture Runoff and Discharge			
Water Retention Systems	Sediment basins, catch basins, sediment traps, water retention ponds	2	
Subsurface drainages and tile drainage installed without controlled drainage structure	Subsurface tile drains, tile drains without controlled drainage structure	1	
Other Mitigation Measures⁶			
Using mitigation measures from multiple categories	Practices must be used from at least 2 of the following categories: in-field, field-adjacent, or systems that capture runoff and discharge ⁶	1	
TOTAL MITIGATION POINTS SCORE:			

¹ EPA's mitigation menu and measure descriptions specific to pesticides are available in the following websites:

<https://www.epa.gov/pesticides/mitigation-menu> and <https://www.epa.gov/pesticides/menu-measure-descriptions>. If the state has a more restrictive requirement, that must be followed instead. Not all measures are applicable to all fields and crops.

² Only one of the measures that qualify from a 'mitigation menu item' can be used. For example, a user could get mitigation points for cover cropping or double cropping but not both.

³ Multiple field characteristics may apply to an individual field.

⁴ Soil texture is as defined by USDA's soil classification system. See USDA's Web Soil Survey tool to determine soil texture:

<https://websoilsurvey.nrcs.usda.gov/app/>.

⁵ Adjacent to field mitigations should be located downgradient from a treated field to effectively reduce pesticide exposure in runoff and erosion.

⁶ For example, if a cover cropping and adjacent to the field VFS are both utilized, the efficacy of the mitigation measures in combination may be increased.

Notes: