

## PESTICIDE RUNOFF/EROSION MITIGATION POINTS CALCULATION WORKSHEET

When the pesticide product label or endangered species protection bulletin, found on the Bulletins Live! Two website<sup>1</sup>, 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 calculator<sup>2</sup> 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 <a href="https://www.epa.gov/system/files/documents/2025-01/runoff-mitigation-worksheet.pdf">https://www.epa.gov/system/files/documents/2025-01/runoff-mitigation-worksheet.pdf</a>.

| Does the application area use any of the following systems that capture runoff and discharge?  • Perimeter berm system (permanent berms, elevated border/perimeter) present at the time of application and throughout the cropping season.  | 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 |
|---|--|----------------------------------|----|
| <ul> <li>Irrigation tailwater return system</li> <li>Subsurface or tile drainage with controlled outlet</li> <li>Does the application use any of the following application methods or parameters?</li> <li>Soil injection</li> <li>Tree injection</li> <li>Chemigation applied to the subsurface and under non-permeable plastic mulch</li> <li>Snot treatment (&lt;1000 square feet)</li> </ul> No further runoff/ | Does the application area use any of the following systems that capture runoff and discharge?  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  Does the application use any of the following application methods or parameters? 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: 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 | runoff/<br>erosion<br>mitigation | •  |

| General Field/Management Unit Information (Optional Information – Does not Impact Calculation) |  |  |  |  |
|--|--|--|--|--|
| Name:  |  |  |  |  |
| Today's Date:  |  |  |  |  |
| Field/Management Unit Identification(s) <sup>3</sup>   |  |  |  |  |
| 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   |  |  |  |  |

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

<sup>&</sup>lt;sup>2</sup> Excel Mitigation Points Calculator: <a href="https://www.epa.gov/system/files/documents/2024-10/runoff-mitigation-calculator-tool.xlsm">https://www.epa.gov/system/files/documents/2024-10/runoff-mitigation-calculator-tool.xlsm</a>

<sup>&</sup>lt;sup>3</sup> 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 Ch                                  | aracteristics                         | Points | Score |
|                                       | Your county may receive mitigation relief points if in                       | Pesticide runoff                      | 6      |       |
| County-based mitigation               | a geographic area with reduced pesticide runoff                              | vulnerability - very low              | ļ      |       |
|                                       | vulnerability. Check the runoff vulnerability credit of                      | Pesticide runoff                      | 3      |       |
|                                       | your location at   | vulnerability - low                   |        |       |
| relief                                | https://www.epa.gov/system/files/documents/2024-                             | Pesticide runoff                      | 2      |       |
|                                       | 10/county-mitigation-relief-points-runoff-                                   | vulnerability - medium                |        |       |
|                                       | vulnerability.pdf  | Pesticide runoff                      | 0      |       |
| Field Characteristics <sup>3</sup>    |  | vulnerability - high                  |        |       |
| Field with Slope < 3%                 | Field slope ≤3% (naturally low slope or flat fields; flat las                | ser leveled fields)                   | 2      | 1     |
| Predominantly Sandy                   | >50% sand, loamy sand, or sandy loam soil without a re                       |                                       |        |       |
| Soils <sup>4</sup>                    | impedes the movement of water through the soil                               | strictive layer that                  | 2      |       |
|                                       | Runoff/Erosion Specialists/Mitigation Tracking                               |                                       |        |       |
|                                       | Documented at the field or farm level, using paper or el                     | ectronic format (using                |        |       |
| Mitigation Tracking                   | this worksheet counts for this measure)                                      | cetrome format (asing                 | 1      |       |
| Runoff/Erosion Specialists            | Working with and following recommendations from a to                         | echnical specialist                   | 1      |       |
| OR Conservation Program               | 5  |                                       |        |       |
| [Select one; points are not           | Participating in a qualifying conservation program                           |                                       | 2      |       |
| additive for doing both]              |  |                                       |        |       |
|                                       | Runoff/erosion mitigation options  |                                       |        |       |
| Mitigation Measure Title <sup>1</sup> | Measures Included in   |                                       | Points | Score |
|                                       | Mitigation Category <sup>1,2</sup>   |                                       | Folits | 30016 |
| Application Parameters                |  |                                       | 1      | I     |
|                                       | Any application 10% to <30% less than the maximum lal                        | beled annual                          | 1      |       |
| Annual Application Rate               | application rate   |                                       |        |       |
| Reduction                             | Any application 30% to <60% less than the maximum lal                        | beled annual                          | 2      |       |
| [Select one]                          | application rate   |                                       | _      |       |
|                                       | Any application <u>&gt;</u> 60% less than the maximum labeled an             |                                       | 3      |       |
|                                       | 10 to <30% of Field Area NOT treated (Banded application precision sprayers) | on, partial treatment,                | 2      |       |
| Reduction in Proportion of            | 30 to <60% of Field Area NOT treated (Banded application, partial treatment, |                                       |        |       |
| Field Treated                         | precision sprayers)  |                                       | 3      |       |
| [Select one]                          | ≥60% of Field Area NOT treated (Banded application, partial treatment,       |                                       |        |       |
|                                       | precision sprayers)  |                                       | 4      |       |
| Soil Incorporation                    | Watering-in or mechanical incorporation before a runof                       | f producing event                     | 1      |       |
| In-Field Mitigation Measure           |  | 1 0                                   |        | ı     |
| Conservation Tillage                  | No-till  |                                       | 3      |       |
| [Select one]                          | 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 p                      | erennial crops                        | 2      |       |
| Vogotative Strine In                  | Inter-row vegetated strips, strip cropping, alley cropping                   |                                       |        |       |
| Vegetative Strips – In-<br>Field      | buffer strips, contour strip cropping, prairie strip, alley of               | cropping, vegetative                  | 2      |       |
| Field                                 | barrier (occurring in a contoured field)                                     |                                       |        |       |
| Terrace Farming                       | Terrace farming, terracing, field terracing                                  |                                       | 2      |       |
| Cover Crop/Continuous                 | Cover crop or continuous ground cover; with tillage                          |                                       | 1      |       |
| Ground Cover                          | Cover crop or continuous ground cover; no tillage; short                     |                                       | 2      |       |
| [Select one]                          | Cover crop or continuous ground cover; no tillage; long-                     | •                                     | 3      |       |
|                                       | Use of soil moisture sensors/evapotranspiration meters                       | · · · · · · · · · · · · · · · · · · · |        |       |
| Irrigation Water                      |  |                                       | 2      |       |
| Management                            | irrigation management  |                                       |        |       |
| [Select one]                          | Use of below tarp irrigation, below ground drip tape; dr                     | ry farming, non-irrigated             | 3      |       |
|                                       | lands; no irrigation   |                                       | I      |       |

| Mitigation relief options  |   |        |       |  |
|--|---|--------|-------|--|
| Mitigation Relief  | Pesticide Runoff Vulnerability and Field Characteristics  | Points | Score |  |
| Mulching   | Mulching with permeable artificial materials (i.e., landscape fabrics, synthetic mulches)   | 1      |       |  |
| [Select one]   | Mulching with natural materials   | 3      |       |  |
| Erosion Barriers   | Wattles; silt fences  | 2      |       |  |
| Adjacent to Field Mitigation   | ns <sup>5</sup>   |        |       |  |
| Grassed Waterway   | Grassed waterway  | 2      |       |  |
| Vegetative filter strips   | 20 to <30 feet wide   | 1      |       |  |
| (VFS) or field border  | 30 to <60 feet wide   | 2      |       |  |
| adjacent to field<br>[Select one]  | ≥60 feet wide   | 3      |       |  |
| Vegetated Ditch  | Vegetated drainage ditch  | 1      |       |  |
| Riparian area; riparian  | 20 to <30 feet  | 1      |       |  |
| forest buffer; riparian  | 30 to <60 feet  | 2      |       |  |
| herbaceous cover<br>[Select one]   | ≥60 ft  | 3      |       |  |
| Constructed and Natural Wetlands   | Constructed and natural wetlands, wetland and riparian landscape/habitat improvement  | 3      |       |  |
| Terrestrial Habitat  | 20 to <30 feet  | 1      |       |  |
| Landscape Improvement  | 30 to <60 feet  | 2      |       |  |
| [Select one]   | ≥60 ft  | 3      |       |  |
| Filtering Devices  | Filters, sleeves, socks, or filtration units containing activated carbon  | 3      |       |  |
| [Select one]   | Filters, sleeves, socks, or filtration units containing compost amendments  | 1      |       |  |
| Systems that Capture Runo  | ff 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 Measures <sup>6</sup>   |   |        |       |  |
| 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 <sup>6</sup> | 1      |       |  |
|  | TOTAL MITIGATION POINTS SCORE:  |        |       |  |
| 1 FDA/a maitimation manner and man   | asure descriptions specific to pesticides are available in the following websites:  |        |       |  |

<sup>&</sup>lt;sup>1</sup> EPA's mitigation menu and measure descriptions specific to pesticides are available in the following websites: <a href="https://www.epa.gov/pesticides/mitigation-menu">https://www.epa.gov/pesticides/mitigation-menu</a> and <a href="https://www.epa.gov/pesticides/menu-measure-descriptions">https://www.epa.gov/pesticides/menu-measure-descriptions</a>. If the state has a more restrictive requirement, that must be followed instead. Not all measures are applicable to all fields and crops.

| Notes: |  |  |
|--------|--|--|
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|        |  |  |

<sup>&</sup>lt;sup>2</sup> 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.

<sup>&</sup>lt;sup>3</sup> Multiple field characteristics may apply to an individual field.

<sup>&</sup>lt;sup>4</sup> Soil texture is as defined by USDA's soil classification system. See USDA's Web Soil Survey tool to determine soil texture: <a href="https://websoilsurvey.nrcs.usda.gov/app/">https://websoilsurvey.nrcs.usda.gov/app/</a>.

<sup>&</sup>lt;sup>5</sup> Adjacent to the field mitigations should be located downgradient from a treated field to effectively reduce pesticide exposure in runoff and erosion.

<sup>&</sup>lt;sup>6</sup> 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.