

ARM Worksheet

It is recommended that you fill out this form no more than 24 hours prior to a manure application event, particularly from October through February. You can group similar fields together into one field unit. For questions related to filling out any of the fields below, click on the provided hyperlinks for more information.

Farm Name

ddd

County Name

Island (WA)

Application Date

Date you want to apply: You must do this evaluation no more than 24 hours prior to application.

1/21/2021

Field Name or Unit

Do a separate evaluation for each field or management unit. A "management unit" is a group of fields with similar soil, crop type, and management conditions.

ddd

24 hour Precipitation (inches)

Link to MSA precipitation (<https://sites.google.com/site/wadairyplan/manure-spreading-advisory>)

0.13

Risk Rating: Medium

72 hour Precipitation (inches)

Link to MSA precipitation (<https://sites.google.com/site/wadairyplan/manure-spreading-advisory>)

0.31

Risk Rating: Medium

Caution: More than 0.25 inches of rain can cause a runoff event on saturated soils. Pay extreme caution and/or limit manure application rate.

Soil Type

Enter the general soil type you want to apply to. If you don't know your soil type, make your selection under "Don't know". Soil type can be found on your farm plan map.

- ☐ Sandy/Gravelly (Course Textured Soil - A)
☐ Silt (Medium Textured Soil - B)
☐ Clay (Fine Textured Soil - C/D)
☒ Peat/Muck (Organic Soil)
☐ Don't know

Soil Moisture

Select your soil moisture range. For guidance on how to determine soil moisture here (<http://www.wadairyplan.org/ARM/soil-moisture-determination>)

- ☐ 90-100% (If your boots squish in the field, you are at saturation)
☐ 80-90% (In this range you would not comfortably drive a tractor into the field and are worried about potential soil compaction due to field wetness)
☒ 60-80% (In this range you could comfortably drive a tractor out into the field without worrying about ruts or field compaction)
☐ < 60% (In this range your soil is firm and starting to dry out)

Risk Rating: Low-Med

Your soils are in a good range for application.

Water Table Depth (inches)

Water table can be determined by nearby ditches, or by digging a hole in your field. For more on how to determine water table depth, click [HERE](http://www.wadairyplan.org/ARM/water-table-depth-determination) (<http://www.wadairyplan.org/ARM/water-table-depth-determination>).

24-48 inches

Risk Rating: Medium

Be cautious of a rising watertable during high rainfall periods. Watch for ponding in low spots, running tiles, and soil saturation. Consider restricting application rate volume.

Forage Density (%)

Click link for guidance on how to determine forage density here (<http://www.wadairyplan.org/ARM/forage-density-determination>)

- ☐ 90-100%
☐ 70-90%
☒ 50-70%
☐ < 50%
☐ Other: Annual/Fallow/Row Crop Field (eg, new seeding, corn, berry, bare soil, etc.)

Risk Rating: Med-High

Your surface cover has a high potential for allowing water and sediments to run off your field. Evaluate cover condition for potential improvements.

Forage Height (inches)

Forage/cover height is the average height of forage or cover in your field. If you are not evaluating a forage field, select "Not forage crop".

1-3 inches

Risk Rating: Med-High

If forage height is low, water can run over the top of the field and increase your chances of runoff. Apply with great caution when forage height is less than 3 inches.

Field Surface Condition

Check all that apply to your current field conditions.

- ☐ Ponding
☐ Flooding current or potential in 15 days
☐ Frozen (more than 1 inch) or snow covered
☐ Tiles present in field
☒ None of the above

field surface condition is required

Risk Rating: Medium

Manure Application Equipment

Check equipment/method of application.

- ☐ Below surface applicator (eg, injector, incorporaion within 24 hours)
☐ Surface application (eg, splash plate, tank, aerator)

- ☐ Irrigation sprinkler (eg, Big Gun)
- ☐ Grazing
- ☒ Solid Manure Application

Risk Rating: Medium

Solid manure guidelines are the same as liquid manure. Follow all setback guidance. Make sure soild manure is spread evenly and incorporated into the soil surface prior to a rain event, which can significantly increase the probablility of a runoff event.

Waterbody or Critical Area

Do you have a waterbody (i.e., ditch, stream, river, etc.) or identified critical area (i.e., swale, wetland, etc) adjacent to your field?

- ☐ Yes (answer next two questions)
- ☒ No (click submit)

Application Risk Analysis for Surface Runoff

Do NOT apply manure at this time, the risk is too high. Wait and reevaluate.

HIGH RISK