

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

MP Ranch

County Name

Whatcom (WA)

Application Date

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

2/18/2024

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.

1

24 hour Precipitation (inches)

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

0

Risk Rating: Low

72 hour Precipitation (inches)

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

0.41

Risk Rating: Med-High

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 dont 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

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>).

>48 inches

Risk Rating: Low

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: Low

Your surface cover is adequate.

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".

Not forage crop

Risk Rating: Low

Be cautious with manure application if large bare areas of soil are exposed. This can increase your chance of runoff.

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, incorporation 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

Apply manure following all guidelines and recommendations in your Plan. Please be advised that this ARM Worksheet is a decision support tool. It is ultimatly your choice to make the final deciosn to apply manrue and use good management practices to avoid a runoff event. If you decide to apply, print this form and keep it for your records.

LOW-MED RISK