



# Timing is everything.

Runoff from fields reduces farm productivity, may impact water quality, and could contribute to fish kills, especially when manure or pesticides are applied improperly or too close to rain events.



## Weather matters:

Several recent fish kills in southeast Minnesota trout streams have occurred during intense storms that followed prolonged dry periods.



[www.pca.state.mn.us/fishkills](http://www.pca.state.mn.us/fishkills)



**Report any spill, runoff, or fish kill 24/7.**  
Call the Minnesota Duty Officer:  
800-422-0798

## Application tips to reduce runoff



### Forecast

When rain is forecast, do not apply. Use the MN Dept of Ag's Runoff Risk Advisory Forecast tool to determine timing. [mnpca.info/risk](http://mnpca.info/risk)



### Location

Observe setbacks to surface waters and sensitive areas. Pay attention to where water flows after rain or snow melt. Stay clear of steep slopes and surface water locations.



### Rate

Use the UMN Extension's manure management website to calculate the best manure application rates for your fields. [mnpca.info/manure](http://mnpca.info/manure)



### Method

Select the best application method and incorporate when possible to decrease loss of nutrients and risk of runoff.

