
651.1070 Appendix 10C Indiana runoff from feedlots, rainfall, and evaporation

(a) Runoff

Figures 10C-1 and 10C-2 show the average runoff plus the 25-year storm from paved and unpaved feedlots for 120 days.

Multiplication factors are shown for expanding these charts to 180 days and 365 days. These charts are identical to those in the Indiana Department of Environmental Management's Guidance Manual, Appendix IV.

These charts were prepared using data from 9 weather stations scattered around the state. The locations of these stations are denoted with asterisks on the maps. These charts represent a worst case scenario since they are based upon the months May through August when rainfall and runoff are heaviest.

To determine runoff more accurately for a specific period of time, Tables 10C-1 and 10C-2 can be used. They list runoff by month for 21 counties scattered around the state. Choose the nearest location and calculate the runoff volume for any storage period.

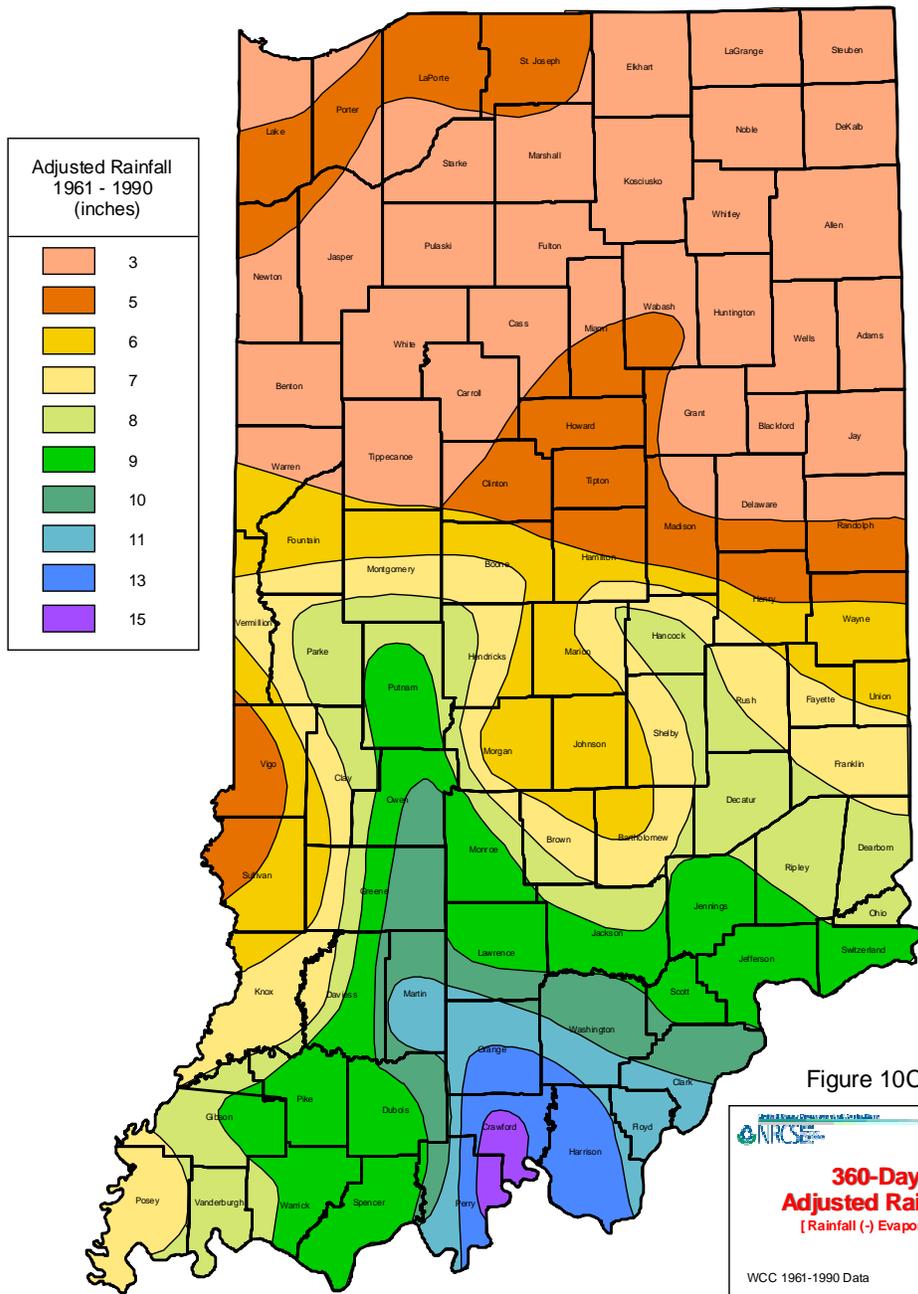
(b) Rainfall

Figures 10C-4 and 10C-5 are the worst case rainfall minus evaporation values for 6-month (180-day) and 1 year (360-day) timeframes.

(c) Evaporation

Figure 10C-3 shows annual free water surface evaporation for Indiana. The inset on this map shows the percentage of annual evaporation occurring each month.

Use the design procedure outlined in Appendix C and these Indiana maps for runoff and evaporation to compute the volume of water, which must be stored in an waste storage pond.



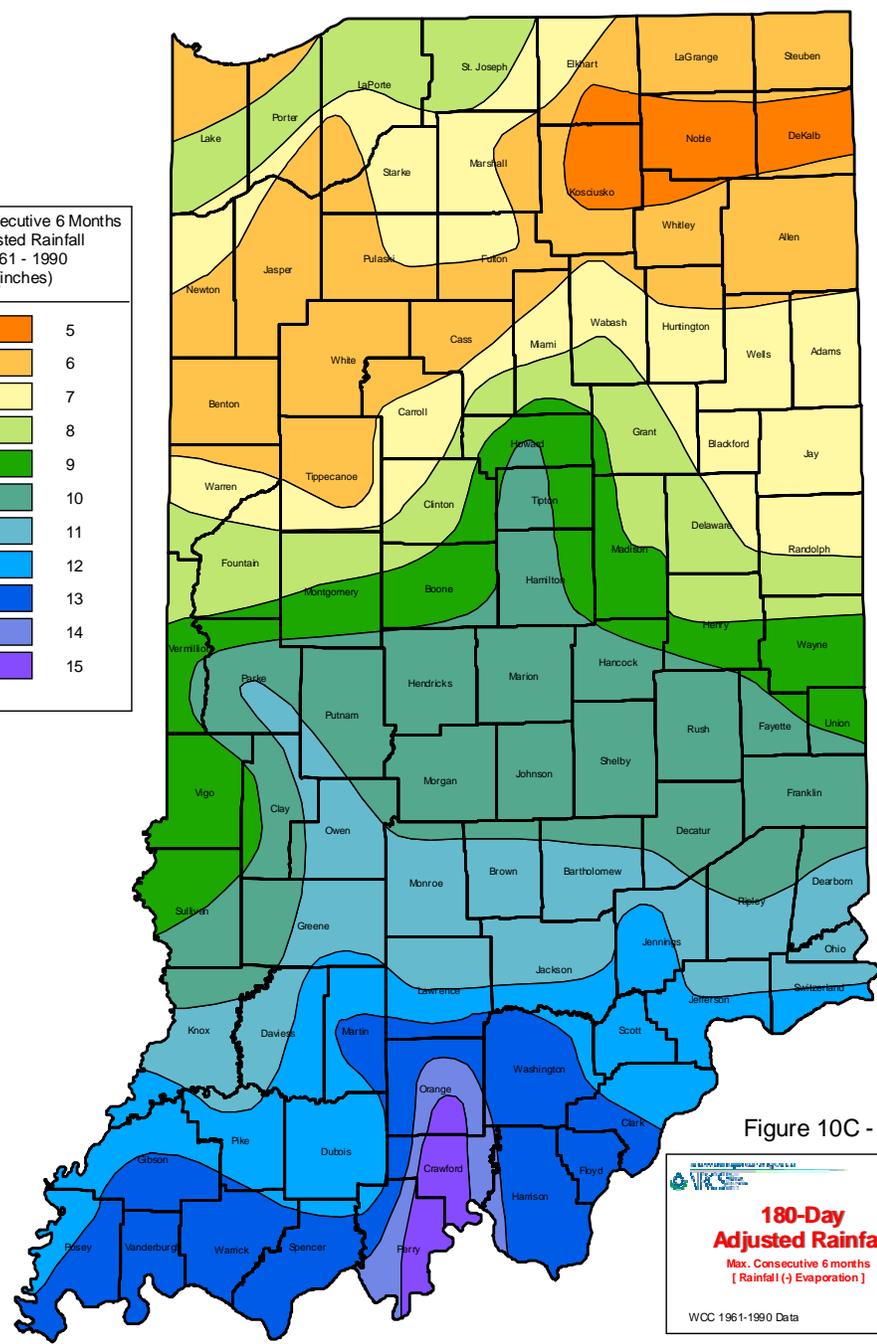
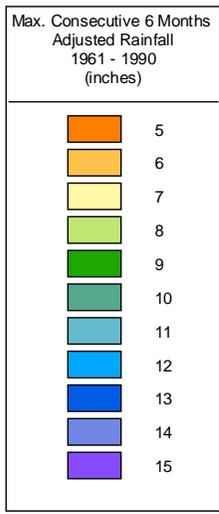


Figure 10C - 4

180-Day Adjusted Rainfall
 Max. Consecutive 6 months [Rainfall (-) Evaporation]

WCC 1961-1990 Data