Irrigation Scheduling on your Phone or Web Browser

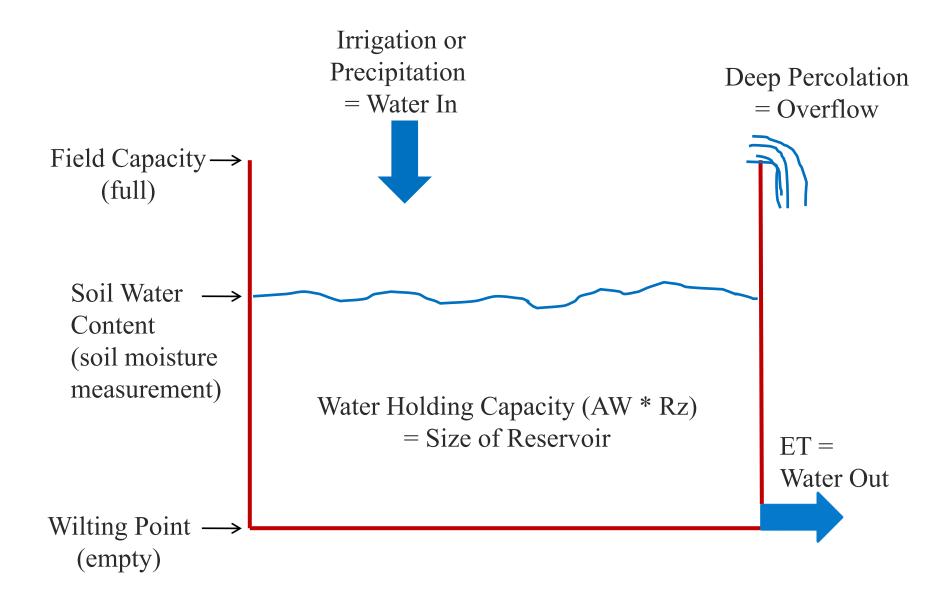
R. Troy Peters, Ph.D., P.E.

Washington State University
Irrigated Agriculture Research and Extension Center
Prosser, WA

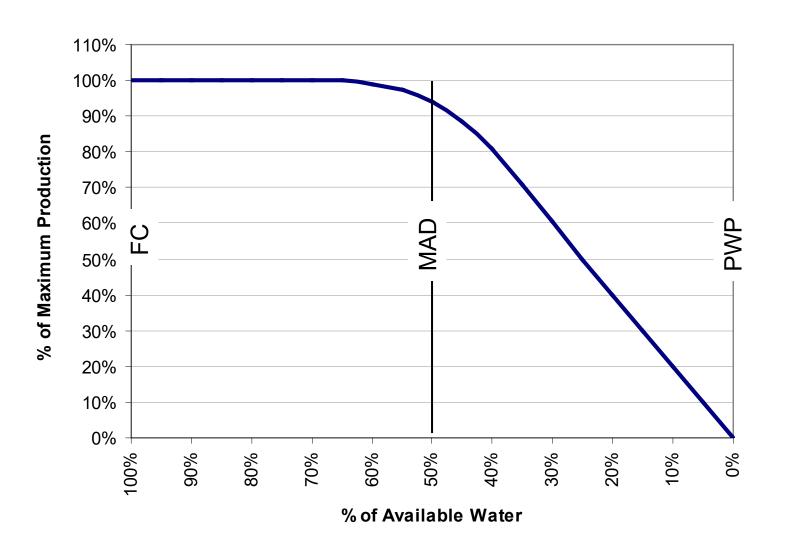
Washington State

World Class, Face to Face,

Soil is a Water & Nutrient Reservoir



Production Reduction Function



Estimate ET

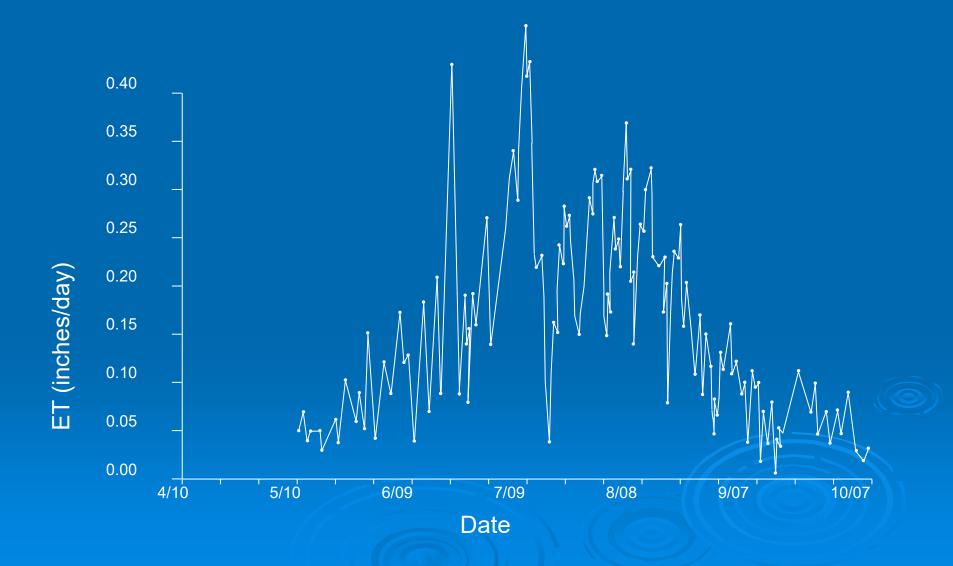
$$ET_c = ET_r \times K_c$$

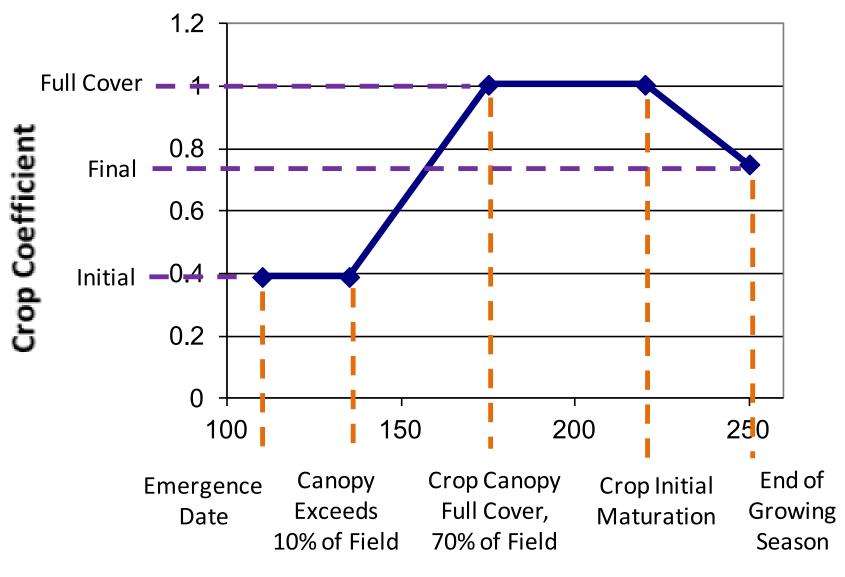
ET_c = crop evapotranspiration

ET_r = evapotranspiration rate of a reference crop (alfalfa). *Function of the weather.*

 K_c = crop coefficient. Function of the plants.

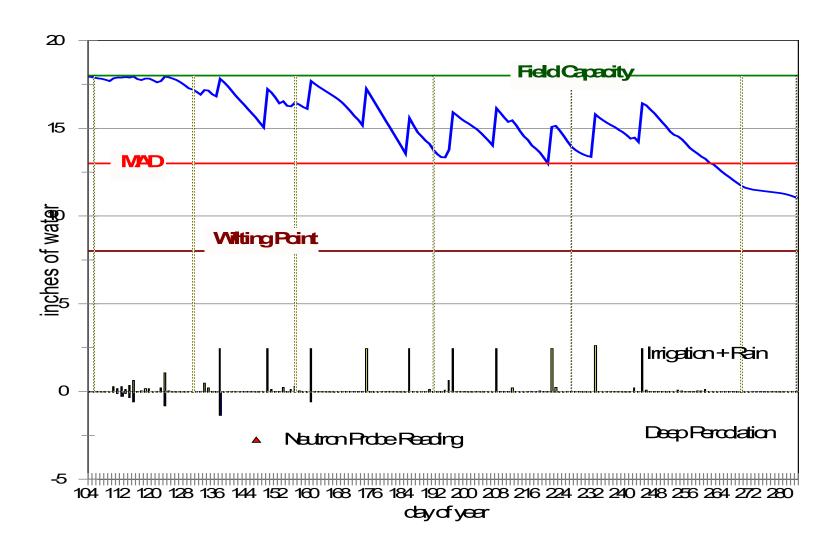
ET and Weather





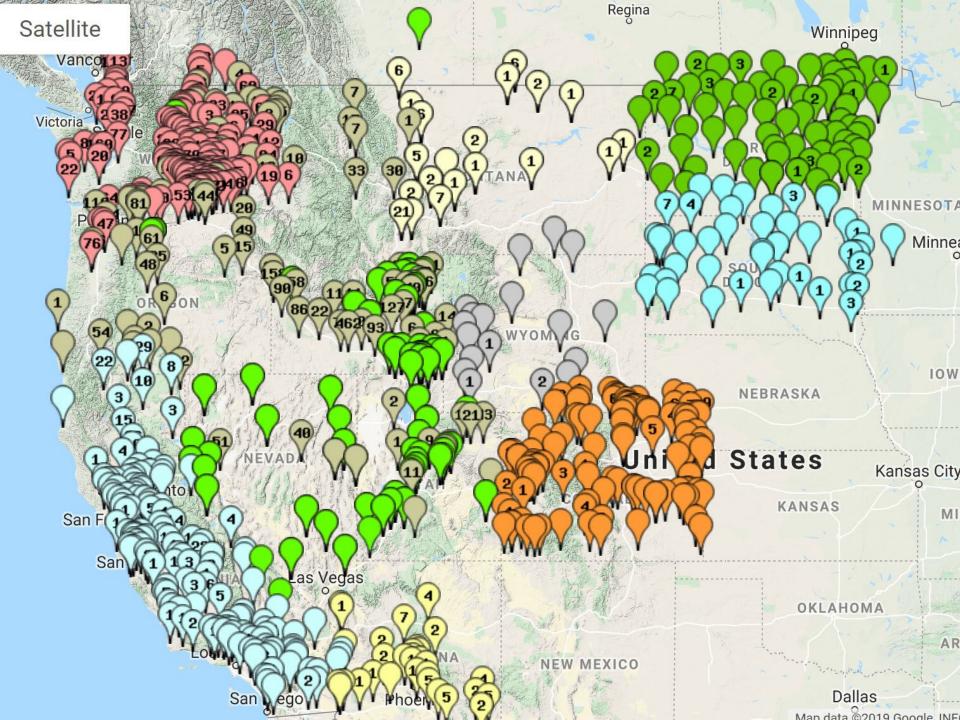
Day of Year

Good Irrigation Management



irrigation scheduler mobile

- Simple soil water balance based on ET.
- Designed for use on a smart phone, but usable on any desktop web browser.
- Designed for usability #1.
- Quick & easy to set up.
- Automatically pulls ET data from selected weather stations.
- Can run on any weather network who's data can be automatically accessed.





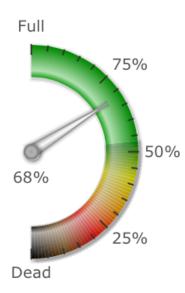
irrigation scheduler mobile

Soil Water Dashboard

Field:

N Pod Pasture, 2014; Grass (Pasture)





This Morning's 0.9 in. Soil Water or Deficit: 5.4 hrs Today's 0.00 Irrigation: hrs I Irrigated Today: hrs Save

Green is good. Crops increasingly stressed below green.



Dashboard



Daily Budget Table

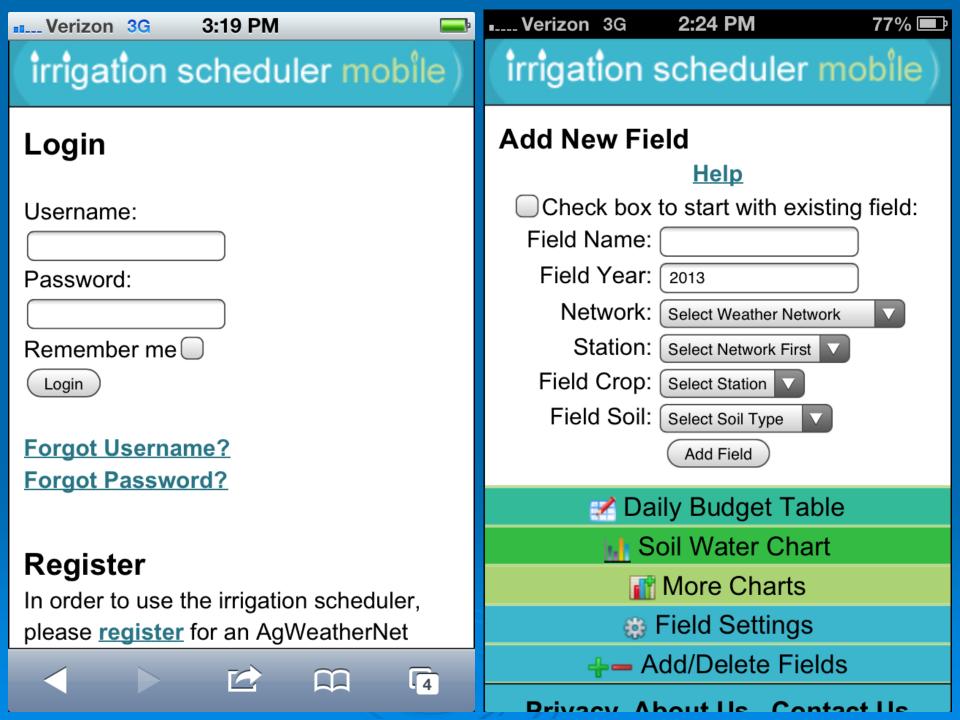


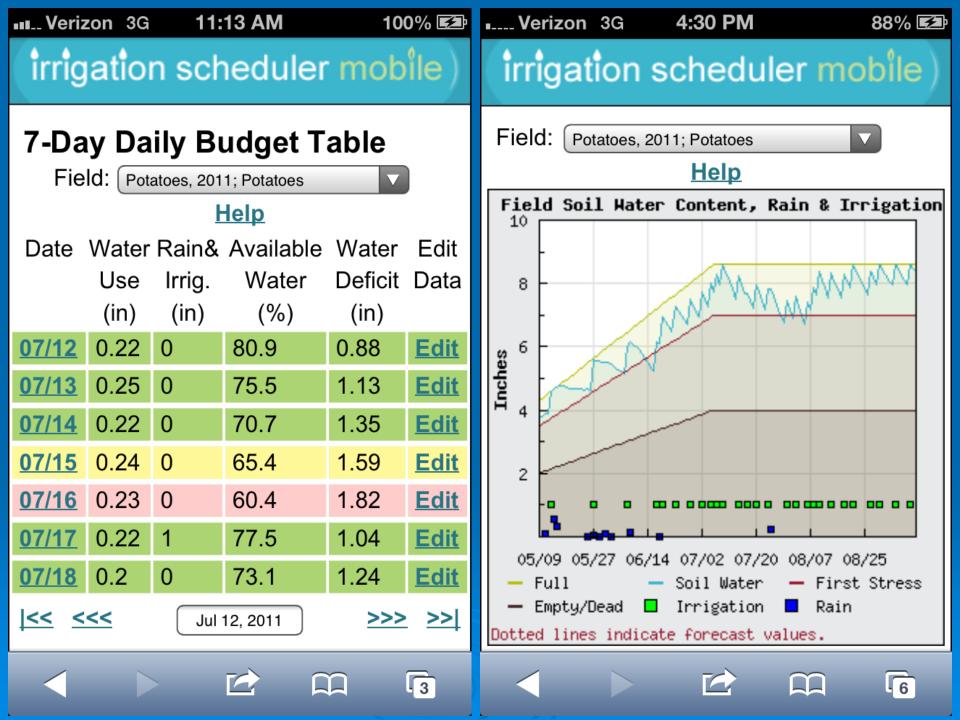
Soil Water Chart

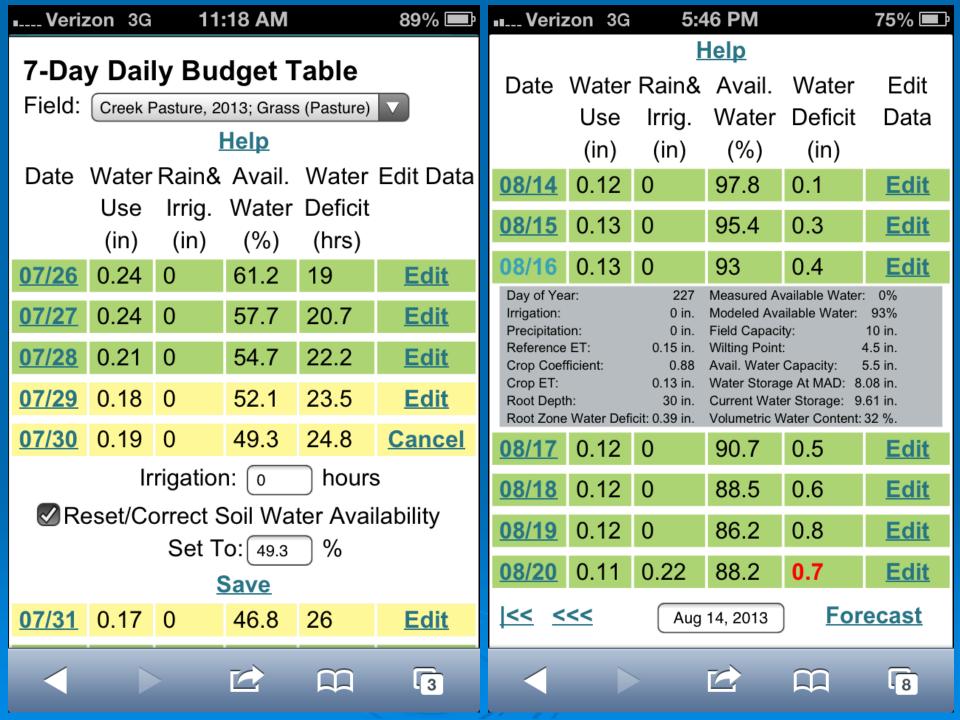


More Charts

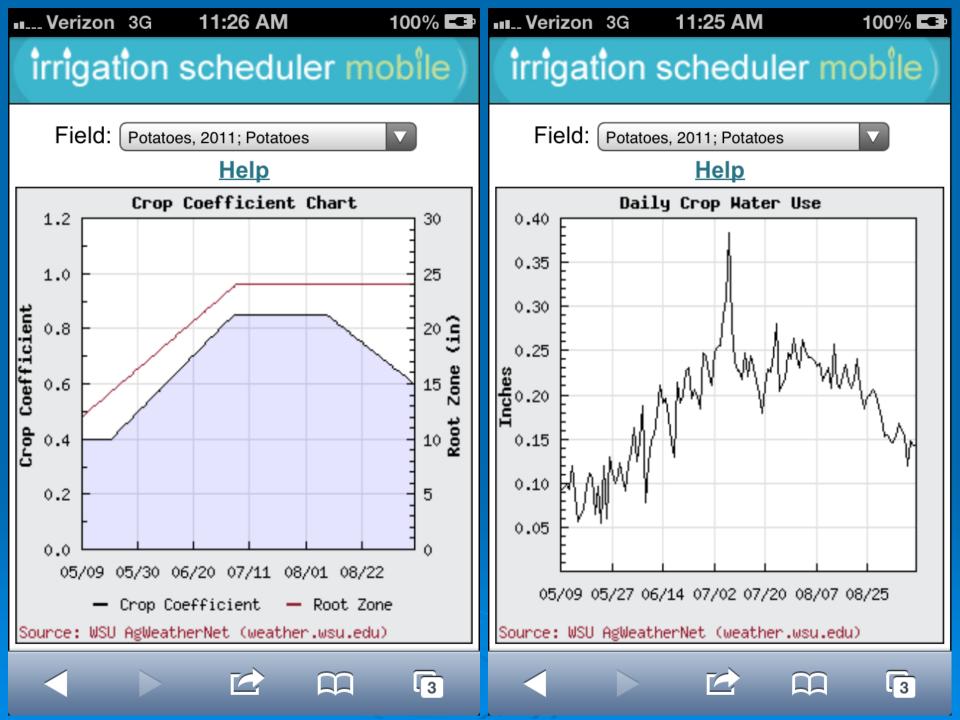


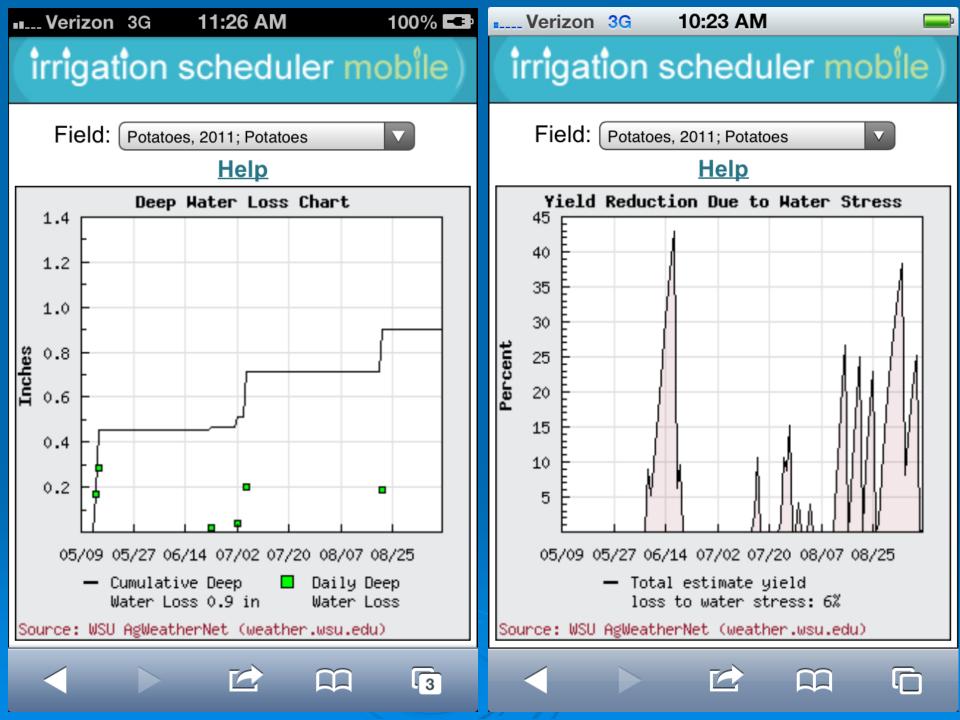


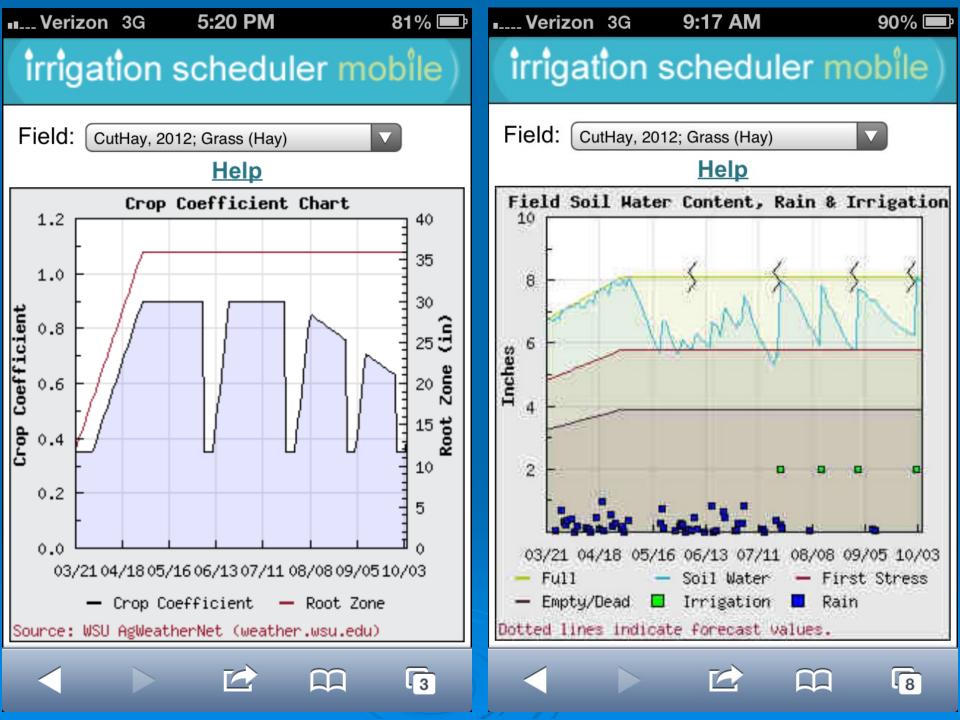












Specific help link on every screen

irrigation scheduler mobile

7-Day Daily Budget Table Help

Use this table to view the calculated daily crop water use, percent available soil water, and soil water deficit. From this table you can enter irrigation events and/or soil moisture measurements using the "Edit" link. If the percent available water is within the range for maximum production the line will be green. As it gets close to the First Water Stress line (Management Allowable Deficit; MAD) it turns yellow. If the soil water content is depleted below the MAD or First Water Stress point it will turn red.

Water Use (in/day) - This is the daily







Google "Irrigation Scheduler Mobile"

Or wherever you get your mobile phone apps.

weather.wsu.edu/ism

