

2006 CMDC Irrigation

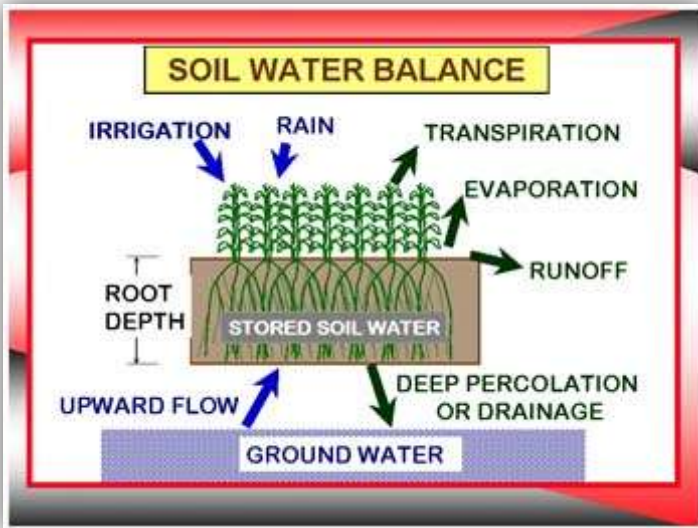
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2006cmdcjuly-irrigation001

IRRIGATION SCHEDULING WORKSHEET

DETERMINING CURRENT WATER BALANCE FROM FIELD OBSERVATIONS
 Determine soil type (NRCS soil survey map) _____
 Plant Available Water @ Field Capacity (Table I) _____ in/ft
 Active root zone (Table I) _____ ft
 Plant Available Water @ Field Capacity in root zone _____ in
 Current % of field capacity from field observations _____ %/100
 Current water balance _____ in

CURRENT WATER BALANCE (checkbook method)
 Beginning soil water balance _____ in
 (or previous Current water balance) _____ in
 Effective rainfall this period _____ in
 Gross irrigation this period _____ in
 Efficiency factor (Table III) _____
 Net irrigation this period _____ in
 Subtotal _____ in
 Crop water use this period _____ in
 Current water balance* _____ in

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IRRIGATION SCHEDULING WORKSHEET

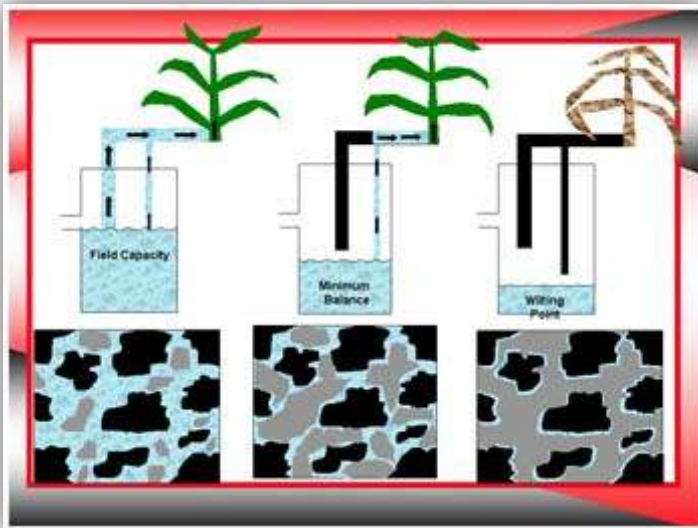
MAXIMUM IRRIGATION TO APPLY NEXT 7 DAYS
 Plant Available Water @ Field Capacity (Table I) _____ in/ft
 Active root zone (Table I) _____ ft
 Plant Available Water @ Field Capacity in root zone _____ in
 Current water balance from above _____ in
 Current Max soil water storage in root zone _____ in
 CAUTION: If this number is less than the irrigation application amount, plus two days crop water use, delay irrigation until adequate water storage is available.
 Estimated Crop ET per day next 7 days _____ in/day x 7 days _____ in
 Maximum irrigation to apply next 7 days _____ in

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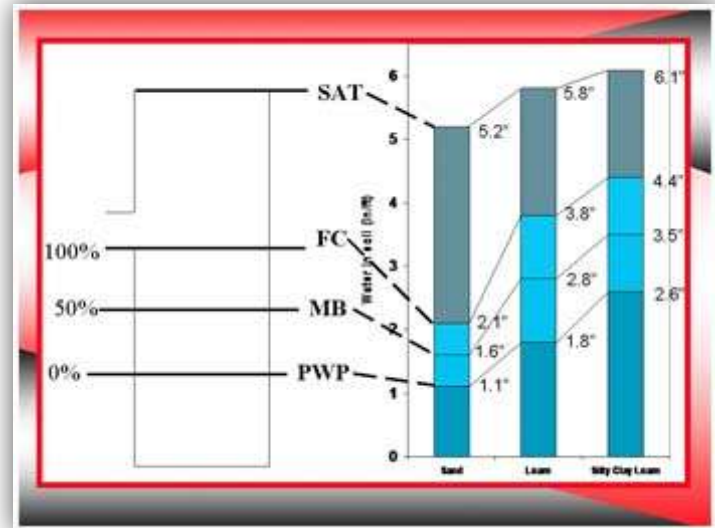
IRRIGATION SCHEDULING WORKSHEET

DAYS UNTIL IRRIGATION REQUIRED
 Current water balance* _____ in
 Minimum water balance (Table I) _____ in/ft
 Active root zone (Table I) _____ ft
 (Minimum allowable balance) _____ in
 Remaining available water _____ in
 Estimated daily water use _____ in/day
 Days until irrigation required _____ days

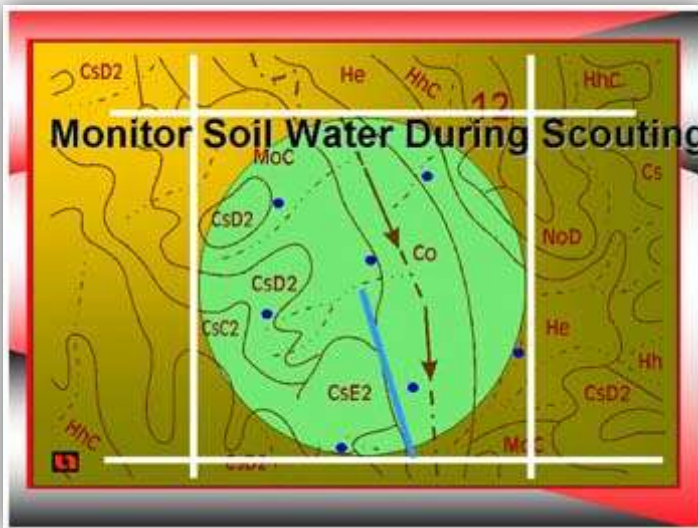
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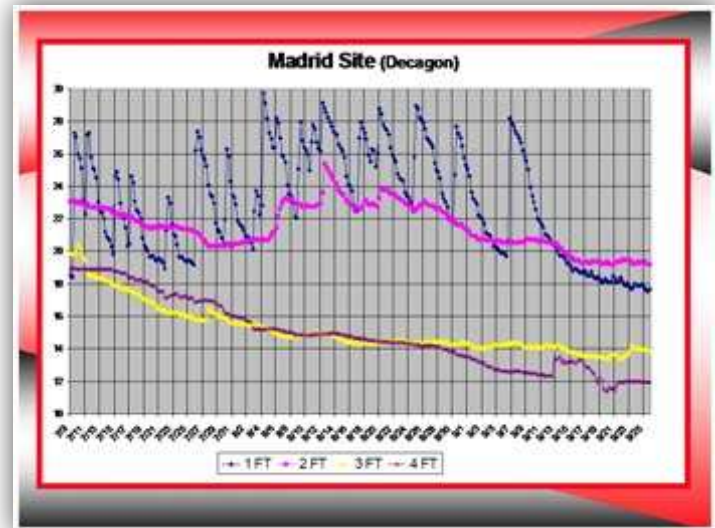
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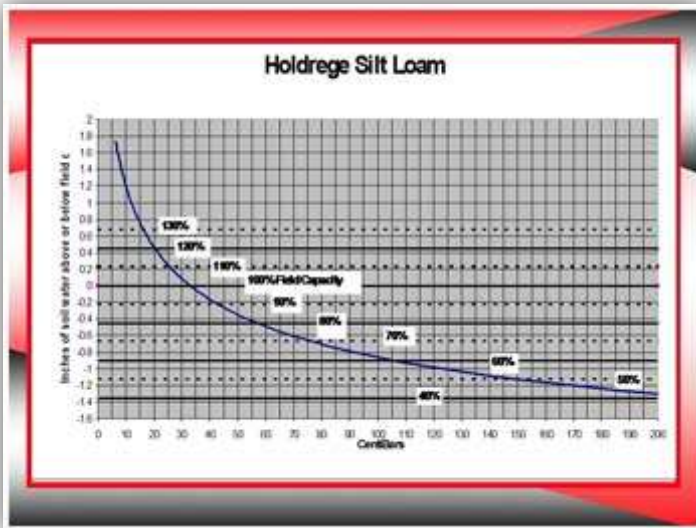
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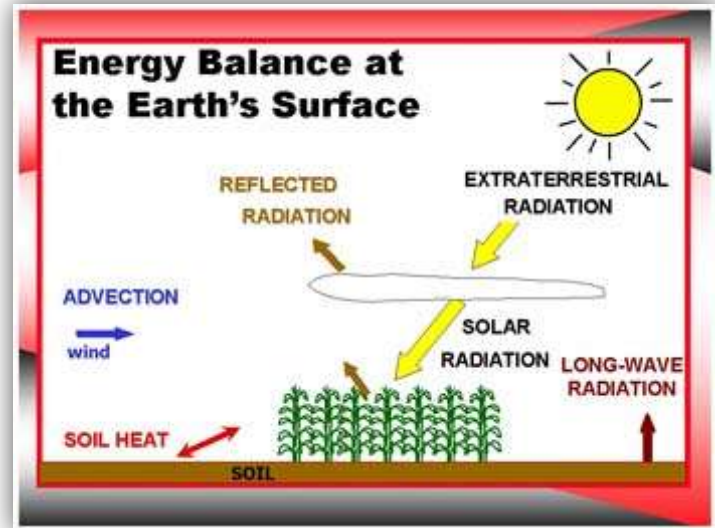
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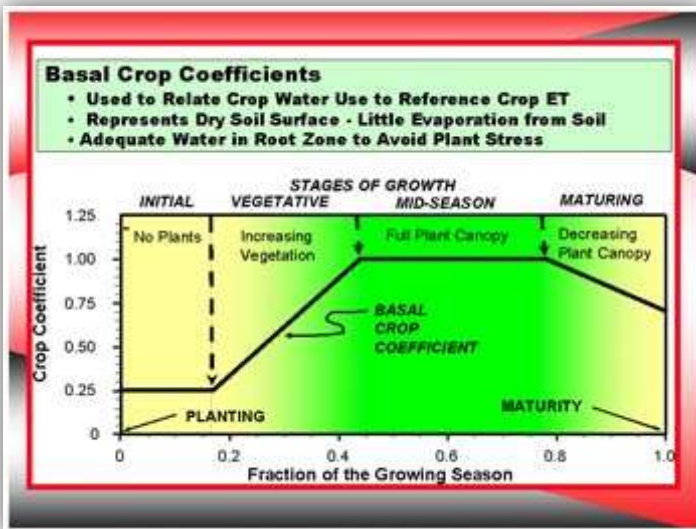
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2006cmdcjuly-irrigation011

IRRIGATION SCHEDULING WORKSHEET FOR ET_geq

ET_geq reading for period or ET_g _____ in

Crop coefficient-alfalfa based (Table I) _____

ET for the crop or ET_c _____ in

Rain fall during period _____ in

Net irrigation to apply to replace crop water use for previous period _____ in

Irrigation system efficiency factor (Table III) _____

Gross irrigation to apply to replace crop water use for previous period _____ in

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