

Drilled after 2002
22159 acres 168 wells
132 acres/well

URNRD - 0

MRNRD - 3 acres on 1 well
for High School
Football field

LRNRD - 9298 acres 72 wells
129 acres/well

TW-B - 12858 acres 95 wells
135 acres/well

Drilled since 1998

37 of 959 outside of 4 NRDs

- ↳ 5 LBNRD } 670 acres, 134 a/well
- ↳ 32 TPNRD } 5053 acres
- ↳ 4883 acres, 137 a/well

922 of 959

- ↳ 128991 acres 140 acres/well

7 URNRD	1010 acres	144 a/well
243 MRNRD	37116 "	153 a/well
516 LRNRD	68867 "	133 a/well
156 Tr-B	21998 "	141 a/well

Oct 17, 2005 Bleed, Koester, Thompson

of acres in quick response area?

for 2006 + 2007 QRA is where we have to concentrate

Baseline has ^{50,000 Acres} CREP + ^{20,000 Acres} EQIP Acres

What would a 20% reduction do?

One graph using lines preliminary 2000 - 2005

Courtland State line

Hardy Gage

Inflow to Harlan → Orleans

9-12-06

Ann, Paul, Mike, Brad

12th-13th est. pumping for 2006 by B. Edgerton

Big Question - How much do we have to cut back?

≈ 3, 6, 9 year plan w & w/o drought
use gw inertia as reason we can't
turn

combo. of incentives, vegetation management
& regulation → decrease allocation
→ decrease acres } do runs

LAND JAP 13.18
MAY 19.26 Rule 4.7-14
URWD 19.16

① Preliminary est. of allocation & CU for 2006
by end of January

② Pumping # comparison for 2006 vs '98-'02
by Nov. 1 avg.

③ Brad - how much SW did we buy?
Is there any for next year?

④ Notice Consecutive water short
year is likely to occur

Baseline
⑤ ~~2006~~ Model Runs

- (a) 2006 condition is starting point w/ existing CREP EQUIP
- (i) avg year repeated for many years (20)
- (ii) dry year " " " " (20)

⑥ Reservoir Operations Model could be made so we can run compact numbers. We need to determine how to est. river flow & predict when reservoir releases could be made. Need an evap. chart too. - monthly
Est. Deliveries to Canals - monthly

→ Am has a spreadsheet monthly timestep

⑦ Est. GW mound condition due to CUPPID supply problems -
AVG CUPPID
DRY CUPPID

⑧ Make a chart of what scenarios we will run & explain what the purpose of each run will be & the assumptions each was based upon.

Model Run Scenarios: December 1st have mostly complete

⑨ (a) 25,000 acres more CREP/EOIP
(b) Vegetation Removal → what do we do w/ Phreatophyte layer Different approaches
(c) Regulation Runs → may just use existing
Main question is if what we have done in the past

⑩ What method do you use to judge each NRD's compliance - reduce CU to a target AF value based on historical % impact on base flow.
Allocations could be adjusted to CIR

Oct 24, 2006 ANN, MARC, PAUL, MIKE

Potential CU, pumping, Acres estimation reference development
Run Model -

Various reduction scenarios

for sake of discussion let's look @ 30,000 AF reduction

Pumping is X% - chosen for each run

Plug into Accounting - choose which run impact results

In model CU = 80% of pumping

How can you correlate an acres reduction to a reduction in CU in a similar fashion as reducing pumping by X% and looking at impact reductions. What is the best way to do this?

Example:

Goal 30,000 AF pumping reduction

XNRD has a baseline pumping of 100,000 acres

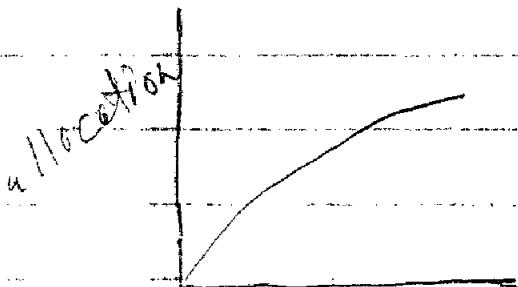
What is XNRD portion?

XNRD is responsible for 50%, therefore they need a 15,000 AF reduction in pumping. This would mean that their new total pumping would be 70,000 AF.

What allocation would result in that level of pumping? The pattern is that not all of allocations are used. We want a curve to relate allocation

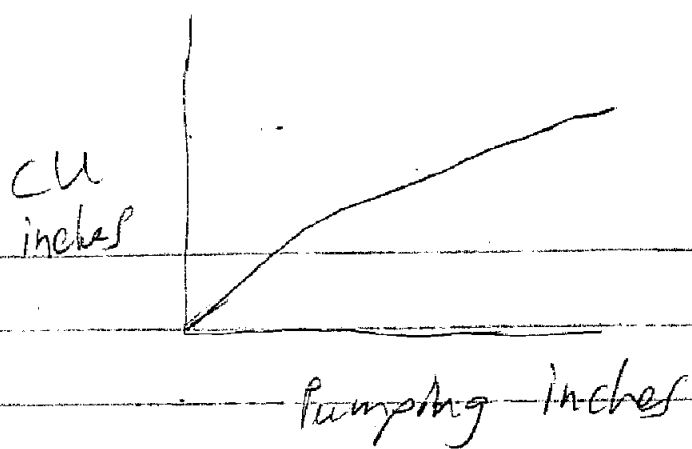
actual pumping to likely actual pumping

Always remember that in the model pumping $\times 0.8 = CU$



McDonald Morley response to report - possibly

guidance in pumping



How close is pumping reduction % to CU reduction % at various points in the basin, using realistic numbers we will be looking at in the future

Can we back calculate acres once we have CU related to pumping totals and we have picked an appropriate level of pumping that is likely to have a desired amount of consumptive use. That would allow us to look at allocations. We would want to do comparisons with blends of alluvial and upland adjustments.

Dec 15, 2006
10-3 PM RRNRD
Retreat