

EXAM #3 PRIMER

NOTE: BRING A GRADEMASTER FORM (#25420) TO EXAM

Exam #3 = 80 Points

SHORT ANSWER

1. People living in places such as La Mesa buy their water from the Helix Water District. **Draw a flowchart** indicating where this water comes from (including appropriate aqueducts, rivers, and mountain ranges) and the agencies involved. (*Note: Do not include Districts that are not directly involved in providing water to Helix.*)
2. Consider Mono Lake. (a) Why is Mono Lake *naturally* salty and alkaline? (b) How was salinity and alkalinity affected by the diversion of Mono Lake feeder streams to Los Angeles?
3. With accuracy, name MWD's largest voting member vs. its largest customer.
4. Explain allocation of Colorado River water, both between States and within California. Be specific.
5. Explain the current "water war" involving the Colorado Basin States vs. CA; between the MWD, the IID, and the SDCWA; and, the role of the Salton Sea.
6. Identify the different dimensions of agricultural specialization in California and explain the environmental factors that are responsible for the incredible agricultural productivity within the state.
7. Explain why the MWD was created and for what purpose. How does that differ from the modern role of the MWD?

MATCHING, MULTIPLE CHOICE, TRUE/FALSE

8. Explain the development, ownership, and key aspects of the following Water Transfer Projects: **Colorado River Aqueduct**, **All-American Canal**, **Los Angeles Aqueduct**, and **Hetch Hetchy**. Which serve mainly agriculture? Which are "energy-positive"?
9. To which Water Transfer Project(s) were the following centrally-important: Mulholland, Eaton, FDR, federal construction of the Hoover Dam?

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10. Be prepared to answer questions related to the topics discussed within the in-class reading discussions from Chapters 7 and 9.

ESSAY QUESTION

(Around 20% of Exam Grade)

11. Explain how water politics have influenced the development of the city of Los Angeles starting in the 1900's.

MAP ADDITIONS:

(Suggestion: First make Xeroxed copies for yourself)

12. Neatly sketch and label the following Water Infrastructure in pencil, then use a "highlighter" to highlight using the required color:

- a) **YELLOW:** The Los Angeles Aqueduct (including Mono Basin, Owen's Valley, LA Basin)
- b) **BLUE:** Add-in Hoover Dam and Lake Mead *
- c) **GREEN:** The Colorado River Aqueduct (including Lake Havasu and the terminus reservoirs of Lake Matthews** and DVL)
- d) **BLUE:** The Hetch Hetchy Project (including Tuolumne River)
- e) **BLUE:** The All-American and Coachella Canals
- f) **ONLY PENCIL:** Three major faults crossed by the aqueducts: San Andreas, Garlock, & Sierra Nevada Faults



* These are not in CA, and must be added to this map

** These are in the "San Jacinto Plain" of Riverside County (on this map, between the labeled "Santa Ana" and "San Jacinto" Mountains)