

UC DAVIS EXTENSION
LAND USE AND NATURAL RESOURCES
SPECIALIZATION IN SUSTAINABLE
GROUNDWATER MANAGEMENT

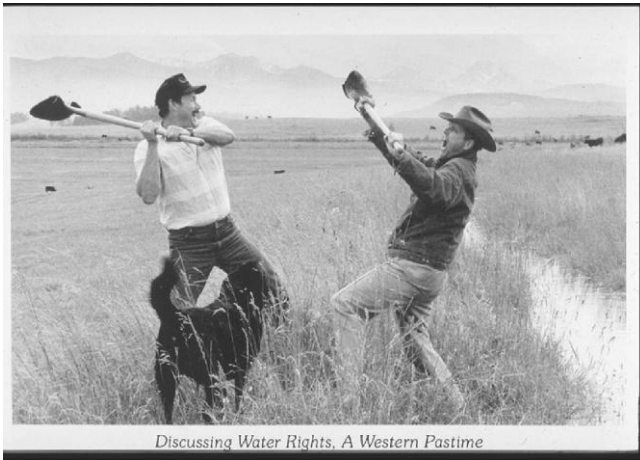


Jeff Loux, Ph.D.
Department Chair, UC Davis
Extension
April 30th, 2015

WHO ARE WE ? LAND USE AND NATURAL RESOURCES AT UC DAVIS EXTENSION

- *30+ years of classes and training*
- *All aspects of planning, environmental laws, water management, GIS, transportation, etc.*
- *Classes, seminars, conferences, on line classes, trainings in Davis, Sacramento, field and on line*
- *Land Use and Environmental Planning Certificate*
- *Green Building and Sustainable Design Professional Concentration (On Line)*
- *Geographic Information Systems (GIS) Professional Concentration*
- *20 years of water education*

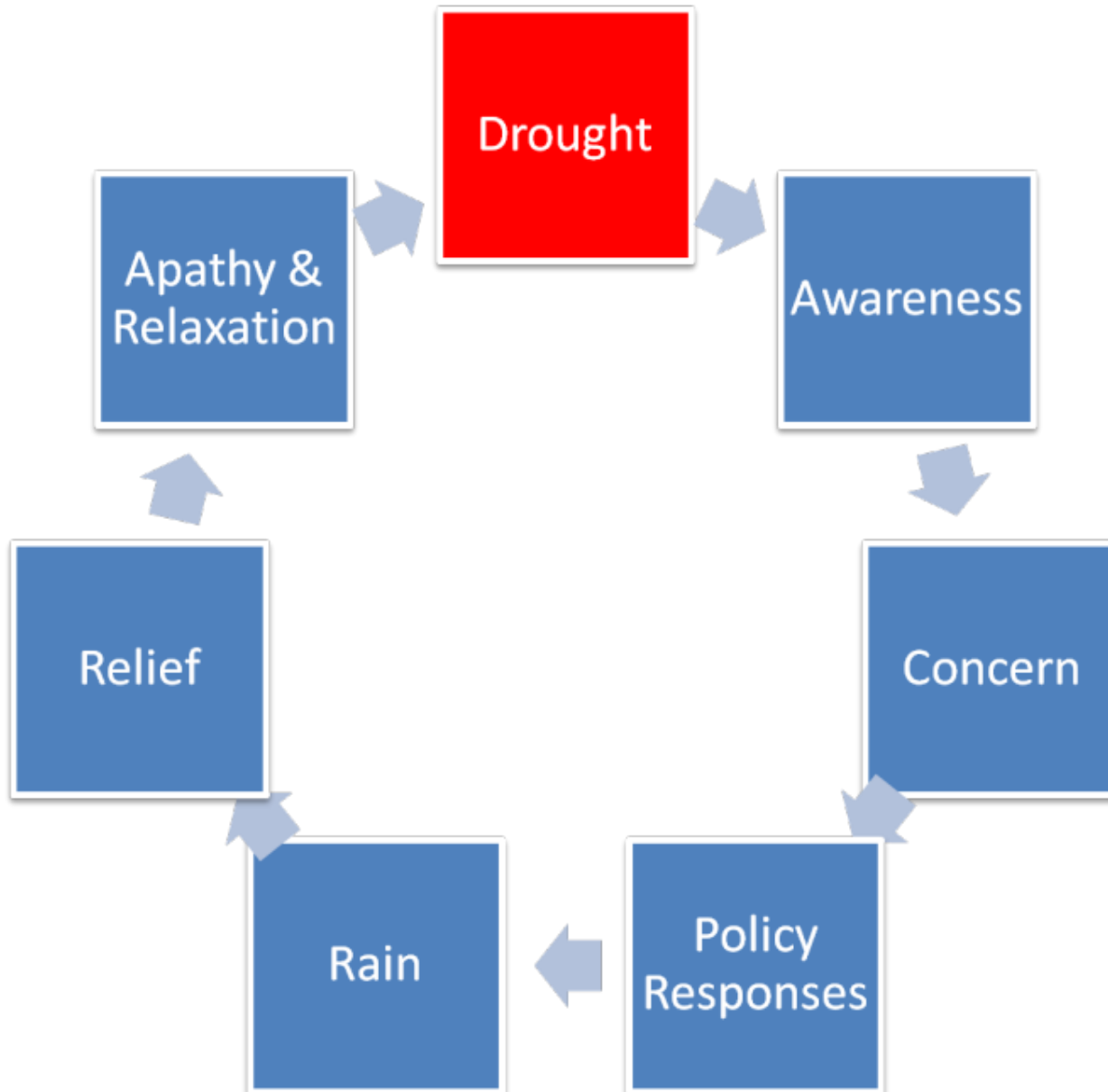
MOVING TOWARD GROUND WATER COLLABORATION?



Water wars

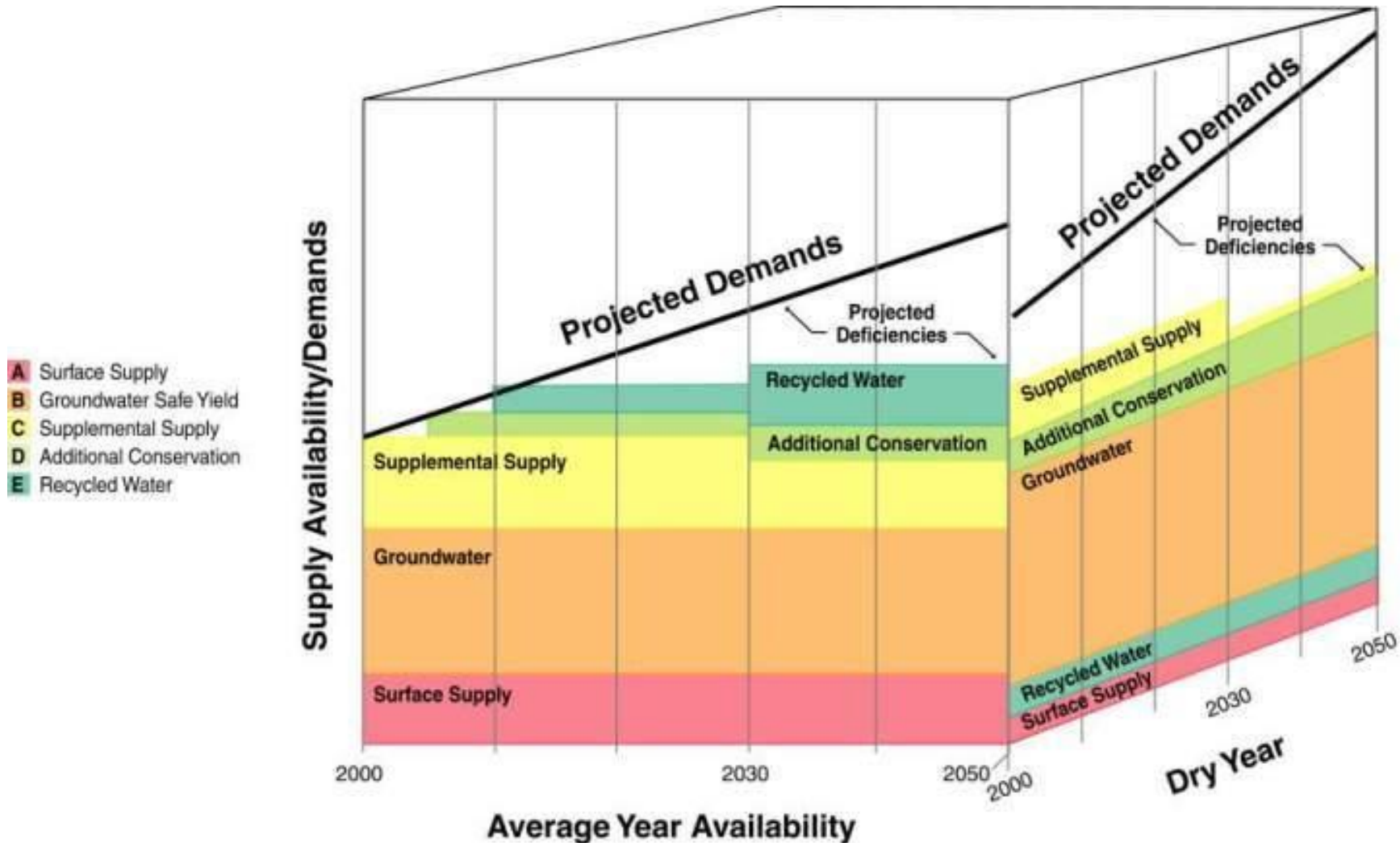


HYDRO – ILLOGICAL CYCLE

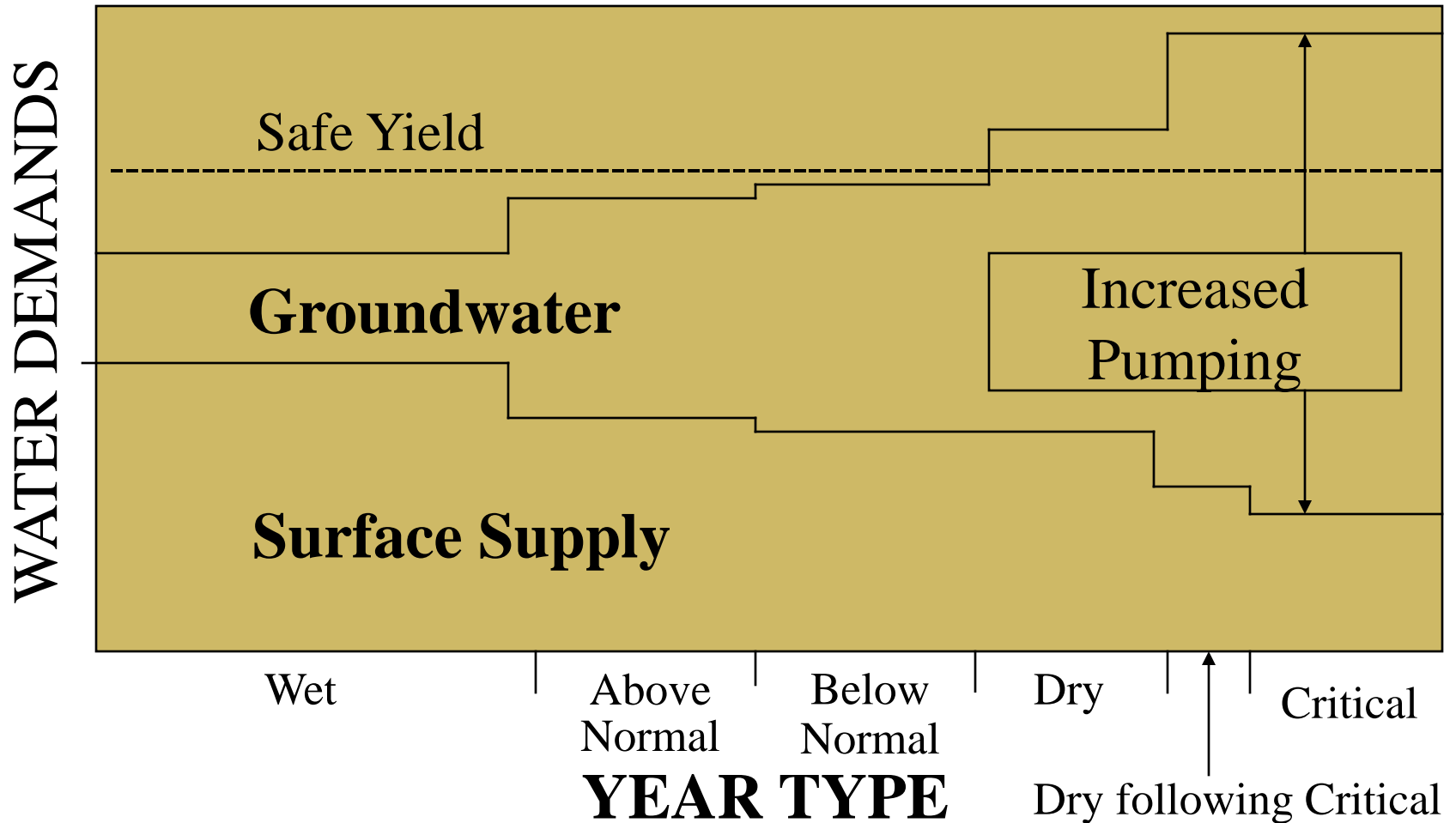




COMPLEX AND INTEGRATED PORTFOLIO WATER MANAGEMENT



CONJUNCTIVE USE OF SURFACE AND GROUNDWATER



Ground water Recharge & Conjunctive Use



Natural and constructed recharge areas must be protected to maintain groundwater quantity and quality. (DWR photo)

NEW PROGRAM: SPECIALIZATION IN SUSTAINABLE GROUNDWATER MANAGEMENT

- Sustainable Groundwater Management Act has fundamentally changed the landscape for water managers throughout the State.
- UCDE is pleased to announce a new program focused exclusively on ground water management in today's complex regulatory and hydrologic environment.
- The program is designed for practitioners from all perspectives: farm advisors and managers, water districts, cities and counties, State regulatory agencies, engineers, hydrologists, planners and policy analysts, attorneys, IRWM specialists, administrators, environmental and water resource scientists and advocates, and others.
- The program is comprised of 3 integrated courses taught via weekly webinars.

CLASS 1: GROUNDWATER LAW AND HYDROLOGY

- Effective groundwater management requires a combined understanding of the legal principles and physical characteristics of the resource.
- Explore the fundamental tenets of California groundwater law, including distinctions between percolating groundwater and surface water, interrelated concepts of safe yield and overdraft, and different categories of groundwater rights.
- Learn basic hydrologic and hydraulic principles, data collection, monitoring, modeling, error and risk calculation, and data systems development, specifically geared toward the new legislation.

CLASS 2: ADVANCED GROUNDWATER LAW AND HYDROLOGY

- Students will build upon skills developed in Groundwater Law and Hydrology and further their understanding of legal and technical topics.
- Participants will work on their own ground water plans – data needs, monitoring networks, modeling needs, broad basin objectives, boundaries, governance options, policy issues, etc.
- Instructors will provide real time and after class feedback

CLASS 3: DEVELOPING GROUNDWATER SUSTAINABILITY PLANS: STRATEGIES AND PROCESS

- In this course, participants will learn about the process and content of the groundwater sustainability plans and analyze various implementation strategies that meet the requirements of the Sustainable Groundwater Management Act.
- The course will also introduce participants to the skills and approaches to work collaboratively with neighboring water districts, local jurisdictions, private land owners and State and federal agencies.
- Help establish boundaries, governance, strategies and modeling/monitoring

SPECIALIZATION SPECIFICS

- A UC Davis Specialization is a non-academic sequence of courses representing focused study of specific knowledge, skills and tools
- Format: Webinars held Tuesdays 12:00 -1:30 pm
- Starts September, 2015 and conclude in March, 2016
- Contact Andy Roy (atroy@ucdavis.edu) for more information



危机

Chinese ideogram
for “crisis,” which
is comprised of the
characters for “danger”
and “opportunity.”