

1. What are the top 3-5 grape related accomplishments of ARS during the past 3 years? What priorities of industry have been met?
 - Watershed based research in other cropping systems (corn, soybean, cotton) is good, but needs to expand to grapes
 - CEAP - (conservation effects assessment program) needs to include grapes

2. What major gaps still exist between ARS' research focus and the needs of industry?
 - Region and state specific problem
 - Precip > ET in eastern states will have transport of agchemicals offsite
 - Salinity in arid env is a potential problem
 - Tile drained grape fields
 - High intense storms/Climate change on WQ
 - Over-spray drift to surface water
 - Impact of grapes on hydrologic cycle in a watershed
 - Increase in grape production effects on regional hydrology
 - Waste water use or reuse in grapes
 - Disconnect of grape production with other Federal WQ programs, for example the Russian river

3. What are the future research projects could address these gaps?
 - Impact of grapes on hydrologic cycle in a watershed
 - Regional ET assessment
 - Competing uses between grapes and other ag systems or urban
 - Quantification of water use for wine production
 - Economic assessment of water use in grape and wine production
 - Spatial analysis of water issues (CA, WA, NY, etc)
 - Water management to optimize health benefits of grapes

4. Which teams of scientists (ARS, university, and industry), that currently exist or that could be created, are in the best position to address the research gaps?
 - Watershed modeling groups in ARS
 - ARS ID and TX for regional ET estimation
 - USGS RS-AZ RS-Beltsville
 - UC_Davis U of AZ
 - PM10, PM2.5 programs

5. How can the progress and impact of ARS research on grapes be increased with existing resources?
 - Resource relocation from corn and other crops to support grape research on WQ at watershed scale
 - Incorporate grapes in existing research programs

6. How will research results be extended to end users through an outreach plan? What is that outreach plan?
 - Industry meetings
 - Trade publications
 - Extension is most beneficial to smaller farms
 - Websites
 - Symposiums
 - Convenient technology, easy to adopt, save time and labor
 - U-tube
 - Large processors and coops
 - Menu of how farmers get their info (more than 1 way)