Virgin River Watershed Analysis Information Meeting Orderville, UT July 10, 2007

- **1. Attendees:** Approximately 23 people attended the informational meeting at Orderville Town Hall. Sign in list of attendees is attached.
- 2. Watershed Analysis Overview (Scott Estergard): This presentation reviewed the study authorization and purpose and gave an overview of components of the study. Major issues being considered in the study include: Floodplain management, land use planning. Invasive species, water availability and river function. Major components of this study include a Needs Analysis, Floodplain Strategy, and Watershed Strategy. Presentation is attached.

Discussion among the group included: need for smaller plans that can be carried out, water supply is an issue and need either regeneration or additional storage in the upper watershed, instream flow and water rights are issues. Need information describing wetland regulations, asked about Wild and Scenic Rivers and what itmeans, upland uses and public use of the watershed affects everyone. Tools and data for planning were discussed at the Mesquite meeting in May and there was some discussion of information for local planning. NRCS Rapid Watershed Assessments may provide some useful information and a presentation on RWA was provided by NRCS.

3. NRCS Rapid Watershed Assessments (RWA)-Utah (Lee Woolsey): NRCS National Strategic Plan focuses on natural systems as key to conserving natural resources and encourages collaborative efforts to maximize results. NRCS will provide services (technical assistance, technology, information, and programs) on a watershed basis. Rapid watershed assessments provide initial estimates of where conservation investments would best address the concerns of landowners, conservation districts, and other community organizations and stakeholders. These assessments help land-owners and local leaders set priorities and determine the best actions to achieve their goals. 8 RWA have been completed in the State of Utah. Discussed the data gathered to perform a RWA including interviews and technical data such as land use, precipitation, ownership, land practices, etc. RWA's can: Provide information to develop business plans and strategies, Assist NRCS & others obtain technical & financial assistance, Provide information to help program managers & decision makers, Provide focus for forming effective partnerships, Lead to more detailed, comprehensive assessments and plans where needed to solve resource issues Seek and promote cooperative efforts to achieve conservation goals, Facilitate the growth of market-based opportunities that encourage business and industry to invest in conservation on private lands, Provide information and assistance to encourage and enable locally led, watershed-scale conservation.

Mr. Woolsey provided two aerial maps of the Long Valley area and discussed availability of online images at Virtual Utah: http://earth.gis.usu.edu/utah/

NRCS also has additional data and information available. Contact information for Mr. Woolsey is

Mr. Lee Woolsey 340 North 600 East Richfield, UT 84701 Phone: 435-846-6441 Lee.woolsey@ut.usda.gov

4. Study information is being updated on the Los Angeles District website at <u>http://www.spl.usace.army.mil/virginriver.htm</u>. As the study progresses we will continue to provide information to those that signed up on the contact list. If you have additional questions or need more information please contact Scott Estergard, Study Manager, at 602-640-2004 (ext 242) or <u>scott.k.estergard@usace.army.mil</u>.

Scott K. Estergard

Virgin River Watershed Analysis Meeting Orderville, Utah July 10, 2007

Name	Address Phone Email	Organization
Lee voolsey	B40 No 600 East 435-396-6441 Richfield, hT. Lee. Woolser @ 84701 ut. usda. gov	NRC5
Duke Cox	Box 157 648-3300 Ondanyille UT 84358 coxlinestake onderville. Act	Kane County Commission
Roger J Chrombulan	Box147 435648-2324 Clendolu Ut. Chamborlum rank 84729 @ yakoo - Com	Long Vally Server Lup De
Jarad Brinkerhoff	P.O. Box 118 435-648-2749 Glandale, UT 84729 brinkerhoss10 g gmail.	Glerdde Town
Mike Chambalan	POBul 219 435-648-2141 Glondak ut 84729	Glendahe Tour Glendahe Tovigatoric Chambular Rauk
Darrell Foote Warren Foote	P.O. Box 220 Ordanille, 4+84758 725-843-7734 LONIDE Kand, JE+741 435-644-3520	Barroctes Ranch, Enc.
Mel Cor	P.O. Box 32 Ordewell 2 UL 648-34. 705. 200E 84758	94 Orderville Tom Planny & Zarin

Virgin River Watershed Analysis Meeting Orderville, Utah July 10, 2007

Name	Address	Phone	Email	Organization
Gerry H Hayt	Box 14 Orderwille u 84	t 648 2209	Hoyfdêyaha: Com	East Fark Uirgin Commissioner
Clarence Spercer	1301 (78 84729	448-2	45E	East Poub Uwgiz, Comment.
Corey Cram	\$4770			Wash Co. Water Corris Dist
Marlin Esplin				kave co water Cong. Ord. Irr. Co. Long Valloy Water Users Thairman
Lisa Church	318 N. 1009 Kanab, UT 847	41 lisa	- Church C bim gov	Bim-Kanub Field office
Brad Reeve	Bex. 277 Panguitch, Ut	the 84759	-0277 wellowt.asch.gov	F'SA

Virgin River Watershed Analysis Meeting Orderville, Utah July 10, 2007

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Name	Address	Phone Email	Organization
Dellas Some	P.O. Bert	85 Hlendele Lit 8475	Slandale drugster Company.
Dicki Tyler			2429 NRCS, RC+D K13 ykr@st.usdq.gov
Lee CChamberlain	POB0x 111 6	landale UF, 84	729 ICCLambolain FLITrust (LydiasCynt Dry used
Gary Zabriskie	Street Address: 1070 W. 1600 Sou	ith Bldg. B. St. Ge. Utc	171 Five County Associat 1550 of Govts. De gzabriskie at fcaog.state.ut.u
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Orderville, UT July 10, 2007

FY 2006 Civil Works Watershed Assessments

2006 Energy and Water Appropriations (PL 109-103) Directs the Secretary to conduct:

"at full federal expense, comprehensive analyses that examine multi-jurisdictional use and management of water resources on a watershed or regional scale"

5 Projects Nationwide

ini.

Great Lakes Habitat Protection and Restoration Delaware River Basin, NY, PA, NJ and DE Comprehensive Water Resource Planning for the 18 Western States Middle Mississippi River (MMR, Regional Corridor Virgin River and Tributaries – Utah, Arizona and Nevada

http://www.usace.army.mil/civilworks/cecwp/news/watershed_06.html

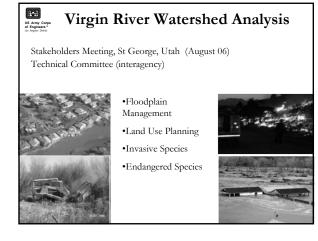
FY 2006 Civil Works Watershed Assessments

GOALS

Improved Corps support of state, tribal and local jurisdictions and their resource agencies in multi-jurisdictional integrated water resources management efforts

Better appreciation and understanding of the Corps' roles in water resources management among state, tribal and local jurisdictions, and federal and state water agencies to improve integration and multi-jurisdictional management of water resources

- Greater participation of Corps technical specialists in non-Federally directed water resources initiatives, such as comprehensive water planning, when the non-Federal entities desire and request such participation
- Established priorities for water resources planning and investment in coordination with states, tribal and local jurisdictions, federal and non-Federal water managers
- Collaboration within Federal agencies to bring programs and resources together to provide integrated solutions



Watershed Needs Analysis Floodplain management strategy Watershed Strategy

Virgin River Watershed Scope

Watershed Needs Analysis

- ^o Describe past/ongoing efforts, reports
- o Provide contacts
- o Define unmet needs

Virgin River Watershed Scope

Floodplain management strategy:

Information Collection Lessons Learned 2005 Data Synthesis/Summary

1 Mil

Mitigation Activities Flood hazard/risk description Floodplain management/mitigation Alternatives

Flood Management Strategy Recommended mitigation Implementation Plan Communication Plan



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Watershed Strategy:

- o Coordination/Communication Plan
- o Invasive species strategy
- o Priorities
- o Implementation Plan

Virgin River Watershed Strategy

Management/General Invasive Species River Function Land Use Planning Water Supply/Quality

Inventory and Use of "Rapid" Watershed Assessments

ONRCS

Lee Woolsey, Resource Conservationist, Richfield, UT 435-896-6441 ext 140 Email: lee.woolsey@ut.usda.gov

The Natl. Strategic Plan watershed approach:

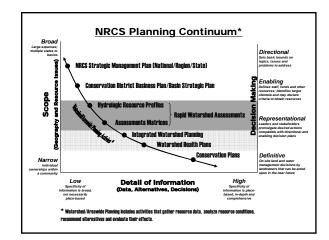
- Focuses on natural systems is the key to conserving natural resources
- Encourages <u>collaborative</u> efforts to maximize results

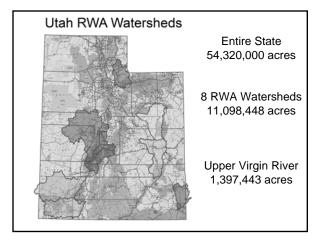
And that NRCS will:

- Provide services (technical assistance, technology, information, and programs) on W/S basis
- Use RWAs to tailor NRCS services
- Develop indices to measure resource health and accomplishments on W/S basis

What are RWA's?

Rapid watershed assessments provide initial estimates of where conservation investments would best address the concerns of landowners, conservation districts, and other community organizations and stakeholders. These assessments help land-owners and local leaders set priorities and determine the best actions to achieve their goals.





The First Step is to develop a Watershed Resource Profile

A descriptive set of data portraying the significant natural resource features of the watershed

Watershed Resource Profile Contents

Introduction: Summary of the profile including its location, size, ownership, resource concerns and conservation status.

Physical Description: Provide information on land use, precipitation, soils, stream flows, water rights, and farms

Social Amenability Towards Conservation Survey of land owners willingness to adopt conservation and the community's responsiveness to address social needs.

Resource Problems:

Water quality & quantity limitations, endangered species, soil erosion, and SWAPA resource concerns.

Conservation Progress: PRMS/PRS reported conservation treatments and cumulative conservation application including WRP and CRP.

Primary Data Gathered for Profiles by Querying Local Staff and Partners

- Significant Resource Concerns (SWAPA +H) in Watershed by Landuse
- Cumulative Status of Conservation
- Landowner Attitudes Towards Conservation and Social Capital Available to Address Issues

Watershed Profile Questions

- What are the significant resource issues and concerns facing agriculture in my state?
- Is there data available that is pertinent to these issues?
- Is the available data on a watershed basis? If not is there a way to convert it to a watershed basis?

Kane County **Resource Assessment Survey Project** August 25, 2005 Kane County Soil Conservation District

The Kane County Soil Conservation District received 22 resource assessment surveys from citizen/stakeholders in Kane County

Top Ranking Concerns that should be addressed immediately: 1. Adequate water supply for desired uses 68%

1. Presence of Invasive plants including noxious weeds	68%
 Loss of open space of Agricultural lands 	68%
2. Wildfire hazard	59%
Soil loss or erosion on land or along stream channels	55%
Ground water quality and quantity	55%
Storm runoff or flooding	55%
Urban/Suburban growth	55%
Adequate food, water and cover available for livestock	45%
Available water is clean enough for desired uses	41%

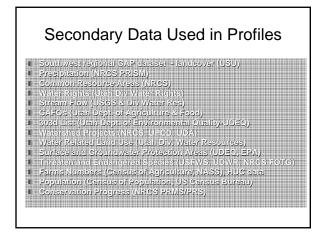
Top Ranking Concerns that should be addressed in the future:

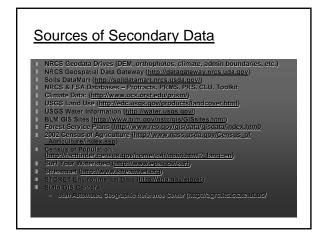
55%

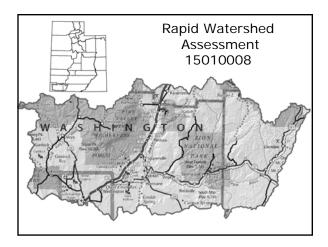
36%

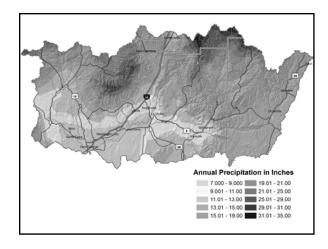
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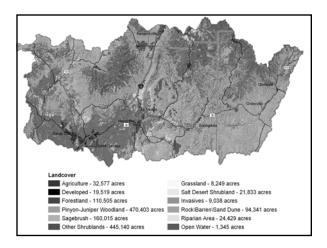
- 1. Available water is clean enough for desired uses
- 2. Soil contamination due to salts, chemicals or other materials 50%
- 3. Plant health, production and adequate quantities 45%
- 3. Adequate food, water and cover available for wildlife 45%
- 41% 4. Soil loss or erosion on land or along stream channels 41%
- 4. Adequate support of historic/prehistoric resources
- 5. Adequate energy sources available
- 5. Wildfire hazard

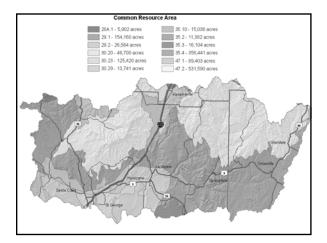


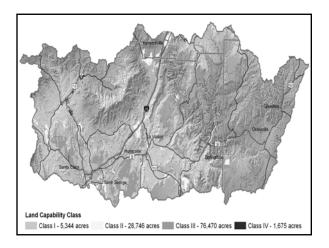


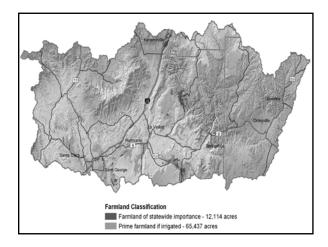


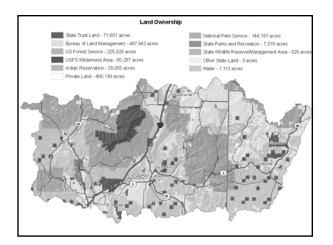


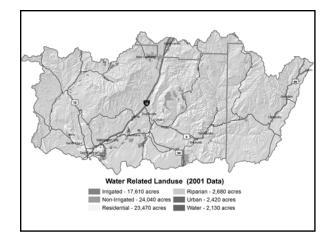




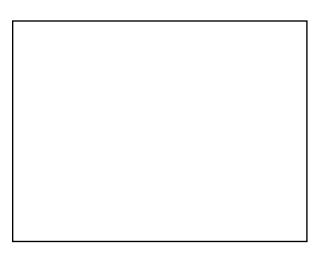












Rapid Watershed Assessments can:

- 1. Provide information to develop business plans and strategies
- 2. Assist NRCS & others obtain technical & financial assistance
- 3. Provide information to help program managers & decisionmakers
- 4. Provide focus for forming effective partnerships
- Lead to more detailed, comprehensive assessments and plans where needed to solve resource issues Seek and promote cooperative efforts to achieve conservation goals.
- Facilitate the growth of market-based opportunities that encourage business and industry to invest in conservation on private lands.
- 7. Provide information and assistance to encourage and enable locally led, watershed-scale conservation. http://www.nrcs.usda.gov/about/strategicplan/StratPlan_read.pdf

RWA at NRCS Utah State Level

Use RWA's to:

- Respond to National Strategic Plan and possibly to policy in next Farm Bill.
- Encourage collaborative efforts with partners on watershed approach.
- Target areas needing more comprehensive watershed health implementation strategies.
- Provide information that can be used at local level with SWCDs, other partners and landowners.

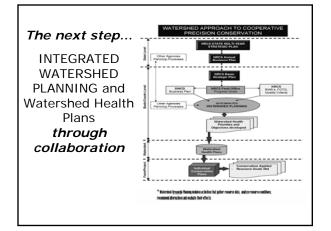
RWAs not looked at as being an end product.

RWAs at Local Level

- Use in developing Basin Strategic Plans & SWCDs Business Plans
- Revise rapid RWAs with more local input to increase stakeholder involvement & support.
- Integrate RWA with other watershed scale efforts.
- Assess local community visions for their watersheds
- Prioritize local provision of NRCS services, programs and technical assistance

Rapid Watershed Assessments do not:

- Address cumulative effects
- Consider infrastructure needs
- Establish water allocations
- Set requirements for meeting water quality standards
- Satisfy requirements under NEPA or the Endangered Species Act
- Monitor conservation implementation progress



Any Questions?