



Partnership for Lake Abert and the Chewaucan Meeting #9 June 11-12 in Paisley, OR

Participants present: Erin Wheeler (Water Caucus), Colleen Withers (CWC), Vanessa Loverti (FWS), Ron Larson (OLA), Teresa Wicks (Bird Alliance of Oregon), Cole Hendrickson (DEQ), Tess Baker (CWC), Justin Ferrell (LCSWCD), Philip Milburn (ODFW), Barry Schullanberger (Lake County Commissioner), Matt Anderson (OWRD), Ed Contreras (IWJV), JP Patt (Confederated Tribes of the Warm Springs), Ryan Houston (ONDA), Jack O'Leary (CWC), Scott Hynek (USGS), Quincy Warner (LCRI), Steph Hayes (WaterWatch), Christine Rumsey (USGS), Anton Chiono (CTUIR), Sean Chambers (SONEC/NRCS; Local Producer), Marty St. Louis (ODFW, retired), Ashley Tunstall (Ducks Unlimited), Bonnie Baxter (Great Salt Lake Institute, Westminster College), Ramon Naranjo (USGS)

Oregon State University Team Members present: Aaron Wolf, Henry Pitts, Zoe Rosenblum

Oregon Consensus Facilitation Team present: Bobby Cochran and Jennah Kiefer

Action Items				
Compile outputs from the small group brainstorm during " <i>Part I: From planning to doing</i> " into a criteria framework for sorting and prioritizing strategies and actions.	Anton, Ashley, Colleen and Steph			
Add clarification around Appendix A.	JFF Team			
Incorporate final edits to the JFF Shared Narrative Report and share back to the full group for a final review.	JFF Team			
Complete consensus checks on the Charter (following up with voting members who were not present at the meeting) and on the final JFF Shared Narrative Report.	OC			
Connect OWRD to SNOTEL site development discussions.	OSU			
Explore funding opportunities for marsh assessment.	OC/Planning Team			
Discuss long term management plan for JFF database, OSU StoryMap webpage, and SNOTEL site.	All			





Breakfast and Welcome Good food, good coffee, good people!

Agenda Review, and Updates

The group completed a round robin introduction- new additions to our families was a running theme!

Joint Fact-Finding: What Are the Key Facts?

Aaron Wolf, OSU, launched this session by polling the group to see who had and had not read the Joint Fact-Finding Document, also called the Shared Narrative Report. About four people indicated they had not read it. He shared that those who hadn't yet read it would have until the end of the day to do so, and to provide feedback.

The Joint Fact-Finding Team presented updates on the JFF Shared Narrative Report. Henry Pitts provided an overview of the iterative development process, and highlighted new components and major changes since the full group last reviewed the document. He noted that it has gone through twelve different versions to date. The new additions and edits included: an executive summary; land acknowledgement (removed language that potentially erroneously indicated that formal consultation occurred, and now uses the word "engaged"); Glossary; Setting Context (which broadly describes the region's characteristics and includes a brief discussion of the economy in the area); Appendix A (prioritized information and acknowledgements of information not known to consider in the future, as discussed in prior meetings) and Appendix B (additional information that wasn't specifically suited for the database). He noted that additions to the Glossary section are welcome and will be completed during the copy editing phase.

Significant edits in each content chapter were also presented by the respective community lead, where available. Descriptions of irrigated acres in the Water Resources chapter were edited to better represent the numerical data presented in the Phillips and Van Denburgh report. Ron Larson stressed the difficulty of trying to predict and understand climate change with old data and new fires. More context was provided on the role of Lake Abert in the larger system of saline lakes in the Fish & Wildlife chapter. Jack O'Leary and Autumn Muir offered their perspective on the Agricultural Practices and Upland Process chapters respectively. Henry Pitts reminded the group how the Cultural Heritage/Lived Experience chapter was structured, and outlined the language shifts that more accurately reflect Tribal Sovereignty, Reserved Rights, and Claims. Ed Contreras also offered an overview of the Drought Considerations chapter.

The group discussed Appendix A on future actions. It was acknowledged as a good way to capture questions and information that will be important to decision-making down the road but doesn't seem to fit with the purpose of JFF's emphasis on known information. The suggestion was made to separate this information into a different document, or at least include a very clear introduction about what Appendix A is and is not. There was some apprehension expressed regarding the large length of the document and difficult accessibility. Another suggestion was raised, recognizing that some statements are "best guesses" based on observations and should be noted explicitly as such (and not confused with data-driven facts), as well as updated overtime as better information is





known. The group also discussed how the JFF document could function in an editable, "living" format in the future. Henry offered more detail on the Resource Database, which will collect and compile all relevant sources, datasets, and other materials that pertain to the Partnership's work. This will include all cited sources in the JFF Shared Narrative Report, but is intended to also expand beyond the data in the report. Future discussions should address how to handle future "updates" to the JFF knowledgebase.

Part I: From Knowing to Planning

Bobby Cochran, Oregon Consensus, read statements from the JFF Shared Narrative Report to do a bit of a "fact check" exercise. He then suggested that the group use the day to set some initial goals and targets and then wait until later to get more precise. A few individuals engaged in a discussion cautioning that the group can't set goals until they have data (and that comparing Lake Abert to Summer Rim just is not adequate). This led to discussion around how to proceed without data and whether the group could help leverage/push agencies for funding to collect more data to manage resources wisely, since about 90% of OWRD gauges are west of the Cascades. Others agreed and also highlighted the importance of articulating how data is a must-have to achieve the goals of the group.

Bobby then showed an example of a theory of change for OWEB Strategic Action Plan. Others weighed in on strategic planning experiences and strategies, noting that the scale of the chain is sometimes not aligned with the focus of the collaborative. Bobby stated that it was important to first define the entire system and then let the collaborative hone in on specific processes or issues within the fully framed system. He encouraged the group to set specific, measurable, achievable, results oriented, timely, equitable (SMART-E) goals. Someone suggested selecting indicators that could then be influenced by the group's actions.

Part II: From Knowing to Planning

The group then divided into five small groups and collaboratively identified outcomes, objectives and indicators to help form the basis of what could be the Partnership's future strategic action plan. A table of the results is captured in APPENDIX A of this summary (and spreadsheet linked here).

Group 1 (*Erin, Colleen, Vanessa, Ron, Teresa*) identified two goals, for Lake Abert to continue its role supporting shorebird populations, and for the Chewaucan Basin & Lake Abert to support ranching & thriving communities.

Group 2 (*Tess, Justin, Philip, Barry, Matt*) stated key outcomes of maintaining lake elevation as many years as possible naturally; maintaining flows in the uplands, and foliage and forest management can have a huge positive impact on those efforts; and sustaining agricultural community over time.

Group 3 (*Autumn, Ryan, Jack, Ed*) divided their activity into three key sections: uplands, the lake, and the marsh. In the uplands, outcomes included a healthier forest and soil stabilization. For the lake, outcomes include a long term, healthy, productive marsh. This could be indicated by X tons of hay every X years, X heads of cattle on the marsh





in different seasons. Other outcomes include supporting riparian habitat, and improving forage quality, wildlife habitat, and water management.

Group 4 (*Anton, Christine, Steph, Quincy, Scott*) outlined a general outcome as a resilient community and ecosystem (defined as a system/community that is healthy and able to bounce back from disturbance), as well as having useful data. Data collection is not the goal in and of itself- it needs to inform management and can answer specific questions. The question was raised of optimizing the system or the lake overall. The group further stressed the importance of communication, trust, and good faith. They also talked about water rights, and expressed concern about over-allocation of water, suggesting that the group not allow Oregon to issue more water rights in the basin.

Group 5 (*Ashley, Marty, Bonnie, Ramon*) discussed three outcomes: increase water usage efficiency through infrastructure replacement, increase understanding of the snow storage term by implementing SNOTEL sites w/ geospatial analysis of lidar (SWE), and further exploring the water budget.

Part I: From Planning to Doing

Bobby then asked the small groups to begin considering criteria to help sort and prioritize potential strategies and actions. The list of potential criteria included:

Group 4 discussed these criteria: cost, urgency, long-term viability, relative simplicity, strategic alignment, timeframe, interdependencies, legal considerations, and interdependencies. They then discussed impacts: positive/negative tradeoffs, resource accessibility & availability, the risk of inaction, consensus or agreement, as well as certainty of outcome.

Group 3 echoed criteria from Group 4, but also discussed the idea of project readiness/ripeness (social/ administrative capacity), as well as leveraging opportunities to build off already existing or planned work. This was echoed by Group 1, who also stated the need to consider long-term benefits or harm. A transparent storytelling process was also outlined as a need, which prompted a call for general visibility of PLACe work. Group 1 and 3 also asked for measurability, and metrics to assess success.

Group 2 discussed the willingness to participate and how decisions will occur, as well as geographic focus within the basin. They made a distinction between holistically beneficial projects, versus specific area focused projects.

Group 1 also echoed this point, wanting to bring the greatest benefit to the system/watershed. They mentioned minimizing adverse effects. The discussion then moved toward future costs and fundability - potentially planning in a way that enables access to outside funding. Ron suggested starting with low-hanging fruit and then building trust over time before getting into more difficult decisions/actions. Group 5 discussed cost, as well as providing further context on the project. Discussions of cost also included a consideration of "fundability," which is connected to broader feasibility overall.

The facilitation team suggested trust-building could also be a useful criteria, with regard to the potential impact on and relationship with the greater community. The group then had a larger discussion about criteria, which included ranking criteria and establishing thresholds needed for action/prioritization. Ryan mentioned that some things are





binaries whereas others will be scalar. An additional suggestion was made to develop a common framework to make a narrative decision rather than a numeric one. A need that arose was a holistic overview of funding opportunities across the state, and comparing the criteria in those applications to the PLACe criteria. Bobby noted that ample funding was available for this phase of work, and that it could be more effective to focus on projects the group can agree to, rather than focus on funding as a limitation.

Anton, Ashley, Colleen and Steph volunteered to work together to compile these criteria-brainstorm outputs into a framework.

Part II: From Planning to Doing in Wet Years

Bobby utilized the conceptual model of the basin to guide feedback from each of the small groups as they reported on the strategies and activities breakout session.

Uplands Discussion

Group 5 mentioned cloud-seeding, focusing on forest health improvement (fire, planting, invasive grass control), and promoting ecotourism. Group 3 defined one strategy as "identifying priority areas for upland restoration." Group 4 echoed this sentiment, with an emphasis on wet meadow restoration. Beaver related work, specifically beaver dam analogues, were also identified as an action to help keep water in the uplands. There was a broad discussion of water storage in the uplands, and if it could benefit Lake Abert. Autumn also raised the need to reduce fire potential in the uplands by removing the dead wood. Teresa Wicks stated that many closed basin systems in eastern Oregon have uplands with high recharge potential, so it could have a benefit in the Chewaucan Basin. Broad questions were asked about groundwater connectivity, and the potential need for a groundwater report was raised. The broad seasonal needs for the lake, and timing of flow from the uplands through the marsh was also discussed. Bonnie and Ron offered their perspective on food web productivity, and the needs for brine shrimp in Lake Abert.

Brine shrimp cysts won't hatch if the salinity is too high, but they do prefer a freshwater film. Adult brine shrimp have a 3-month life cycle, and high reproductive rates. Questions were raised about the potential benefit of a late-season trickle flow of freshwater to kickstart a second wave of brine shrimp productivity.

A final message on the uplands was "if we don't solve the uplands then we won't have a lake to deal with anyway."

Marsh/Valley Falls Discussion

There has not been an assessment completed on the marsh yet, though it feels like a logical next step. An application for funding from OWEB for this type of assessment was unsuccessful. Further measuring and monitoring of flow is needed, and could contribute to an assessment. Group 5 also raised the need for a SNOTEL site in the basin, the potential benefit of precision agriculture practices in the marsh, as well as a MODUS tower to aid in a food web assessment of Lake Abert. Other needs included inventorying and assessing alternatives (safety net) and improving the understanding of producers.





Groundwater

Studies that assess the source of groundwater, such as the work being completed on paleo-groundwater by The Nature Conservancy. Colleen stated that similar reports have seemed helpful in the context of the Harney Basin, and could be beneficial here. There is also a system called LESA LEPA that can be applied to center pivots that can conserve up to 15% of water usage. Scott also noted that connectivity between the river and groundwater was critical, as groundwater could either supplement flow rates or detract from them depending on the gradient.

Justin stressed the importance of clarifying the amount of groundwater being used on paper (allocated rights, 9500 acres according to the JFF Shared Narrative Report) versus what is actually being extracted, and explained how the rights process works for groundwater in Oregon. It became clear that groundwater assessment is important now, whereas it was not a priority in the past. A discussion emerged around exploring ancillary benefits. Teresa clarified, and Ryan agreed, that we probably have enough information now to begin projects on the ground while still collecting more data on groundwater.

Strategies not yet on the table: Ryan shared the idea of ensuring compliance with water rights and management, in reference to River's End reservoir, as well as potentially closing the watershed to new water rights (both surface and ground). Justin said that groundwater users in another area voluntarily put a moratorium on groundwater rights (and Ryan said the same happened in Nevada). Tess thinks that producers would not have an issue with this because they haven't been developing groundwater anyway - most of their water rights are surface water rights from the late 1800s and early 1900s. Jack raised the point that agencies shouldn't apply for instream water rights if producers voluntarily moved to restrict new water rights in the basin.

Throughout the discussion, a list of questions/unknowns arose:

- What is the recharge capacity of the basin?
- Evapotranspiration and timing of water for Lake Abert?
 - Month-by-month timing, quantity, location of water for priorities (e.g., to balance brine shrimp and hay)
- Offset annually 40,000 consumptive use ET from farming
- More options for "dealing with" uplands
- Need assessment of marsh

Anything rising to the top?

Bobby presented a list of key areas that rose out of the post-lunch discussion, and Ryan suggested the schematic from LaMarche & Thomas 2023 in the JFF Shared Narrative Report could be a useful framing tool. Ryan suggested writing a letter to OWRD to ask them to stop issuing water rights - the conversation continued around how to leverage public support to pressure Oregon to respond. Jack advocated for gauges that illustrate the basin holistically, and cautioned against the utility or feasibility of gauging on every ditch and/or diversion. Marty asked a clarifying question on the three weirs: ZX uses the lower weir, and the other landowners utilize the upper two





weirs. Jack noted that gauging at the point of diversion (POD) isn't incredibly helpful without also gauging the return flows. Colleen phrased this as pursuing "strategic gauging." Tess suggested that though additional gauging might be helpful, it doesn't necessarily have an immediate benefit that should push it to the top of a priority list.

Ron stated that there had not yet been any discussion of specific strategies to mitigate for desiccation events, and suggested that water leasing or water rights could be useful strategies. He also suggested that keeping a broader system perspective could help build larger coalitions with other saline lakes groups to lobby the US Congress (e.g., region-wide bird populations; Saline Lakes Act). Further data collection on the lake is necessary, and the volunteer aspect of that collection was noted. A recent Audubon Report showed that birds are using other areas (not just hypersaline lakes). Autumn noted the need for more robust communication and storytelling- both for internal group memory, but also external facing publicity.

Next Steps and Adjourn

Bobby assigned an overnight assignment for voting members to (1) review the Charter and (2) review the JFF Shared Narrative Report, to prepare for a consensus check tomorrow.

Bobby kicked this off by talking about the decision support tool: Ron & Tammy are developing one model to understand the relationship between river, diversions, flows, which will ideally be a tool to help pin down the amount of evaporation and future dynamics of the lake. There is also the John LaMarche model which USGS may be able to build on. In any case, Bobby emphasized that this group needs to help define what questions the tool will help address, and suggested that we identify a small group of people who will get into the weeds of the tool with Ron and Tammy - this team will meet before August.

Aaron then recapped that from an online meeting poll, three ideas surfaced on how to spend \$30k from the Jubitz Foundation: a roadside kiosk & QR code storymap; a SNOTEL site & dissertation; and a list of drought options. Henry mentioned the story map and showed the first page. Hannah Steele's PhD research will explore the relationship between SNOTEL, community decision-making, and streamflow; working with OWRD - she will visit the basin in the fall to poll the group for preferences on SNOTEL location and what information should be collected. Anton expressed excitement about the SNOTEL site and asked whether OWRD would be involved to manage it long-term. [Flag for OSU team to ensure longevity of SNOTEL site and Story Map.] Aaron mentioned that he will meet with Tess to discuss next steps for the roadside kiosk.

DAY 2: Welcome

Bobby asked for any reflections on Day 1 proceedings. Ryan raised the point of timeliness as a criteria for assessing next steps, and pointed out taking action on smaller tasks that are actionable sooner can be beneficial for the overall pace of strategic action. He also pointed out that criteria for assessment can change over time.

Consensus Checks





Bobby reminded the group of the "fist-to five method," in which members raise their hand and indicate how close they are to consensus by showing a: 5- It's incredible!; 4- Fully support; 3- Support, but have concerns; 2- Support, but have serious concerns; 1- Really serious concerns, but you won't block it; Fist- It's blocked.

He then asked for a consensus check on the group Charter. Based on the voting members present, the Charter was approved with strong consensus. The OC team will follow-up with the additional voting members not at the meeting to get their consensus response as well.

Following this, he invited a preliminary consensus check on the draft JFF Shared Narrative Report to get a sense of how the group felt about the document's current status and identify any outstanding issues that might get in the way of ultimately supporting the report in its final version. There were a few 3's who expressed their outstanding concerns that were intended to be addressed in the next round of edits.

Field Tour

The group then went on a field tour with stops at Lover's Lane, Valley Falls Grange, and the Lake Abert gauge to hear a presentation from USGS about the data collection work underway there.





APPENDIX A (spreadsheet also linked here)

	Outcomes	Objectives	Indicators	Strategies	Actions
1	- Increase	- Established water	Yield by producers	- Irrigation infrastructure	- Prioritize what
	water use	budget for	- Bird use, diversity,	improvement (recognizing	systems to start with
	efficiency	Chewaucan River	abundance	benefits of current water	- LESA / LEPA on
	- Understand	- Snotel sites	- SWE	spreading)	pivots
	snow storage	coupled with	- Snow depth	- Understanding snowpack	- Upgrade headgates
	levels	geospatial analysis	- Soil moisture	and retention and runoff	on flood irrigation
	- Better	- Best use of water	- Soil temperature	changes with	- Offsite water for
	understanding	to ensure it makes	- Stream flow and volume	wildfire/climate changes in	livestock (not in canals)
	of hydrology	to bottom of	- Diversion volume	uplands	- Snotel installation
		system and	- Tributary volume	- Reach optimum lake level	- voluntary water
		maintains		and salinity	leasing
		hydrological		- understanding spring	- Water storage options
		function and		connectivity and input	- spring enhancements
		production			around the lake
					- Juniper removal
					above springs or Abert
					rim
					- Juniper / invasive
					species removal
					- Strategic replanting of
					conifers
					- Controlled burning
					- Stream restoration
					- Riparian fencing /
					offsite water
					development
					- Soil stabilization
					through seeding
					- More water to lake
					consistently to offset
					annual evaporation





2	- Resilience	- Healthy communities	- Improve ability of upper	- Reduce juniper
	- Useful data	and ecosystems in	watershed to capture	- Plant trees in strategic
	- Ability to	response to disturbance	precipitation	locations to capture
	manipulate	- Data used to manage	- Maximize the benefits of	precipitation
	salinity levels	- Prevent further water	water availability	- reestablish native
	-Ongoing	demands	- Avoid desiccation of Abert	plants and improve soil
	communicatio		- Increase habitat suitability	stability
	n		across SONEC wetlands	- Assess water storage
	collaboration			opportunities in upper
	-Don't			watershed
	exacerbate			- Assess limiting factors
	overallocation			in upper watershed that
	s			contribute to
				short-term,
				high-velocity flows
				- Develop alternatives
				- Assess infrastructure
				(map, modernize,
				modify)
				- Assess producer
				needs
				- Assess limiting factors
				in lower watershed
				- Create a shared
				understanding of flood
				timing as it relates to
				wildlife habitat, forage
				production, and overall
				resource management
				- Water leasing
				- Water rights purchase
				- Voluntary reductions
				in upstream diversions
				- Physical modification
				of lake
				- Improve waterbird
				habitat region-wide
				- Better SONEC data
				for shorebirds





3	- Sustainable	- Improved	- Tons of hay produced	- Habitat restoration	- Prescribed fire
	agriculture	irrigation	- Head of cattle sustained	- Water budget	- Wet meadow
	community	efficiencies,	- Snow pack	- Increasing irrigation	restoration
	(economically	especially center	measurement in uplands	efficiency	- Invest in uplands
	viable):	pivot (pay for	- Stream flow above	- Instream flows as	- Quantify water supply
	sustainable	installation for	Paisley	beneficial use	and demand
	over time: able	LESA/LEPA	- Lake water levels	- optimizing water delivery	- Irrigation upgrades
	to adapt to	irrigation	- Migratory bird use on	- Data collection and	- Leases/transfers of
	changes	sprinklers)	lake	monitoring	water rights
	- Sustain and /	- Analyze area that		- Communication and	- Instream water rights
	or increase	can sustain		outreach	- Better understanding
	stream flow	replanted forest		- Understand groundwater	of timing of water
	above Paisley	and prioritize that		(sources, systems,	needs
	while	work		connectivity)	- Identify key locations
	sustaining and	- Access funding			to collect data
	/ or improving	opportunities for			- Identify key metrics to
	water quality	water savings /			assess conditions
	- Lake	restoration			- Groundwater study
	elevation of	-			- Identify water users
	4250-4258 for				(messaging, trust
	as many years				building, education)
	as possible				
4	- Lake Abert	- Adequate	- Lake elevation	- Continue and expand	- Weed survey, spray,
	plays a	conditions exists	- Lake salinity	noxious weed treatment	reseed
	significant	that support	- Waterbird	- Identify priority areas for	- Site prep, cone
	consistent role	significant food	populations/species	implementation	collection, reforestation
	in supporting	production for	- Numerical abundance	- enhance manageability of	implementation
	shorebird	shore birds (algae,	of food resources	water	- Inventory current
	population	brine shrimp and	- Stable human	- Reduce erosion	irrigation network,
	viability within	alkali flies)	population	- Understand what the water	assess alternatives,
	the broader	- Communities and	- Acres of production	is doing and what is needed	design irrigation
	network of	producers have	- Maintained open space	- Develop data and	infrastructure,
	areat hasin				
	grout busin	the resources		information to inform	implement
	saline lakes	the resources needed to support		information to inform decisions (stream gauging,	implement improvements
	saline lakes - The	the resources needed to support efficient use of		information to inform decisions (stream gauging, ground water monitoring)	implement improvements - Streambank
	saline lakes - The Chewaucan	the resources needed to support efficient use of water, and ability		information to inform decisions (stream gauging, ground water monitoring) - Adhere to water rights and	implement improvements - Streambank stabilzation (riparian
	saline lakes - The Chewaucan hosts thriving	the resources needed to support efficient use of water, and ability to manipulate		information to inform decisions (stream gauging, ground water monitoring) - Adhere to water rights and best water management	implement improvements - Streambank stabilzation (riparian health)
	saline lakes - The Chewaucan hosts thriving ranching	the resources needed to support efficient use of water, and ability to manipulate water in a manner		information to inform decisions (stream gauging, ground water monitoring) - Adhere to water rights and best water management - Develop decision support	implement improvements - Streambank stabilzation (riparian health) - Replacing annual
	saline lakes - The Chewaucan hosts thriving ranching families and	the resources needed to support efficient use of water, and ability to manipulate water in a manner that supports		information to inform decisions (stream gauging, ground water monitoring) - Adhere to water rights and best water management - Develop decision support tools (hydrologic model)	implement improvements - Streambank stabilzation (riparian health) - Replacing annual grasses with natives
	saline lakes - The Chewaucan hosts thriving ranching families and surrounding	the resources needed to support efficient use of water, and ability to manipulate water in a manner that supports grass production		information to inform decisions (stream gauging, ground water monitoring) - Adhere to water rights and best water management - Develop decision support tools (hydrologic model) - Close basin to new water	implement improvements - Streambank stabilzation (riparian health) - Replacing annual grasses with natives - Stream gauging





					monitoring
					- Diversion
					measurements
					- SNOTEL
					- Hydrological model
					- Seek funding
5	- Healthier	- Potential	- Mosaic tree diversity	- Improve water use	- Infield and instream
	forest	reforestation	- Appropriate understory	efficiency	infrastructure
	- Soil	- Prescribed fire	density	- Communication and	replacement
	stabilization	and thinning	- Native bunch grass	outreach	- Media, papers,
	- Abert	- Salinity within the	re-establishment	- Ecotourism	workshops,
	supports fall	target range of X to	- Real-time measurement	- Increase capacity of	presentations,
	functional	Y to support food	of hydrology throughout	crucial positions	interpretation, boots on
	shorebird	web	the system (snow pack,	- Monitoring sites and	the ground, meetings
	habitat over	- Lake volume	discharge, diversions,	activities	for producers
	the long term	remains between X	lake volume)	- Forest health improvement	- Business plan for
	(recognizing	and Y to support	- No weeds	- Squeezing the lemon	ecotourism
	interannual	the desired salinity	- More even distribution	- Landscape scale strategic	- Higher local
	variability)	for food web	of water	planning and prioritization	individuals, conflict
	- Healthy	- Spray weeds on	- Healthy economy		resolution liaison,
	productive	the marsh			someone whose job it
	ecological	- Improve irrigation			is
	system at	structure to			- Monitoring at inlet to
	Abert	improve efficiency			Abert, Crooked Creek,
	- X tonnage of	and manageability			below UCM, narrows
	hay produced	- Maintain			- Monitoring wet years
	on the marsh	temporary			and long-term,
	at an average	seasonal wetlands			bird/forage, Motus
	of x/10 years	(N/A flood			towers, foodweb
	- X head of	irrigation)			- Thinning, prescribed
	cattle run on	- Water			fire, IAG control,
	the marsh	management			perennial/grass/shrub
	during certain	changes have			planting
	times of year	been made (water			- cloud seeding
	- Marsh	savings)			- Foodweb studies
	supports	- More water goes			- Snotel sites
	functional	downstream			- precision or smart
	habitat for	- Improved forage			agriculture (soil water
	water	production			monitoring, ET
	birds/water	- We know where			monitoring)
	fowl, riparian	water is, when,			- use geospatial maps





habitat for	and how much on		to pick landscape-level
fish, and other	a continuous basis		habitat priorities
wildlife			
- Forage			
quality is			
improved by			
improving			
water			
management			
in marsh			