

#	Goal 1:	Goal 2:	Goal 3:	Goal 4:	Tools for Resiliency	Challenges to successful implementation				
	Enough water to satisfy ag needs	Consistent and predictable water supply for ag activities	Optimize ag profit with less available water	Benefit watershed health (incl soil health and all wild critters)		Law doesn't allow	Opposition from some DB stakeholders	Don't know what will work here	Costs for ag	Other
1	X	X			Change DB water rights so NUID is not the junior user	X	X			
2	X	X			Increase annual allocation for NUID water right	X	X			
3	X	X		Leave water in river upstream	Allow seasonal transfers between IDs	Temporarily allowed	X			
4	X	X		Leave water in river upstream	Allow permanent transfers between IDs	X				
5	X			Leave water in river upstream	Put water rights lost to development in upper DB instream	X	X			
6	X		X		Allow split season and split duties in upper DB water rights w/saved water to go to NUID	X	X			
7			X		Change definition of beneficial use to allow LOs to fallow field without affecting 5-year use period	X	X			
8	X	X		Leave water in river upstream	Irrigators in upper DB become more efficient, so water could get transferred to NUID		X		XX	Requires legislative fix to transfer water; little incentive for hobby irrigators to be more efficient
9	X	X		Leave water in river upstream	IDs in upper DB become more efficient (via piping), so water could get transferred to NUID		X		XXX	Requires legislative fix to transfer water
10	X	X		Leave water in river upstream	NUID pipes canal infrastructure				XXX	\$1.3 billion to pipe all NUID canals/laterals
11	X	X		Leave water in river upstream	NUID pumps from LBC	????			XXX	Needs support from lots of funders; doesn't address Deschutes River
12	X	X		More rainfall on uplands?	Cloudseeding		X	X	X	
13	X	X, but might drop aquifers		Pull LVST away from rivers, but drop aquifers	Dig more wells for irrigation and livestock water		May or may not drop aquifer		XX	
14			X	X	Raise cash crops/livestock on part of the acreage; use rest of land for soil health/crop experiments/etc			X	X	

15			X	X	Diversify income-producing ag: (e.g. 3+ diverse crop types, grass-fed meat, organic, Malthouse, F&F CSA)			X	X	How process and market? Quickly saturate local markets.
16			Increase available soil moisture		Agrivoltaics (solar panels and farming)	?		X	X	How sell and transmit electricity? Cheapest if installed near meter
17			X	X	Transition to organic via 3 years of fallow due to drought			X	X	Weed pressure; requires labor; feasible on small acreages; saturate local market
18			X	Leave more water in river?	Convert to crops that use less water			XXX	X	Requires processing and marketing
19			X	X	Use cover crops intentionally as part of a rotation for multiple benefits			XXX	X	Crop insurance is limited to certain crops
20			X	X	Graze cover crops/stubble to recycle nutrients			X	X	How manage LVST on cropland? Weed seeds in seed crops.
21			X	X	Apply compost to irrigated cropland					Availability
22			X		Grow silage crops for livestock feed			?	Diesel to haul	Some take lots of water; limited # of animals to feed will overwhelm local market
23			X	X	Soil biostimulants			X	X	
24			Lower diesel costs	X	Less tillage					
25			X	X	Drill into crop residue			X	Equipment	
26		X	X	X	Convert to more efficient irrigation, e.g. MDI, LESA/LEPA, VFDs, subsurface drip				XX	
27			X	X	Maintain irrigation equipment (fix leaks, etc.)				X	
28			X	X	Maximize irrigation scheduling to plant needs and weather				Computers for pivots	Not enough labor to fine-tune changes
29			X	X	Adopt new technology to manage irrigation (soil moisture sensors, OpenET, NDVI, etc.)			Don't know about it	X	Learning curve

30			X	X	Soil surfactants to hold soil in place in furrows				X	
31	X	X	X	Cature sediment and reduce erosion	Build more ponds to capture water in croplands	?			X	
32			X	X	Maintain ponds: line and cleanout				X	Hard to find funders
33			X	X	Control annual weeds in croplands			Non-herbicide options?	X	
34			x	x	Control annual weeds in rangelands					
35			X	X	Juniper control		?		XXX	
36			X	X	Reseed uplands with native grasses/forbs				XX	Native seed is very expensive, costs more to rehabilitate land than the land is worth
37					Reseed uplands with non-native grasses and forbs					
38				X	Chip trees and leave chips as mulch				X	
39			X	X	Raise water table in rangeland streams; reconnect creek to floodplain (channel modification and BDAs)				X	
40			X	X	Protect and capture seeps and springs				X	
41			X	X	Capture runoff in uplands w/ponds and checkdams				X	

Opportunities						Current Implementati on Status (1- 5; 1 = no, 5 = all)	Benefit towards Vision if Implemented (1-5; 1 = none, 5 = huge)	Benefit	Gap between Benefit and Status (Col S - R)	Likelihood of Full Implementat ion (1-5, 1=none; 5=highest)	Benefit + Likelihood (Col S + V)	Priority? (Benefit + Likelihood + Gap)
Law change	Inform non- JeffCo ag stakehold ers	Info to farmers	Research on what works here	Funding	Other							
X	X					1	5	H	4	1	6	10
X	X					2	5	H	3	3	8	11
X	X					3	3	M	0	4	7	7
X						1	3	M	2	3	6	8
X	X					1	3	M	2	2	5	7
X	X					1	2	L	1	3	5	6
X	X					1	4	H	3	3	7	10
	X			X		2	2	L	0	3	5	5
	X			X		3	5	H	2	3	8	10
				XXX	Provide pressurized water	2	5	H	3	2	7	10
????				XXX		2	5	H	3	3	8	11
X	X		X	XXX		1	2	L	1	3	5	6
				XX	Only feasible in some areas	2	2	L	0	2	4	4
		X	X	X		4	4	H	0	4	8	8

		X	X	X		3	5	H	2	4	9	11
		X	X	X	Moisture retention; do on smaller acreages	1	4	H	3	4	8	11
		X	?	X	Need to market locally	2	2	L	0	2	4	4
		X	X	X		2	5	H	3	4	9	12
		X	XXX	XXX		2	4	H	2	4	8	10
		X	X			2	2	L	0	2	4	4
						3	4	H	1	4	8	9
		X		X		2	2	L	0	2	4	4
		X		X		2	4	H	2	4	8	10
		X				3	4	H	1	4	8	9
		X	X			3	4	H	1	4	8	9
		X	Crop yield info	X		4	5	H	1	4	9	10
		X		X		4	5	H	1	4	9	10
		What to use for scheduling?				4	5	H	1	5	10	11
		XXX	?	X		2	5	H	3	5	10	13

		X		X	Less need than used to be	2	2	L	0	2	4	4
				X		2	3	M	1	4	7	8
				X		3	5	H	2	5	10	12
			non-chemical means	X		3	3	M	0	3	6	6
				x		1	4	H	3	3	7	10
	X			X		3	5	H	2	3	8	10
				X		2	4	H	2	2	6	8
				X		2	3	M	1	2	5	6
				X		1	1	L	0	1	2	2
		X		X		2	5	H	3	2	7	10
				X		3	2	L	-1	4	6	5
		X		X		1	2	L	1	2	4	5

Lead Implementation Strategy?	How?	Notes	Included in a "sustainable agricultural" certification audit
NUID			
NUID		If there is more than 2+ af, it is going to get wasted. Farmers	
NUID			
NUID			
NUID			
NUID			
NUID	2023 Legislative fix in progress	Current legislation requires a drought declaration	
COID?			
NUID			
NUID			
NUID		Awaiting feasibility study and funding	
??			
LO		Potential for JCSWCD conservation project to fund part of this	
LO			X

LO/Agronomists/Economists/Market ing... JCSWCD or OSU manages a grant that hires economist contractor to perform study?	Outreach Campaign/Research/Case Studies		X
JCSWCD/Chris Tolman	Conservation Projects		X
LO		Potential for case studies, town halls, and information sharing to encourage this option	X
OSU-Extension	Outreach Campaign/Research/Case		X
NRCS/JCSWCD	Outreach Campaign (componant of Soil Health CIS)		X
LO		Potential for case studies, town halls, and information sharing to encourage this option	X
NRCS/JCSWCD	Outreach Campaign (componant of Soil Health		X
LO		Potential for case studies, town halls, and information sharing to encourage this option	
NRCS/JCSWCD	Outreach Campaign		X
NRCS/JCSWCD	Outreach Campaign (componant of Soil Health CIS)		X
NRCS/JCSWCD	Outreach Campaign (componant of Soil Health CIS)		X
NRCS/JCSWCD	Outreach Campaign (componant of Soil Health/ Agency Plains CIS)		X
OSU-Irrigation Specialist	Outreach Campaign/ consultations		X
OSU-Irrigation Specialist	Outreach Campaign/ consultations		X
JCSWCD	Outreach Campaign		X

JCSWCD PSP	Outreach Campaign/conservation		
LO			
LO; may need JCSWCD to spearhead funding request			
LO/JC-WAC			X
JC-WAC	Implement current program		
MDWC/JCSWCD-Adam	Conservation Projects		
MDWC			
MDWC??			
MDWC	Conservation Projects		
MDWC/JCSWCD CREP Program	Conservation Projects		
JCSWCD/MDWC	Conservation Projects		
JCSWCD/MDWC	Conservation Projects		