

Goal 1:	Goal 2:	Goal 3:	Goal 4:	Tools for Resiliency	Challenges to successful implementation					Opportunities		
Enough water to satisfy ag needs	Consistent and predictable water supply for ag activities	Optimize ag profit with less available water	Improve watershed health (incl soil health)		Law doesn't allow	Opposition from some DB stakeholders	Don't know what will work here	Costs for ag	Other	Law change	Inform non-ag stakeholders	Info to farmers
X	X	?		Change DB water rights so NUID is not the junior user	X	X				X	X	
X	X			Increase allocation for NUID water rights	X	X				X	X	
X	X			Allow transfers between IDs	X	X				X	X	
X				Allow water rights lost to development in upper DB go to junior user	X	X				X	X	
X	X			Other IDs and irrigators in other IDs become more efficient, so water could get transferred to NUID		X			Requires legislative fix to transfer water		X	
X		?	Leave water in river	Allow split season and split duties in DB water rights	X	X				X	X	
		X		Change definition of beneficial use to allow LOs to fallow field without affecting 5-year use period	X	X				X	X	
X	X		More water below Bend	NUID pumps from LBC	????			XXX		????		
X	X		Leave water in river	NUID pipes canal infrastructure				XXX				
X	X		More rainfall on uplands?	Cloudseeding	X	X	X	X		X	X	
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				
		X	X	Raise cash crops on part of the acreage; use rest for soil health/crop experiments/etc			X	X				X
		X	X	Stack value-added industries (e.g. run cattle on cropland and sell grass-fed meat, Malthouse, F&F CSA)			X	X	How process and market? How manage LVST on			X
		X	X	Diversify operations			X	X	How process and market?			X

		X	X	Increase profit by raising other crops/animals that have added value (e.g. organic)			X	Initial cost during transiti	How process and market?			X
		X	X	Transition to organic via 3 years of fallow due to drought			X	X				X
		X		Agrivoltaics (solar panels and farming)	?		X	X	How sell and transmit electricity?			X
		X	X	Use cover crops as part of a rotation			XXX	X				X
		X	X	Graze cover crops to recycle nutrients			X	X	How manage LVST on cropland?			X
		X	X	Compost/manure on cropland					Availability			
		X		Grow silage crops for livestock feed			?	Diesel to haul	Takes a lot of water to grow			X
		X	Leave more water in river?	Convert to crops that use less water			XXX	X	Requires processing and marketing			X
		X	X	Soil biostimulants			X	X				X
		Lower diesel costs	X	Less tillage								X
		X	X	Drill into crop residue			X	Equipm ent				X
	X	X	X	Convert to more efficient irrigation, e.g. MDI, LESA/LEPA, VFDs, subsurface drip				XX				X
		X	X	Maintain irrigation equipment (fiX leaks, etc.)				X				X
		X	X	Schedule irrigation according to plant needs and weather				Compu ters for pivots	Not enough labor to fine-tune changes			What to use for scheduling ?
		X	X	Adopt new technology to manage irrigation (soil moisture sensors, OpenET, NDVI, etc.)			Don't know about it	X	Learning curve			XXX
		X	X	Soil surfactants to hold soil in place in furrows				X				X
X	X	X	X	Build more ponds to capture water in crop and rangelands	?			X				

		X	X	Maintain ponds: line and cleanout				X	Hard to find funders			
		X	X	Control annual weeds in rangelands and croplands			Non-herbicide options?	X				
		X	X	Juniper control		?		X			X	
		X	X	Reseed uplands with native grasses/forbs				X				
			X	Chip junipers and spread as mulch				X				
		X	X	Raise water table in rangeland streams				X				X
		X	X	Reconnect creek to floodplain				X				X
		X	X	Protect seeps and springs				X				
		X	X	Capture runoff in uplands				X				X
				Restore healthy water cycle								

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Research on what works here	Funding	Other	Likelihood of Success (1-5, 1=no; 5=highest)	Who?	How?
			2	NUID	
			1	NUID	If there is more than 2+ af, it is going to get wasted. Farmers know how to farm with current allocation
			4	NUID	Get water for Jeffco Ag production that was allowed to go elsewhere
			?	NUID	How does this work in other IDs?
			2	NUID	Legislation that allows non-irrigation w/o a drought declaration; could plant native grasses instead.
			?	NUID	How does this work?
			5	NUID	2023 Legislative fix in progress Requires a drought declaration
	XXX		3	NUID	Need support from lots of funders etc.
	XXX	Provide pressurized water	3	NUID	
X	XXX		3		
	XX		2		Only feasible in some areas of Jefferson County, but the aquifers are going down.
X	X		4		A lot of that going on already
X	X		3		
X	X		3		A lot of things have been tried here.

X	X					
?	X		2			
X	X		?			
XXX	X		4			
X			2			Livestock management issue; weed seeds in seed crops
	X		2			Water use depends on the crop being raised.
X	X		2			Some of these crops already grown here (like bluegrass). New ones would requires processing and marketing
	X		2			Needs proof that they will make you a profit
			4			
X			4			
Crop yield info	X		4			
	X		4			
			5			
?	X		5			
	X		3			Less need than there used to be.
	X		4			

	X		5			
non-chemical means	X		5			
	X		5			
	X		5			
	X		3			
	X		3			Possible locally
	X		4			
	X		5			
	X		4			