Propo	sed Action Item:	Alignment with Plan Goals:					
Identif	y incentive programs to install water efficient devices.	Protect Human Welfare, Property, and Natural Resources					
Ration	nale for Proposed Action Item:						
0	1985-1997 was a dry period capped by statewide droughts	in 1992 and 1994 (1992 drought					
	emergency declaration). Negative externalities included for	rest-fires and insect problems.					
0	2001: Northeast Oregon counties received USDA declaration	ons for drought.					
0	2003: Northeast Oregon counties declared local drought en	nergencies.					
0	Drought has a negative effect on tourism, agriculture, indus	stry, wildfire and fishing.					
0	The probability that Region 7 will experience future drough	nts is high; likewise, each county in					
	Region / has described its vulnerability to drought has high (i.e., more than 10% of the population						
	or regional assets will be attected by a major drought emergency or disaster)						
0	A strong water conservation incentive program will help to	raise public consciousness and					
0	Fresh water is a finite resource and requires care. Problem	s associated with decreased water					
Ŭ	supply include: Pollution from runoff from over-irrigation	of agricultural and urban lands:					
	additional dams and reservoirs and additional water and wa	stewater treatment facilities; habitat					
	degradation from surface water withdrawals; destruction of	wetlands, which filter pollutants; and					
	increased energy needed to treat wastewater and byproduct	s from power plants.					
0	Water-efficiency measures can reduce water and sewer cos	ts by up to 30%. Significant savings in					
	energy, chemical and maintenance expenses are also possib	ble. The typical payback period is three					
	to seven years. Some general benefits of water conservation	n include energy savings (by using less					
	energy for heating, pumping, and treating water), financial	savings, less wastewater, and					
	environmental benefits including increased water availability to local streams, wetlands, and						
	natural inhabitants of both environments.						
0	Competing water needs and limited resources may hamper	tuture development efforts. Drought					
	Similarly, drought can load to insect infactations, loss of to	ne hydropower and agricultural sectors.					
Similarly, drought can lead to insect infestations, loss of topsoil through wind erosion, flas floods, fire, and reduced stream flows to support endangered fish species.							
							o The Disaster Miligation Act of 2000 requires communities to identify comprehensive acti- projects that reduce the effects of a hazard on the community [201.6(c)(3)(ii)], such as act protecting natural resources. Installing water efficient devices can significantly reduce the
	of drought by conserving the critical water resources in the	community.					
		5					
Ideas	for Implementation:						
0	Create a water-conservation committee within interested co	ounties and/or cities to develop					
	incentive programs, educational programs, and voluntary a	nd/or mandatory restrictions on water					
	use.						
0	Create short, intermediate, and long-term steps for a one-ye	ear effort to reduce water consumption.					
0	• Work with utility companies to charge higher rates for excessive water use.						
0	Distribute conservation literature along with the regular mailing of bills. Local service						
organizations can be asked to disseminate water conservation promotional information							
o investigate water pricing schemes (i.e., peak pricing and excess use charges) that discourage w							
0	Initiate a water conservation program in high-use facilities	such as schools and colleges hospitals					
	and institutions, involving a retrofit of existing plumbing fi	xtures with water saving models and					
	the dissemination of water conservation literature.						
0	Promote a campaign of household leak detection. Provide l	eak detection tips on billing cards.					

Distribute dye tablets to customers to encourage toilet leak checks. Direct meter readers to inform customers with unusually high recorded use to check for household water leaks.

- Speak to local civic organizations (Boy Scouts, volunteer fire companies, etc.) on water conservation and suggest the sale of water-saving devices as a fund-raising activity.
- Encourage the wise use and management of water during peak use summer periods by restricting lawn/garden watering to non-daylight hours.

Coordinating Organi	ization	County Wate	County Water Masters and participating cities (including Baker City,		
		and Halfway)			
Internal Partners:			External Partners:		
Relevant utility companies, county public works departments, wastewater treatment facilities		county public ter treatment	US Environmental Protection Agency's WAVE program (a non-regulatory water-efficiency partnership that encourages commercial businesses and institutions to reduce water consumption while increasing efficiency, profitability, and competitiveness)		
Timeline:			If available, estimated cost:		
<u>Short Term (0-2 years)</u> <u>Long Term (</u> 2-4 or more years)		<u>m (</u> 2-4 or more years)			
1 year					
Form Submitted by: RARE		RARE Participant			

Proposed Action Item:				Alignment with Plan Goals:			
Develo	op community drought eme	ergency plans	and policies.	Strengthen Organizational and			
				Community Capacity			
Ration	Rationale for Proposed Action Item:						
0	Competing water needs a	nd limited res	ources may hamper	future development efforts. Drought			
	has a profound effect on t	the State's eco	onomy, particularly t	he hydropower and agricultural sectors.			
	Similarly, drought can lea	ad to insect in	testations, loss of top	psoil through wind erosion, flash			
0	1000ds, fire, and reduced stream flows to support endangered fish species. 1985-1997 was a dry period canned by statewide droughts in 1992 and 1994 (1992 statewide						
	drought emergency decla	ration). Nega	tive externalities inc	luded forest-fires and insect problems.			
0	2001: Northeast Oregon of	counties recei	ved USDA declaration	ons for drought.			
0	2003: Northeast Oregon of	counties decla	red local drought em	nergencies.			
0	Drought has a negative ef	ffect on touris	m, agriculture, indus	stry, wildfire and fishing.			
0	power needs. Cove is requ	uired to produ	ice a certain amount	of power per year Should drought or			
	power outages frequently	occur, Cove	may financially strug	ggle.			
0	The probability that Regi	on 7 will expe	erience future drough	its is high; likewise, each county in			
	Region 7 has described it	s vulnerability	y to drought has high	i (i.e., more than 10% of the population			
	or regional assets will be	affected by a	major drought emerg	gency or disaster)			
0	ne Disaster Mitigation <i>P</i>	Act of 2000 re	equires communities	to identify comprehensive actions and $y [201, 6(c)(3)(ii)]$ such as actions			
	addressing emergency set	rvices. Devel	oping community dr	ought emergency plans and policies			
	will help the community	to prepare for	future drought event	ts and reduce any impact of a future			
	drought.		C C				
0	The amount of water with	nin the Grand	e Ronde Valley's aqu	uifers is unknown; should growth			
	continue, the City of La Grande would like an estimate of aquifer capacities.						
Ideas f	for Implementation:						
0	Review existing plans and	d look for imp	provement opportuni	ties			
0	Identify new and/or build	upon existing	g emergency water si	upplies			
0	Adopt orders, rules and re	r surcharge so	the purpose of impl	amenting and enforcing the provisions			
0	Adopt orders, rules and regulations for the purpose of implementing and enforcing the provisions of any Executive Orders issued pertaining to a drought emergency						
0	Impose restrictions upon	the non-essen	tial use of water incl	uding the use of water conservation			
	devices, as may be necessary.						
0	Conduct a water and land	l-use needs an	alysis for Union Cou	inty.			
0	• Seek funding to clean the City of La Grande's secondary water supply.						
Coordinating Organization: County Emergency Services / Emergency Management; Interested Citie							
Intern	al Partnors.		Fytornal Partners	•			
Water	Resources Departments Co	ounty and	Wallowa Lake Service District Baker County Cattleman's				
City G	overnments, County and C	ity Planning	Association, Relevant Irrigation Districts, OSU Extension				
Depart	ments, Public Works Depa	rtments,	Office, US Departm	nent of Agriculture			
City of	f La Grande, Baker City, H	alfway					
Timeli	ine:		If available, estimation of the second	ated cost:			

Short Term (0-2 years)	Long Term (2-4 or more years)	
1 year		
Form Submitted by:		RARE Participant

Propos	sed Action Item:			Alignment with Plan Goals:				
Condu	ct an aquifer study for the	Pine and Bake	er Valleys.	Strengthen Organizational and Community Capacity				
Ration	Rationale for Proposed Action Item:							
0	• Over-exploitation may exceed the practical sustained yield in the near future; Baker County							
	expects that they've reac	hed full capacit	ity, but would like to	o make sure.				
0	In the last 10-15 years, the City of Halfway's water supply has dropped by 50ft. The City would like to better understand its ability to sustain growth, and the amount of water in the Valley will be							
	a crucial determinant.							
0	Baker City's backup wat	ter supply is de	pendent on the valle	ey's aquifers. Currently, aquifers are				
	tapped for agricultural us	se; if Baker Ci	ty's primary water s	upply failed, aquifer supply may not be				
	adequate in accommodat	ting the City's	needs.					
0	Unknown capacities with	nin aquifers ma	ay limit future devel-	opment.				
0	declaration) Negative e	xternalities inc	vluded forest-fires ar	ad insect problems				
0	2001: Northeast Oregon	counties receiv	ved USDA declaration	ons for drought.				
0	2003: Northeast Oregon	counties decla	red local drought en	nergencies.				
0	Drought has a negative e	effect on touris	m, agriculture, indus	stry, wildfire and fishing.				
0	A better knowledge of th	ne hydrodynam	ic conditions and ch	naracteristics of the groundwater is				
	essential for the well-bei	ng of the popu	lation and the econo	omic development of the region				
0	Competing water needs a	and limited res	ources may hamper	future development efforts. Drought				
	has a profound effect on	the State's eco	onomy, particularly t	the hydropower and agricultural sectors.				
	floods fire and reduced	stream flows t	o support and anger	ad fish species				
0	Baker County has experi	enced declared	droughts the past for	our years of this decade. The extended				
Ũ	drought has resulted in s	ignificant loss	for agriculture, incre	eased fire danger and severely impacted				
	tourism with the lack of	tourism with the lack of water in the streams, lakes and reservoirs. A secondary effect of the						
	drought resulted in the W	Vingville-Poco	hontas Community	experiencing domestic well issues.				
0	The Disaster Mitigation	Act of 2000 re	quires communities	to identify comprehensive actions and				
	projects that reduce the e	effects of hazar	ds on a community	[201.6(c)(3)(ii)], such as actions				
	protecting natural resour	ces. Conduction	ng an aquifer study	will help determine the capacity of the				
	Baker and Union aquifer	is and help thes	se counties to plan lo	or the effects of a potential drought.				
Ideas f	for Implementation:							
0	Improve the understandi	ng of hydrodyi	namic conditions					
0	Estimate recharge trends	over past deca	ades to study potenti	al impacts of climate change.				
0	Evaluate the vulnerability of water supply							
0	> Characterize the groundwater quality							
Coord	inating Organization:	Baker County	Water Masters					
	_							
Internal Partners:			External Partners	:				

Baker County Planning Department, Baker County Public Works, Baker City, City of Halfway			Oregon Department of Water Resources
Timeline:			If available, estimated cost:
Short Term (0-2 years)	Long Term (2-4 or more years)		
2 or more years		ore years	
Form Submitted by: RARE Participant		RARE Participant	

Proposed Action Item:						Alignment with Plan Goals:	
Conduct an aquifer study for the Grande Ronde				Grande Ronde	e Valley.	Strengthen Organizational and	
						Community Capacity	
Ratior	Rationale for Proposed Action Item:						
0	Over-exploi	tation r	nay e	xceed the prac	tical sustained yield	in the near future;	
0	Unknown ca	apacitie	es with	nin aquifers m	ay limit future develo	opment.	
0	declaration). Negative externalities included forest-fires and insect problems.						
0	2001: Northeast Oregon counties received USDA declarations for drought.						
0	2003: Northeast Oregon counties declared local drought emergencies.						
0	Drought has	s a nega	$t_{1} = 0$	effect on touris	in, agriculture, indus	stry, wildfire and fishing.	
0	essential for	the we	ell-bei	ng of the popi	lation and the econo	mic development of the region	
0	Competing	water n	leeds a	and limited res	sources may hamper	future development efforts. Drought	
	has a profou	und effe	ect on	the State's eco	onomy, particularly t	he hydropower and agricultural sectors.	
	Similarly, d	rought	can le	ad to insect in	festations, loss of top	psoil through wind erosion, flash	
	floods, fire,	and rec	luced	stream flows	to support endangere	d fish species.	
0	The Disaste	r Mitig t raduce	ation.	Act of 2000 re	equires communities	to identify comprehensive actions and $y [201, 6(a)(2)(ii)]$ such as actions	
	projects that	atural r	esour	ces. Conducti	ng an aquifer study y	will help determine the capacity of the	
	Grande Ron	de aqui	ifer ar	nd help the cou	inty to plan for the ef	ffects of a potential drought.	
0	The City of	La Gra	nde is	s concerned ab	out aquifer capacitie	s, should growth continue. The	
	amount of w	vater w	ithin t	he Grande Ro	nde Valley is current	tly unknown.	
0	The City of	La Gra	inde's	water is suppl	lied by wells. The B	eaver Creek Watershed provides	
	secondary b	ackup,	but it	currently does	s not meet water qual	lity standards.	
Ideas	for Impleme	ntation	:				
0	Improve the	unders	standi	ng of hydrody	namic conditions		
0	Estimate rec	charge t	trends	over past dec	ades to study potentia	al impacts of climate change.	
0	• Evaluate the vulnerability of water supply						
0	Characterize	e the gr	ound	water quality			
Coord	inating Orga	nizatio	on:	Union Count	y Water Master		
T 4							
Intern	al Partners:	da			External Partners	t of Water Descurees	
	The City of La Grande Oregon Department of Water Resources						
Timeli	Timeline:				If available, estimation	ated cost:	
Short Te	erm (0-2 years)	Long T	<u>erm (</u> 2-4	4 or more years)			
		Long T	erm				
Form	Submitted by	y:	RAR	E Participant	L		