

TITLE	ARCTRACT	LINK TO LIVE DATA AND	LINK TO WEBSITE OR
TITLE	ABSTRACT	MAPS	DOWNLOADABLE DATA
			https://www.reacchpna.org/g
Data:			eoportal3/download?docUUID
REACCHPNA			=erichs%2F%7B1C5DDF31-
Biotics - Pantrap	Data: REACCHPNA		5770-411C-B653-
2011	Biotics - Pantrap 2011		<u>1F6A945C78AD%7D</u>
			https://www.reacchpna.org/g
Data:			eoportal3/download?docUUID
REACCHPNA	Data: REACCHPNA		=erichs%2F%7B1DD0D2DA-
Biotics -	Biotics - Wireworm		B011-4D21-80AD-
Wireworm 2012	2012		5E8D70448AB7%7D
			https://www.reacchpna.org/g
Data:			eoportal3/download?docUUID
REACCHPNA			<u>=erichs%2F%7B1558F2C6-</u>
Biotics - Seed	Data: REACCHPNA		67C5-42DB-89DE-
2012	Biotics - Seed 2012		BE7A26E6BEAE%7D
Data:		http://www.reacchpna.or	
REACCHPNA		g/arcgis/rest/services/REA	
Models -	Data: REACCHPNA	CCH/REACCHModels_Agr	
Agroecozones	Models - Agroecozones	oecozones 2007/MapSer	
2007	2007	ver/	
Data:		http://www.reacchpna.or	
REACCHPNA		g/arcgis/rest/services/REA	
Models -	Data: REACCHPNA	CCH/REACCHModels Agr	
Agroecozones	Models - Agroecozones	oecozones 2008/MapSer	
2008	2008	ver	
Data:		http://www.reacchpna.or	
REACCHPNA		g/arcgis/rest/services/REA	
Models -	Data: REACCHPNA	CCH/REACCHModels Agr	
Agroecozones	Models - Agroecozones	oecozones 2010/MapSer	
2010	2010	<u>ver</u>	
Data:		http://www.reacchpna.or	
REACCHPNA		g/arcgis/rest/services/REA	
Models -	Data: REACCHPNA	CCH/REACCHModels_Agr	
Agroecozones	Models - Agroecozones	oecozones_2011/MapSer	
2011	2011	<u>ver</u>	
			https://www.reacchpna.org/g
Data:			eoportal3/download?docUUID
REACCHPNA			=erichs%2F%7BDD58E2C3-
Biotics - All Sites	Data: REACCHPNA		F214-4B5D-BBE2-
2012	Biotics - All Sites 2012		22A2454649FA%7D



			https://www.reacchpna.org/g
Data:			eoportal3/download?docUUID
REACCHPNA	Data: REACCHPNA		=erichs%2F%7BA1AB89B6-
Biotics - Hessian	Biotics - Hessian Fly		6324-46AF-A7A0-
Fly 2012	2012		B049BD89B7A4%7D
Data:		http://www.reacchpna.or	
REACCHPNA		g/arcgis/rest/services/REA	
Models -	Data: REACCHPNA	CCH/REACCHModels_Cro	
Cropland Data	Models - Cropland	pland Data Layer 2010/	
Layer 2010	Data Layer 2010	MapServer/	
Data:		http://www.reacchpna.or	
REACCHPNA		g/arcgis/rest/services/REA	
Models -	Data: REACCHPNA	CCH/REACCHModels_Cro	
Cropland Data	Models - Cropland	pland Data Layer 2009/	
Layer 2009	Data Layer 2009	MapServer/	
Data:	,	http://www.reacchpna.or	
REACCHPNA		g/arcgis/rest/services/REA	
Models -	Data: REACCHPNA	CCH/REACCHModels_Cro	
Cropland Data	Models - Cropland	pland_Data_Layer_2008/	
Layer 2008	Data Layer 2008	MapServer/	
Data:		http://www.reacchpna.or	
REACCHPNA		g/arcgis/rest/services/REA	
Models -	Data: REACCHPNA	CCH/REACCHModels Cro	
Cropland Data	Models - Cropland	pland Data Layer 2007/	
Layer 2007	Data Layer 2007	MapServer/0	
Data:		http://reacchpna.org/arcg	
REACCHPNA		is/rest/services/REACCH/	
Models -	Data: REACCHPNA	REACCHModels Cropland	
Cropland Data	Models - Cropland	Data Layer 2011/MapS	
Layer 2011	Data Layer 2011	erver	
Data:			
REACCHPNA		http://www.reacchpna.or	
Models -	Data: REACCHPNA	g/arcgis/rest/services/REA	
Agroecozones -	Models - Agroecozones	CCH/REACCHModels_Agr	
All Years	- All Years	oecozones/MapServer	



	D-t DEACCURNA	'	,
	Data: REACCHPNA		
	Biotics - Suctiontrap		
	1986-2001		
	Corresponding plots		
	and associated tables		
	for the relative		
	maximum parameter		
	estimates of the		
	remaining species-		
	environment		
	combinations can be		
Data:	viewed at the data		https://www.reacchpna.org/g
REACCHPNA	links provided here.		eoportal3/download?docUUID
Biotics -	The parameter		=erichs%2F%7B9DFCDF59-
Suctiontrap 1986-	estimates and		7F0D-4AE5-B16E-
2001	diagnostics for the re		AABF1D8AE77A%7D
	This is the main file		
	that contains the data.		
	The other file Rhizoc		
	survey VT-		
	GF_Corr5_logfg_no0s		
	was an earlier version.		
	The file GF-		
	VT_JMP_timreformatt		
	ed contains the GPS		
	locations for the site in		http://reacchapp2.nkn.uidaho.
Data:	Col H and I.		edu:8080/geoportal3/downloa
REACCHPNA			d?docUUID=atran%2F%7B722
Biotics -	The other files in the		C2C05-836C-4296-902F-
Rhizoctonia	folder are graphs		6DE4F893D8FC%7D
	Rows- locations		
	where Fusarium		
	pseudograminearum		
	and F. culmorum were		
	sampled		
	Col B- location		
	description		
	Col C- Agronomic zone		
	that location falls into,		http://reacchapp2.nkn.uidaho.
	based on paper of		edu:8080/geoportal3/downloa
Data:	Douglas (cited in		d?docUUID=atran%2F%7BAEE
REACCHPNA	article)		573F9-C211-4D0D-9CE6-
Biotics - Furasium	Col D- 2 year mean of		2CAD09DCABC2%7D



		Datasets (date: 12.01	· · · · /
	crown rot score (0-10).		
	This		
Data:		http://www.reacchpna.or	
REACCHPNA		g/arcgis/rest/services/REA	
Models -		CCH/REACCHModels_Agr	
Agroecozones	REACCHPNA Models -	oecozones 2009/MapSer	
2009	Anthromes 2009	ver	
	Earthworms were		
	sampled at 40 crop		
	fields across the Inland		
	Pacific Northwest		
	(IPNW) wheat		
	production region.		
	Initial sampling in 2011		
	included 22 sites.		
	Sampling in 2012 and		https://www.reacchpna.org/g
Data:	2013 covered 40 sites		eoportal3/download?docUUID
REACCHPNA			=erichs%2F%7B5A06448B-
	across Washington,		
Biotics -	northeastern Oregon		E823-46F7-AE3E-
Earthworm 2012	and northern Idaho		<u>0F927ECF24A3%7D</u>
			http://reacchapp2.nkn.uidaho.
Data:			edu:8080/geoportal3/downloa
REACCHPNA			d?docUUID=atran%2F%7B06C
Crops - Ralston	Evaluate cropping		3FDB9-25BC-4C4D-A521-
1995-2007	system across season		7C28EE5D4653%7D
	: to document the		
	populations of pea		
	aphid (Acyrthosiphon		
	pisum) in legume crops		
	and determine the		
	temporal and spatial		
	variation in their		https://www.reacchpna.org/g
Data:	abundance. These can		eoportal3/download?docUUID
REACCHPNA	be related to		=erichs%2F%7B81384902-
Biotics -	landscape and weather		BFA3-46B1-BC89-
Sweepnet 2011	variables and also the		54A25FEEE2FC%7D



	arrival patterns as	
	•	
	measured using t	
	: to document the	
	populations of pea	
	aphid (Acyrthosiphon	
	pisum) in legume crops	
	and determine the	
	temporal and spatial	
	variation in their	
	abundance. These can	
	be related to	https://www.reacchpna.org/g
Data:	landscape and weather	eoportal3/download?docUUID
REACCHPNA	variables and also the	=erichs%2F%7B9877B3F4-
Biotics -	arrival patterns as	F98D-415C-B9F7-
Sweepnet 2012	measured using t	69CF9A5EFE4D%7D
Sweephet 2012	: to document the	09CF9A3LFE4D/67D
	populations of pea	
	aphid (Acyrthosiphon	
	pisum) in legume crops and determine the	
	temporal and spatial	
	variation in their	
	abundance. These can	hater Managahan 2 also vidah a
Date	be related to	http://reacchapp2.nkn.uidaho.
Data:	landscape and weather	edu:8080/geoportal3/downloa
REACCHPNA	variables and also the	d?docUUID=atran%2F%7B9BD
Biotics -	arrival patterns as	D85B9-8FCE-442C-B718-
Sweepnet 2013	measured using t	BF72782EF460%7D
	to document the	
	populations of pea	
	aphid (Acyrthosiphon	
	pisum) in legume crops	
	and determine the	
	temporal and spatial	. ,,
	variation in their	http://reacchapp2.nkn.uidaho.
Data:	abundance. These can	edu:8080/geoportal3/downloa
REACCHPNA	be related to	d?docUUID=atran%2F%7B643
Biotics -	landscape and weather	5C8AB-3C28-4E39-B13D-
Sweepnet 2014	variables and also the	5C3E69E3F3A4%7D



	arrival nattorns as	•	
	arrival patterns as		
	measured using the		
	*		
	to document the		
	populations of pea		
	aphid (Acyrthosiphon		
	pisum) in legume crops		
	and determine the		
	temporal and spatial		
	variation in their		
	abundance. These can		
	be related to		http://reacchapp2.nkn.uidaho.
Data:	landscape and weather		edu:8080/geoportal3/downloa
REACCHPNA	variables and also the		d?docUUID=atran%2F%7B8F9
Biotics -	arrival patterns as		B76EA-3445-4841-BE46-
Sweepnet 2010	measured using the		28292DFD2EAA%7D
Sweephet 2010	to document the		ZOZOZOT DZEAR/07 D
	populations of pea		
	aphid (Acyrthosiphon		
	1 ' ' '		
	pisum) in legume crops		
	and determine the		
	temporal and spatial		
	variation in their		
	abundance. These can		
	be related to		http://reacchapp2.nkn.uidaho.
Data:	landscape and weather		edu:8080/geoportal3/downloa
REACCHPNA	variables and also the		d?docUUID=atran%2F%7B39F
Biotics -	arrival patterns as		256BE-7B1D-4430-AD39-
Sweepnet 2009	measured using the		29E317B7317C%7D
	to document the		
	populations of pea		
	aphid (Acyrthosiphon		
	pisum) in legume crops		
	and determine the		
	temporal and spatial		
	variation in their		http://reacchapp2.nkn.uidaho.
Data:	abundance. These can		edu:8080/geoportal3/downloa
REACCHPNA	be related to		d?docUUID=atran%2F%7B416
Biotics -	landscape and weather		69AA9-B6ED-4BD9-9962-
Sweepnet 2008	variables and also the		388AD4BB244D%7D
Sweephet 2000	variables and also tile		300/10T002TT0/0/D



	arrival patterns as	-	
	arrival patterns as		
	measured using the		
	Cropping systems		
	intensification in the		
	intermediate rainfall		
	zone may allow for the		
	elimination of the		
	fallow period. This		
	study used multiple 3-		
Data	year and 4-year		hater //or a sale a sa 2 sales scielale a
Data:	rotations to evaluate		http://reacchapp2.nkn.uidaho.
REACCHPNA	the effectiveness of		edu:8080/geoportal3/downloa
Crops -	annual cropping, and		d?docUUID=atran%2F%7B61D
CROilWilke 2012-	diversifying rotations		8FBAB-37B1-4F83-9767-
2014	with o		8ADD0E7FCF0A%7D
	Research at the		
	Ralston project from		
	2012-2016 focused on		
	integration of a novel		
	cereal (winter triticale)		
	in the winter wheat-		
	fallow rotation, with		
	chemical fallow		
	management. Winter		http://reacchapp2.nkn.uidaho.
Data:	triticale and a full-		edu:8080/geoportal3/downloa
REACCHPNA	height winter wheat		d?docUUID=atran%2F%7BA3C
Crops - Ralston	were grown for their		9CB5C-F7BF-47B6-832C-
2013	biomass p		FE5780D2F5E9%7D
	Research at the		
	Ralston project from		
	2012-2016 focused on		
	integration of a novel		
	cereal (winter triticale)		
	in the winter wheat-		
	fallow rotation, with		http://reacchapp2.nkn.uidaho.
Data:	chemical fallow		edu:8080/geoportal3/downloa
REACCHPNA	management. Winter		d?docUUID=atran%2F%7BEFA
Crops - Ralston	triticale and a full-		8B4EF-D1AC-423F-8F82-
2012	height winter wheat		822CB6E041F7%7D
			3223502012177075



	were grown for their	
	biomass p	
	This long-term	
	cropping systems study	
	seeks to evaluate	
	annual and/or	
	diversified crop	
	rotations in what is	
	traditionally a winter-	
	wheat summer fallow	
	system. Located in	http://reacchapp2.nkn.uidaho.
Data:	Ritzville, Washington,	edu:8080/geoportal3/downloa
REACCHPNA	with an annual rainfall	d?docUUID=atran%2F%7B2EC
Crops - Ritzville	of 11 inches. Pre- and	3F94B-C7E4-420F-BF28-
2012	postharvest soi	AFAA35C5F43C%7D
2012	This long-term	ATAASSEST 43C/07 D
	_	
	cropping systems study seeks to evaluate	
	annual and/or	
	diversified crop	
	rotations in what is	
	traditionally a winter-	
	wheat summer fallow	
	system. Located in	http://reacchapp2.nkn.uidaho.
Data:	Ritzville, Washington,	edu:8080/geoportal3/downloa
REACCHPNA	with an annual rainfall	d?docUUID=atran%2F%7B8CE
Crops - Ritzville	of 11 inches. Pre- and	9130F-5667-49AA-AD71-
2013	postharvest soi	787BBB027657%7D
	This long-term	
	cropping systems study	
	seeks to evaluate	
	annual and/or	
	diversified crop	
	rotations in what is	
	traditionally a winter-	http://reacchapp2.nkn.uidaho.
Data:	wheat summer fallow	edu:8080/geoportal3/downloa
REACCHPNA	system. Located in	d?docUUID=atran%2F%7BDD4
Crops - Ritzville	Ritzville, Washington,	F9FCE-3F35-4434-A773-
2014	with an annual rainfall	0B09AC69E14D%7D
2014	with an annual familian	UDUJACOJE14D%/D



	of 11 inches. Pre- and	
	postharvest soi	
	postriar vest som	
	This long-term	
	cropping systems study	
	seeks to evaluate	
	annual and/or	
	diversified crop	
	rotations in what is	
	traditionally a winter-	
	wheat summer fallow	
	system. Located in	http://reacchapp2.nkn.uidaho.
Data:	Ritzville, Washington,	edu:8080/geoportal3/downloa
REACCHPNA	with an annual rainfall	d?docUUID=atran%2F%7BAF2
Crops - Ritzville	of 11 inches. Pre- and	2B3B5-226B-4FEC-A865-
2015	postharvest soi	672C70D4F9AA%7D
2013	Data: REACCHPNA	072C70D413AA707D
	Biotics - Cereal Cyst	
	Nematode 2010	
	Nematode 2010	
	Soil sample collection.	
	Two field surveys for P.	
	neglectus, P. thornei	
	and H. avenae were	
	conducted by	
Data:	collecting soil samples	https://www.reacchpna.org/g
REACCHPNA	from Washington State	eoportal3/download?docUUID
Biotics - Cereal	University Extension	<u>=erichs%2F%7BA144D87B-</u>
Cyst Nematode	Cereal Variety Trials	18AD-4057-9A7F-
2010	and from g	85A34C845A25%7D
	Data: REACCHPNA	
	Biotics - Cereal Cyst	
	Nematode 2011	
	Soil sample collection.	
Data:	Two field surveys for P.	https://www.reacchpna.org/g
REACCHPNA	neglectus, P. thornei	eoportal3/download?docUUID
Biotics - Cereal	and H. avenae were	=erichs%2F%7BA4983FB0-
Cyst Nematode	conducted by	F37C-4334-A9CC-
2011	collecting soil samples	CDBE0E8A98E1%7D



		•	,
	from Washington State		
	University Extension		
	Cereal Variety Trials		
	and from g		
	Data: REACCHPNA		
	Biotics - Root Lesion		
	Nematode 2011		
	Nematode 2011		
	Soil sample collection.		
	Two field surveys for P.		
	•		
	neglectus, P. thornei		
	and H. avenae were		
	conducted by		
Data:	collecting soil samples		https://www.reacchpna.org/g
REACCHPNA	from Washington State		eoportal3/download?docUUID
Biotics - Root	University Extension		=erichs%2F%7BEAA6D3C4-
Lesion Nematode	Cereal Variety Trials		75FD-4AD2-8921-
2011	and from g		8F4573688687%7D
	Data: REACCHPNA		
	Biotics - Root Lesion		
	Nematode 2010		
	Soil sample collection.		
	Two field surveys for P.		
	neglectus, P. thornei		
	and H. avenae were		
	conducted by		
Data:	collecting soil samples		https://www.reacchpna.org/g
REACCHPNA	from Washington State		eoportal3/download?docUUID
Biotics - Root	University Extension		=erichs%2F%7B3D71A6DF-
Lesion Nematode	Cereal Variety Trials		302F-4C5A-82AA-
2010	and from g		80D4E0C9B33B%7D
	Experimental data		
	from four experiments		
Data -	testing interactions		http://reacchapp2.nkn.uidaho.
REACCHPNA	between wheat, BYDV,		edu:8080/geoportal3/downloa
Biotics: Wheat	and aphid vectors		d?docUUID=erichs%2F%7B3EE
Interactions with	under differing levels		0A50C-29AC-4652-AD5F-
Aphids 2015	of water stress.		F21E42246E1C%7D
, .billa2 2013	or water stress.		121272270210/070



Data:		http://reacchapp2.nkn.uidaho.
REACCHPNA		edu:8080/geoportal3/downloa
Monitoring -		d?docUUID=rboylan%2F%7B6
stream		296321F-37ED-4792-9D84-
monitoring 2014	-	32D0B25CFA18%7D
	Data collected to	
	determine the unit N	
Data:	requirement (UNR) of	http://reacchapp2.nkn.uidaho.
REACCHPNA	spring canola in	edu:8080/geoportal3/downloa
Crops - Spring	Eastern WA at	d?docUUID=atran%2F%7B6BB
Canola UNR 2008-	economic optimal	73BB7-2262-4663-9D66-
2013	yields	6D9E79E60C00%7D
2013	This file shows results	<u> </u>
	of Enzyme linked	
	immunosorbent assays	
	for the presence of	
	two viruses: Pea	
	enation mosaic virus	
	and Bean leaf roll virus,	
	in pea plants sampled	http://www.ashawa2.also.vidaha
Data	from fields across the	http://reacchapp2.nkn.uidaho.
Data:	Palouse region during	edu:8080/geoportal3/downloa
REACCHPNA	the sampled years.	d?docUUID=atran%2F%7B158
Biotics - Plant	This information was	02DD7-43BF-41CF-83D9-
Elisa 2009	re	F3E05AACE408%7D
	This file shows the	
	results of polymerase	
	chain reaction	
	amplifications to	
	detect two viruses: Pea	
	enation mosaic virus	
	and Bean leaf roll virus	
	in individual trapped	
	aphids across the	http://reacchapp2.nkn.uidaho.
Data:	Palouse region over	edu:8080/geoportal3/downloa
REACCHPNA	the sampled years.	d?docUUID=atran%2F%7B36D
Biotics - Aphids	This information was	1C5B5-07A8-47DA-9231-
PCR 2010	reported t	B8BA73FF9E44%7D



	1	<u>'</u>	,
	This file shows the		
	results of polymerase		
	chain reaction		
	amplifications to		
	detect two viruses: Pea		
	enation mosaic virus		
	and Bean leaf roll virus		
	in individual trapped		
	aphids across the		http://reacchapp2.nkn.uidaho.
Data:	Palouse region over		edu:8080/geoportal3/downloa
REACCHPNA	the sampled years.		d?docUUID=atran%2F%7B898
Biotics - Aphids	This information was		51F08-D0F2-4F21-AECF-
PCR 2009	reported t		D98A4ECE42CF%7D
	Soil classification,		
	slope, elevation, area		
	latitude, longitude,		http://reacchapp2.nkn.uidaho.
Data:	normal precipitation		edu:8080/geoportal3/downloa
REACCHPNA	(PRISM), microsite		d?docUUID=atran%2F%7BA88
Crops - Tier II	topographic		34CEE-5217-4FC5-9E32-
Field Descriptions	classification		2E400B045861%7D
	soil physical		
	properties, satellite		
	data, crop data, soil		
	core measurements,		http://reacchapp2.nkn.uidaho.
Data:	soil inorganic nitrogen,		edu:8080/geoportal3/downloa
REACCHPNA	soil moisture at 12		d?docUUID=atran%2F%7B084
Crops - Wolff	instrumented field		E5DAF-2E5C-4255-B302-
Microsite Data	locations		4ECDF5E34D97%7D
TVII COSTCC Data	soil physical		120102010077070
	properties, satellite		
	data, crop data, soil		
	core measurements,		http://reacchapp2.nkn.uidaho.
Data:	soil inorganic nitrogen,		edu:8080/geoportal3/downloa
REACCHPNA	soil moisture at 12		d?docUUID=atran%2F%7B55E
Crops - OD	instrumented field		E2E53-1CE3-42F9-8EA0-
Microsite Data	locations		05DC13DB63B1%7D
Title Osite Data	soil physical		<u> </u>
	properties, satellite		
	data, crop data, soil		
	core measurements,		http://reacchapp2.nkn.uidaho.
Data:	soil inorganic nitrogen,		edu:8080/geoportal3/downloa
REACCHPNA	soil moisture at 12		d?docUUID=atran%2F%7BF30
Crops - AES	instrumented field		5F355-3428-4A97-8844-
Microsite Data	locations		E6DF208D99FA%7D
WIICHOSILE Dala	iocations		LUDFZUOD33FA%/D



	soil physical	
	properties, satellite	
	data, crop data, soil	
	core measurements,	http://reacchapp2.nkn.uidaho.
Data:	soil inorganic nitrogen,	edu:8080/geoportal3/downloa
REACCHPNA	soil moisture at 12	d?docUUID=atran%2F%7B392
Crops - Jones	instrumented field	16D55-0A80-4BCC-B1A1-
Microsite Data	locations	4E51AD6AFAF9%7D
······································	Hourly air	
Data:	temperature, wind	http://reacchapp2.nkn.uidaho.
REACCHPNA	speed relative	edu:8080/geoportal3/downloa
Crops - Wolff	humidity, solar	d?docUUID=atran%2F%7BF61
Hourly Weather	radiation and	C5029-A568-45F9-9B82-
2011-2016	precipitation	122CE58C1ED3%7D
2011-2010	Hourly air	IZZCLJOCILDJ/0/D
Data:	temperature, wind	http://reacchapp2.nkn.uidaho.
REACCHPNA		
	speed relative	edu:8080/geoportal3/downloa
Crops - OD Hourly	humidity, solar	d?docUUID=atran%2F%7B83B
Weather 2011-	radiation and	D5E29-A8AC-4A12-84E4-
2016	precipitation	3CA56E6A9F65%7D
	Hourly air	
Data:	temperature, wind	http://reacchapp2.nkn.uidaho.
REACCHPNA	speed relative	edu:8080/geoportal3/downloa
Crops - Jones	humidity, solar	d?docUUID=atran%2F%7B5A2
Hourly Weather	radiation and	27D2C-E556-4022-8AF5-
2011-2016	precipitation	<u>6E64D9D203E1%7D</u>
	Hourly air	
Data:	temperature, wind	http://reacchapp2.nkn.uidaho.
REACCHPNA	speed relative	edu:8080/geoportal3/downloa
Crops - AES	humidity, solar	d?docUUID=atran%2F%7B227
Hourly Weather	radiation and	80948-99DE-4A7E-868E-
2011-2016	precipitation	326BCFFAF66A%7D
	to document the	
	spatial and temporal	
	arrival of pea aphids	
	(Acyrthosiphon pisum)	
	into the Palouse region	
	as an aid to	
Data:	understanding pest	http://reacchapp2.nkn.uidaho.
REACCHPNA	and virus risks in	edu:8080/geoportal3/downloa
Biotics - Pea	legume crops. The data	d?docUUID=atran%2F%7B6C5
Aphid PanTraps	can be related to	83AAD-D04F-4E4B-A1D3-
2012	weather patterns and	A3E2B301C7C5%7D
2012	weather patterns and	MULZDUIC/CJ/0/D



	and a manufacture of the second	•	·
	geographic and land		
	use information t		
	to document the		
	spatial and temporal		
	arrival of pea aphids		
	(Acyrthosiphon pisum)		
	into the Palouse region		
	as an aid to		
	understanding pest		
	and virus risks in		
Data:			http://www.henne2.mlm.vidaha
	legume crops. The data		http://reacchapp2.nkn.uidaho.
REACCHPNA	can be related to		edu:8080/geoportal3/downloa
Biotics - Pea	weather patterns and		d?docUUID=atran%2F%7B467
Aphid PanTraps	geographic and land		7BC98-457E-4C2A-9CDA-
2007	use information t		4F8F97A261D9%7D
	to document the		
	spatial and temporal		
	arrival of pea aphids		
	(Acyrthosiphon pisum)		
	into the Palouse region		
	as an aid to		
	understanding pest		
	and virus risks in		
Data:	legume crops. The data		http://reacchapp2.nkn.uidaho.
REACCHPNA	can be related to		edu:8080/geoportal3/downloa
Biotics - Pea			d?docUUID=atran%2F%7B0B3
	weather patterns and		
Aphid PanTraps	geographic and land		55333-1917-43EA-B1DF-
2008	use information t		47A3982BDB7F%7D
	to document the		
	spatial and temporal		
	arrival of pea aphids		
	(Acyrthosiphon pisum)		
	into the Palouse region		
	as an aid to		
Data:	understanding pest		http://reacchapp2.nkn.uidaho.
REACCHPNA	and virus risks in		edu:8080/geoportal3/downloa
Biotics - Pea	legume crops. The data		d?docUUID=atran%2F%7B8AE
Aphid PanTraps	can be related to		90F7D-955F-41DC-96C9-
2009	weather patterns and		197D7CD109B7%7D
2003	weather patterns and		13/0/001030//0/0



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%7BE2A
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<u>downloa</u>
%7B440
<u>F-</u>



	plate mounted 20am		,
	plate, mounted 20cm		
	above the so		
	Data are weekly		
	catches of flying aphids		
	at each location during		
	each year of the study.		
	At each location, the		
	count is the total of		
	three traps that were		
	positioned along a field		http://reacchapp2.nkn.uidaho.
Data:	edge. A trap consisted		edu:8080/geoportal3/downloa
REACCHPNA	of a yellow plastic		d?docUUID=atran%2F%7BF7B
Biotics - Wheat	plate, mounted 20cm		7CF8D-E533-47B1-B5ED-
PanTraps 2011	above the so		5827B6743C30%7D
1 411114 4 2011	Data are weekly		3027807436307078
	catches of flying aphids		
	at each location during		
	each year of the study.		
	At each location, the		
	count is the total of		
	three traps that were		
	positioned along a field		http://reacchapp2.nkn.uidaho.
Data:	edge. A trap consisted		edu:8080/geoportal3/downloa
REACCHPNA	of a yellow plastic		d?docUUID=atran%2F%7B9BD
Biotics - Wheat	plate, mounted 20cm		C5F70-2ACE-4042-B669-
PanTraps 2013	above the so		E8EB4819DCF8%7D
1 difffup3 2013	Data are weekly		<u> </u>
	catches of flying aphids		
	at each location during		
	each year of the study.		
	At each location, the		
	count is the total of		
	three traps that were		
	positioned along a field		http://reacchapp2.nkn.uidaho.
Data:	edge. A trap consisted		edu:8080/geoportal3/downloa
REACCHPNA	of a yellow plastic		d?docUUID=atran%2F%7B926
Biotics - Wheat	plate, mounted 20cm		6400F-5332-43CF-AD75-
PanTraps 2012	above the so		36178E2DFAE5%7D
Laiiiiah2 2012	above the so		JUITOEZUFAEJ%/D



Data:		
REACCHPNA		http://reacchapp2.nkn.uidaho.
Biotics -		edu:8080/geoportal3/downloa
Microsatellite		d?docUUID=atran%2F%7B38A
Genotyping - Field		C0EE5-2777-4912-A833-
Samples	N/A	EEE2A9D16912%7D
Data:		http://reacchapp2.nkn.uidaho.
REACCHPNA		edu:8080/geoportal3/downloa
Biotics - Pantraps		d?docUUID=atran%2F%7B16B
and Sweepnets		BB870-FBD3-47DA-9012-
2011	N/A	47835544FBA0%7D
Data:		http://reacchapp2.nkn.uidaho.
REACCHPNA		edu:8080/geoportal3/downloa
Biotics - Pantraps		d?docUUID=atran%2F%7B048
and Sweepnets		28B32-1717-4BA9-83E2-
2012	N/A	34276D182003%7D
	The MACA dataset is a	
	spatially and	
	temporally complete,	
	high-resolution (1/24th	
	degree ~4-km) gridded	
	dataset of downscaled	
	climate projections of	
	surface meteorological	
	variables	
Data:	(temperature,	
REACCHPNA	precipitation,	http://thredds.northwestknow
Modeling: CMIP5	humidity, wind,	ledge.net:8080/thredds/reacc
MACAv2-	radiation) for the	h climate CMIP5 macav2 cat
METDATA Catalog	coterminou	alog2.html
Data:	- Cotter i i i i i i i i i i i i i i i i i i i	https://reacchpna.org/geoport
REACCHPNA		al3/download?docUUID=erich
Base:	This is a pdf of the	s%2F%7BD5299FC6-0CF1-
REACCHPNA	REACCHPNA research	46BE-ADB5-
Study Area map	study area.	0513066C7639%7D
July / II cu III up	The	<u> </u>
	gridMET/METDATA	
	dataset is a spatially	
	and temporally	
	complete, high-	
Data:	resolution (1/24th	
REACCHPNA	degree ~4-km) gridded	http://thredds.northwestknow
	degree "4-km) gridded dataset of surface	ledge.net:8080/thredds/reacc
Modeling: CMIP5		
gridMET Catalog	meteorological	h_climate_MET_catalog.html



	T	,	<u>, </u>
	variables		
	(temperature,		
	precipitation,		
	humidity, wind,		
	radiation) for the		
	coterminous United		
	States from 1		
			http://reacchapp2.nkn.uidaho.
			edu:8080/geoportal3/downloa
Data:			d?docUUID=erichs%2F%7B862
REACCHPNA Base	REACCHPNA Study		6B44B-35B3-456E-B417-
- Study Area 2012	Area from 2012		5D4EF3CFA2BA%7D
	The United States,		
	Caribbean and Pacific		
	Basin Major Land		
	Resource Areas (MLRA)		
	Geographic Database		
	serves as the		
	geospatial expression		
	of the map products		
	presented and		
Data:	described in	http://reacchpna.org/arcg	
REACCHPNA	Agricultural Handbook	is/rest/services/REACCH/	
Models - Major	296 (2006). Land	REACCHModels_Major_La	
Resource Land	resource categories	nd_Resource_Areas_2006	
Areas 2006	historically	/MapServer	
	This study used a		
	stratified random		
	sample of households		
	in Washington, Idaho,		
	and Oregon to assess		
	public perceptions of		
	climate change and		
	agriculture in the		
Data:	Pacific Northwest. The		https://reacchpna.org/geoport
REACCHPNA	stratification was		al3/download?docUUID=erich
Social Factors -	based upon whether		s%2F%7B3D7B8C4F-E79A-
General Public	the county of		4675-B074-
Survey 2013	residence is classi		CA0DE115CAB0%7D



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	All points were		
	obtained using either a		
	Trimble Juno 3B or		
	GeoXT GPS unit.		
	Location was post		
	processed and		
	differentially corrected		
	using Pathfinder		
Data:	Office. The points have		
REACCHPNA	a positional accuracy		http://reacchapp2.nkn.uidaho.
Biotics - Palouse	of 2-5m. The		edu:8080/geoportal3/downloa
Plot Location	Integrated header of		d?docUUID=atran%2F%7B542
Data - Cleve Davis	the attributes		8B38B-2B80-45A6-B214-
2015	identifies		B30BBE14F45E%7D
	Our team has installed		
	five eddy covariance		
	(EC) flux towers to		
	continuously monitor		
	fluxes of CO2, H2O,		
	and energy. at 5 sites		
Data:	in different		
REACCHPNA	agroecological zones		
Monitoring -	across the region. The		http://reacchapp2.nkn.uidaho.
REACCH Flux	towers were deployed		edu:8080/geoportal3/downloa
Tower Data -	beginning in summer,		d?docUUID=atran%2F%7BB4D
MSLK - Daily -	2011. The towers are		79BEB-1845-49F2-B71D-
2013-2015	oper		C3AAB972BEA9%7D
2013-2013	Our team has installed		CSAAD372BEA3707B
	five eddy covariance		
	· ·		
	(EC) flux towers to		
	continuously monitor		
	fluxes of CO2, H2O,		
Data	and energy. at 5 sites		
Data:	in different		
REACCHPNA	agroecological zones		1 // 1 2
Monitoring -	across the region. The		http://reacchapp2.nkn.uidaho.
REACCH Flux	towers were deployed		edu:8080/geoportal3/downloa
Tower Data -	beginning in summer,		d?docUUID=atran%2F%7BAEF
MSLK - 30min -	2011. The towers are		22750-8D2C-4CE3-9DCD-
2013-2015	oper		B3354532EC63%7D



	Our team has installed	
	five eddy covariance	
	(EC) flux towers to	
	continuously monitor	
	fluxes of CO2, H2O,	
	and energy. at 5 sites	
Data:	in different	
REACCHPNA	agroecological zones	
Monitoring -	across the region. The	http://reacchapp2.nkn.uidaho.
REACCH Flux	towers were deployed	edu:8080/geoportal3/downloa
Tower Data -	beginning in summer,	d?docUUID=atran%2F%7BE48
MMTN - Daily -	2011. The towers are	7D987-EC44-4CD7-B5FC-
2012-2015	oper	E8A0A053C2F6%7D
	Our team has installed	
	five eddy covariance	
	(EC) flux towers to	
	continuously monitor	
	fluxes of CO2, H2O,	
	and energy. at 5 sites	
Data:	in different	
REACCHPNA	agroecological zones	
Monitoring -	across the region. The	http://reacchapp2.nkn.uidaho.
REACCH Flux	towers were deployed	edu:8080/geoportal3/downloa
Tower Data -	beginning in summer,	d?docUUID=atran%2F%7B90F
MMTN - 30min -	2011. The towers are	8EBEE-1E2B-4F52-9017-
2012-2015	oper	E308D3B7C771%7D
	Our team has installed	
	five eddy covariance	
	(EC) flux towers to	
	continuously monitor	
	fluxes of CO2, H2O,	
	and energy. at 5 sites	
Data:	in different	
REACCHPNA	agroecological zones	
Monitoring -	across the region. The	http://reacchapp2.nkn.uidaho.
REACCH Flux	towers were deployed	edu:8080/geoportal3/downloa
Tower Data - LIND	beginning in summer,	d?docUUID=atran%2F%7B2B4
- Daily - 2011-	2011. The towers are	3DFAA-3BD8-47E0-92FC-
2015	oper	<u>0A074282C3BD%7D</u>



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	Our team has installed		
	five eddy covariance		
	(EC) flux towers to		
	continuously monitor		
	fluxes of CO2, H2O,		
	and energy. at 5 sites		
Data:	in different		
REACCHPNA	agroecological zones		
Monitoring -	across the region. The		http://reacchapp2.nkn.uidaho.
REACCH Flux	towers were deployed		edu:8080/geoportal3/downloa
Tower Data - LIND	beginning in summer,		d?docUUID=atran%2F%7B545
- 30min - 2011-	2011. The towers are		5B91E-3BD4-4417-9E1D-
2015	oper		D16DE4348617%7D
	Our team has installed		
	five eddy covariance		
	(EC) flux towers to		
	continuously monitor		
	fluxes of CO2, H2O,		
	and energy. at 5 sites		
Data:	in different		
REACCHPNA	agroecological zones		
Monitoring -	across the region. The		http://reacchapp2.nkn.uidaho.
REACCH Flux	towers were deployed		edu:8080/geoportal3/downloa
Tower Data -	beginning in summer,		d?docUUID=atran%2F%7BDF4
CFNT - 30min -	2011. The towers are		BEFD8-E305-4809-BD28-
2011-2015	oper		7A1867405CD0%7D
	Our team has installed		
	five eddy covariance		
	(EC) flux towers to		
	continuously monitor		
	fluxes of CO2, H2O,		
	and energy. at 5 sites		
Data:	in different		
REACCHPNA	agroecological zones		
Monitoring -	across the region. The		http://reacchapp2.nkn.uidaho.
REACCH Flux	towers were deployed		edu:8080/geoportal3/downloa
Tower Data -	beginning in summer,		d?docUUID=atran%2F%7B92C
CFCT - Daily -	2011. The towers are		A49D8-7B4C-488A-8266-
2012-2015	oper		9B9043C0B35B%7D
2012-2012	oper		<u> </u>



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	Our team has installed		
	five eddy covariance		
	(EC) flux towers to		
	continuously monitor		
	fluxes of CO2, H2O,		
	and energy. at 5 sites		
Data:	in different		
REACCHPNA	agroecological zones		
Monitoring -	across the region. The		http://reacchapp2.nkn.uidaho.
REACCH Flux	towers were deployed		edu:8080/geoportal3/downloa
Tower Data -	beginning in summer,		d?docUUID=atran%2F%7B1D9
CFNT - Daily -	2011. The towers are		52099-9E6D-4D09-8800-
2011-2015	oper		2724F9D9B44C%7D
	Our team has installed		
	five eddy covariance		
	(EC) flux towers to		
	continuously monitor		
	fluxes of CO2, H2O,		
	and energy. at 5 sites		
Data:	in different		
REACCHPNA	agroecological zones		
Monitoring -	across the region. The		http://reacchapp2.nkn.uidaho.
REACCH Flux	towers were deployed		edu:8080/geoportal3/downloa
Tower Data -	beginning in summer,		d?docUUID=atran%2F%7B5FB
CFCT - 30min -	2011. The towers are		AEC66-FCC9-48AE-ABE9-
2012-2015	oper		A88B3151F095%7D
	The images collected		
	here are images from a		
	rhizotron study		
	conducted in Pullman,		
	WA. The study looks at		
	comparing the		
	fertilizer toxicity zone		
Data:	immediately		
REACCHPNA	surrounding a band of		http://reacchapp2.nkn.uidaho.
Crops - Nitrogen	Ammonium Sulfate		edu:8080/geoportal3/downloa
Source as a Factor	fertilizer and Urea		d?docUUID=atran%2F%7BA4C
in Size of fertilizer	fertilizer. The crop		34133-499F-4115-B6F6-
Toxicity Zone	species used was a		ED46D7AD12CB%7D
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	The images collected		
	here are images from a		
	rhizotron study		
	conducted in Pullman,		
	WA. The study looks at		
	comparing the		
Data:	fertilizer toxicity zones		
REACCHPNA	and symptoms caused		
Crops - Root	by banding urea below		http://reacchapp2.nkn.uidaho.
Architecture	canola seed. Images		edu:8080/geoportal3/downloa
Modifications	were set to be		d?docUUID=atran%2F%7B6E4
Due to Urea	collected every 4 hours		7855D-E2BC-49C6-A729-
Fertilizer Banding	and at a		C72F55A724F8%7D
	Bromus tectorum		
	(downy brome) is the		
	mode wide spread		
	weed species within		
	the PNW small grain		
	production region.		
	Downy brome is a		
Data:	winter annual weed,		
REACCHPNA	requiring vernalization		http://reacchapp2.nkn.uidaho.
Biotics - REACCH	to reproduce. Climate		edu:8080/geoportal3/downloa
Bromus tectorum	change in the PNW is		d?docUUID=atran%2F%7B1FD
phenotypic data -	projected to lead to		5C8BF-68B8-4A78-BFE4-
Cook 2013	milder winters wh		A20A0DFB05DD%7D
	Lachat flow injection		
	analyzer (FIA) nitrate		
	concentrations for		
	water samples		
	collected at Cook		
	Agronomy Farm (CAF),		
Data:	Alan Lyons (AL),		
REACCHPNA	Hooper (Hoop), and 4		
Crops - Water	TierII fields:		
Nitrate	(Aes,OD,W,J). Date of		http://reacchapp2.nkn.uidaho.
Concentrations	collection covers the		edu:8080/geoportal3/downloa
for REACCH and	2013-2016 water		d?docUUID=atran%2F%7BE11
SCF projects	years. Data collected		FB889-E57D-46D7-B697-
2013-2016	for		3D7FB01409BE%7D
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	This foldon	,	<u>, </u>
	This folder contains		
	genotyping data for		
	Bromus tectorum		
	accessions collected		
	throughout the PNW		
	small grain production		
	region. Data was		
	obtained using a		
	reduced		
Data:	representation		
REACCHPNA	genotype-by-		http://reacchapp2.nkn.uidaho.
Biotics - Bromus	sequencing (GBS)		edu:8080/geoportal3/downloa
tectorum	approach to identifying		d?docUUID=atran%2F%7B687
Genotype-by-	SNP molecular		45AF0-1D55-43F5-B512-
sequencing data	markers. Th		27B9F10E3158%7D
Data:			
REACCHPNA			https://www.reacchpna.org/g
Social - 2013			eoportal3/download?docUUID
Questions From			=kpainter%2F%7BFFA2AE42-
REACCH Scientists			97DF-48B6-A88B-
Survey Results	-		D5B12586C83E%7D
Data:			
REACCHPNA			https://www.reacchpna.org/g
Social - 2012			eoportal3/download?docUUID
Questions From			=kpainter%2F%7B97AE35A3-
REACCH Scientists			ECCC-4471-9F03-
Results	_		90EA29088A21%7D
Data:			30LA23008A21707D
REACCHPNA			https://www.roosehnno.org/g
			https://www.reacchpna.org/g
Social - 2012			eoportal3/download?docUUID
Questions From			<u>=kpainter%2F%7BA6B81464-</u>
REACCH Scientists			2D4C-4876-846B-
AND Coding	-		287203E76E61%7D
Data:			
REACCHPNA			
Social - 2011			https://www.reacchpna.org/g
Questions from			eoportal3/download?docUUID
REACCH Scientist			=kpainter%2F%7B91A58F0E-
Survey AND			5D7D-4A55-936A-
Coding	-		35E4BBBB9256%7D
Data:			
REACCHPNA			https://www.reacchpna.org/g
Social - 2011			eoportal3/download?docUUID
Questions from	_		=kpainter%2F%7BB52E4FB8-
Questions nom	<u> </u>		RPUTTEET/021/07 DDJZLTI DO



REACCH Scientists		6B9D-48F7-BC08-
Survey Results		17C56AD0A489%7D
Data:		
REACCHPNA		https://www.reacchpna.org/g
Social - 2013		eoportal3/download?docUUID
Questions From		=kpainter%2F%7B04165D7B-
REACCH Scientists		A230-4073-8BC0-
AND Coding	_	3B3EC8EC3E2F%7D
7 HVD COUNTY	Climate variability and	3532002032217075
	anthropogenic climate	
	change present	
	challenges in achieving	
	sustainable agriculture.	
	One of the challenges	
Data:	in maintaining a	
REACCHPNA	healthy agroecological	https://www.reacchpna.org/g
Monitoring -	system is abundant	eoportal3/download?docUUID
Paige Farrell	topsoil and limited soil	=pagef%2F%7BFA35A779-
Thesis - Climate	erosion. In the Inland	54DE-4A54-B26A-
variability 2014	Northwestern U	C5D4CBACDF27%7D
Data:		http://reacchapp2.nkn.uidaho.
REACCHPNA		edu:8080/geoportal3/downloa
Biotics - Plant plot	Plant plot data for	d?docUUID=erichs%2F%7B61A
data - Cleve Davis	2015, created by Cleve	66215-39D7-485C-AD2F-
2015	Davis.	9C80E2FD7878%7D
	Image analysis of	
	Landsat 8 imagery was	
	completed using Exelis	
	ENVI 5.1. Imagery from	
	April 25, 2013, June 28,	
	2013, and July 14,	
Data:	2013 was used for	
REACCHPNA	classification. Each	
Biotics - 2013	image file was	http://reacchapp2.nkn.uidaho.
Landsat classified	calibrated to radiance	edu:8080/geoportal3/downloa
for land cover	and reflectance using	d?docUUID=erichs%2F%7BD0
types - Cleve	Radiometric	B04605-7BD2-4C70-8279-
Davis dissertation	Calibration an	B6E1D81A624C%7D



	T	Datasets (date: 12:03	,
	The images collected		
	here are images from a		
	rhizotron study		
	conducted in Pullman,		
	WA. The study looks at		
	how increasing urea		
Data:	fertilizer rates expands		
REACCHPNA	the zone of toxicity		
Crops - Expansion	immediately		http://reacchapp2.nkn.uidaho.
of Urea Induced	surrounding the		edu:8080/geoportal3/downloa
Toxicity Zone with	fertilizer pellets. The		d?docUUID=atran%2F%7BC2C
Increasing	rates on the control		C47F9-933C-4E7F-9B2D-
Nitrogen Rates	were 4.6 mg		BC758F15F4E4%7D
	This dataset was		
	constructed from the		
	U.S. Census of		
	Agriculture for the		
	Inland Pacific		
Data:	Northwest region in		
REACCHPNA	2007 and 2012. The		
Modeling - Farm-	dataset consists of		
level summary	farm-level summary		http://reacchapp2.nkn.uidaho.
statistics by	statistics for 16 strata		edu:8080/geoportal3/downloa
stratum for the	defined according to		d?docUUID=atran%2F%7B15E
Inland Pacific	economic criteria such		FB962-479E-47FE-848C-
Northwest	as farm size, livest		E887D10D43EB%7D
	Bromus tectorum		
	(downy brome) is the		
	mode wide spread		
	weed species within		
	the PNW small grain		
	production region.		
Data:	Downy brome is a		
REACCHPNA	winter annual weed,		
Biotics - REACCH	<u> </u>		http://reacchapp2.nkn.uidaho.
Bromus tectorum			, T
	•		
' ' '			
2014	milder winters wh		
Bromus tectorum phenotypic data - Central Ferry	requiring vernalization to reproduce. Climate change in the PNW is projected to lead to milder winters wh		http://reacchapp2.nkn.uidaho.edu:8080/geoportal3/download?docUUID=atran%2F%7B8A490839-D5F4-469F-BFCF-D50709761B2D%7D



	1	Datasets (date: 12.01	
	Bromus tectorum		
	(downy brome) is the		
	mode wide spread		
	weed species within		
	the PNW small grain		
	production region.		
Data:	Downy brome is a		
REACCHPNA	winter annual weed,		
Biotics - REACCH	requiring vernalization		http://reacchapp2.nkn.uidaho.
Bromus tectorum	to reproduce. Climate		edu:8080/geoportal3/downloa
phenotypic data -	change in the PNW is		d?docUUID=atran%2F%7B353
Central Ferry	projected to lead to		B79D7-F3ED-4717-991B-
2013	milder winters wh		565B784C66C4%7D
	Total Carbon (TC),		
	Total Nitrogen (TN),		
	and Dissolved Organic		
Data:	Carbon (DOC)		
REACCHPNA	meausured using		
Monitoring -	Shimadzu TOC		
Dissolved carbon	analyzer. Samples are		
concentrations	taken from Cook Farm,		
for Paradise	and locations within		http://reacchapp2.nkn.uidaho.
Creek and Cook	the Paradise Creek		edu:8080/geoportal3/downloa
Farm water	watershed over the		d?docUUID=atran%2F%7BB06
samples 2014-	2014-2016 water		91D58-974C-469B-847A-
2016.	years.		EC0D89C75855%7D
2010.	The calendar date		<u>ECOD83C13633701D</u>
	when cumulative GDD		
	of relevant		
	development		
	thresholds was met		
Data:	were projected from		
REACCHPNA	2031 to 2060 and		
Biotics -			
Downscaled	compared to the 1950 to 2005 historic		
			http://wooodhawa2.wlu-vidali
climate modeling	average. Projections of seed set were made		http://reacchapp2.nkn.uidaho.
of relevant			edu:8080/geoportal3/downloa
Bromus tectorum	using 14 GCCMs from a		d?docUUID=atran%2F%7B6F1
development	broader selection of		FB6AC-47D0-4B0E-A381-
thresholds	models from t		D2842F1D337E%7D
Data:			
REACCHPNA			https://www.reacchpna.org/g
Social - 2013			eoportal3/download?docUUID
Questions from	-		=kpainter%2F%7BB0DC2BA6-



REACCH Scientist Open Ended Answers		AD2D-4C15-8FBF- 594C66AB1EAA%7D
Data: REACCHPNA Social - 2012 Questions from REACCH Scientist		https://www.reacchpna.org/download?docUUID=kpainter%
Open Ended Answers	-	2F%7B1661CA12-118A-4939- BAB4-0FC42CBF1E1D%7D
Data: REACCHPNA Social - 2011 Questions from REACCH Scientist Open Ended Answers	-	https://www.reacchpna.org/g eoportal3/download?docUUID =kpainter%2F%7B491939DB- 3E22-4901-A3B9- A9AE59A0E112%7D
Data: REACCHPNA Social - 2011- 2013 Enterprise Budget Data from Longitudinal Survey Participants	_	https://reacchpna.org/geoport al3/download?docUUID=kpain ter%2F%7B8EFE832F-FEDA- 43CE-BCCC- 93715AF764F5%7D