2010 SOIL TEST RESULTS

Western Laboratories, Inc.

211 Highway 95 • P.O. Box 1020 • Parma, ID 83660 800-658-3858 • FAX 208-722-6550

http://www.westernlaboratories.com

Dealer: 0-00

Reported: 5-10-2010

Test #: 1

Grower: Glen Elzinga AlderSpring

Field ID: Downton West

Mark Olson Lab #: 5436

SV #:

AG	RICULT	URA	AL SO	IL REPO	PRT			PARTS PER MILLIO	ON-PPM
VATER	nH CaCl	nu.	SMP	SOLUBLE	LIME	9/. OM	MITDATE	AMMONIUM	PI

pH WATER	pH CaCl ₂	pH SMP BUFFER	SOLUBLE SALTS (EC)	LIME	% OM	NITRATE	AMMONIUM	PH	IOSPHORUS	
8						NO3-N (PPM)	NH4-N (PPM)	P(PPM)	P BRAY	P INDEX
7.6	7.1	0.29 0 2.45		2.45	11	11	6		100	
EVALU	ATION									
s	lightly Basic		Normal	Good	Low	Adequate	Adequate	Very Low		
POUND	S PER AC	RE								
						33	33	18		

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Dealer: 0-00

Reported: 5-10-2010

Mark Olson

Lab #: 5435

Test #: 1

Grower: Glen Elzinga AlderSpring

Field ID: Pump Arch

SV #:

AGRICULTURAL SOIL REPORT	PARTS PI

AG	RICULT	URAL SO	IL REPO	RT						
pH water	pH CaCl₂	pH SMP BUFFER	SOLUBLE SALTS (EC)	LIME	% OM	NITRATE	AMMONIUM	PI	IS	
						NO3-N (PPM)	NH4-N (PPM)	P(PPM)	P BRAY	P INDEX
8.1	7.6	4	0.78	L	2.30	16	11	19		100
EVALU	ATION									
Mo	derately Basi	c	Normal	Good	Low	Adequate	Adequate	Low		
POUND	S PER AC	RE				1 11 (19)				
						48	33	57		

Western Laboratories, Inc.

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Dealer: 0-00 Mark Olson

Reported: 5-10-2010

Test #: 1

Grower: Glen Elzinga AlderSpring Field ID: East of Corrals

SV #:

Lab #:

5434

		URAL SO				PARTS PER MILLION-PPM				
pH WATER	pH CaCl ₂	pH SMP BUFFER	SOLUBLE SALTS (EC)	LIME	% OM	NITRATE	AMMONIUM	PI	HOSPHORU	JS
						NO3-N (PPM)	NH4-N (PPM)	P(PPM)	P BRAY	P INDEX
8.0	7.5	5	0.40	L	2.70	18	11	22		100
EVALU	ATION									
Mo	derately Bas	ic	Normal	Good	Adequate	Adequate	Low			
POUND	S PER AC	RE								
						54	33	66		

2022 SOIL TEST RESULTS

Included below are scans of tests from fields around the ranch. The ranch average was 7.75 when considering area of each field and organic matter test results given here.



1290
10/14/2022
10/18/2022

Name:	GLENN ELZINGA
Company:	ALDERSPRING RANCH
Address:	7073 CUSTER RD
City, State, ZIP:	MAY, ID 83253

Grower:	GLENN ELZINGA
Field ID:	A 10 T
Sample ID 1:	EAST
Sample ID 2:	
Sample Depth:	0-6

		Nitrogen											sphorus		
1	H3/	A Extract				H20 Ext	ract			H3A Extract					
Lab #	Nitrate	Ammonium	Inorg. N	Total N	Org. N	Org. N:	Org. N Rel.	Org. N Res.	Avail. N	Total P	Inorg. P	Org. P	Org. P Rel	Org. P Res.	Avail. P
Lac #	ppm NO3-N	ppm NH4-N	ppm N	ppm N	ppm N	Inorg. N	ppm N	ppm N	Ibs/A	ppm P	ppm PO4-P	ppm P	ppm P	ppm P	Ibs/A
18890	32.3	8.6	40.9	76.7	35.8	0.88	35.8	0.0	138.1	18.9	13.9	5.0	5.0	0.0	43.4
Rank															

	0	ther Soil	Measure	s			Fertility								
1 1							H3A Extract								
Lab#	Soil pH	Buffer pH	Soluble Salt	Excess	Soil OM	Potassium	Calcium	Magnesium	Sodium	Zinc	Manganese	Iron	Copper	Aluminum	Sulfur
Lao w	1:1	Mod. WDRF	mmha/cm	Lime	% LOI	ppm K	ppm Ca	ppm Mg	ppm Na	ppm Zn	ppm Mn	ppm Fe	ppm Cu	ppm Al	ppm S
18890	7.9	-	0.49	NONE	6.3	148	1693	362	45	0.19	1.9	13	0.12	108	20.36
Rank															



Name:	GLENN ELZINGA
Company:	ALDERSPRING RANCH
Address:	7073 CUSTER RD
City, State, ZIP:	MAY, ID 83253

Grower:	GLENN ELZINGA
Field ID:	A10T
Sample ID 1:	WEST
Sample ID 2:	
iample Depth:	0-6

					Pho	sphorus									
	H3A Extract H2O Extract											H3	A Extract		
Lab#	Nitrate	Ammonium	Inorg. N	Total N	tal N Org. N Org. N: Org. N Rel. Org. N Res.					Total P	Inorg. P	Org. P	Org. P Rel	Org. P Res.	Avail. P
Lau #	ppm NO3-N	ppm NH4-N	ppm N	ppm N	ppm N	Inorg. N	ppm N	ppm N	Ibs/A	ppm P	ppm PO4-P	ppm P	ppm P	ppm P	Ibs/A
18891	14.7	6.9	21.6	57.3	57.3 35.7 1.65 35.7 0.0					37.6	32.2	5.4	5.4	0.0	86.4
Rank															

	O	ther Soil	Measure		Fertility											
1 1							H3A Extract									
Lab#	Soil pH	Buffer pH	Soluble Salt	Excess	Soil OM	Potassium	Calcium	Magnesium	Sodium	Zinc	Manganese	Iron	Copper	Aluminum	Sulfur	
Lau w	1:1	Mod. WDRF	mmha/cm	Lime	% LOI	ppm K	ppm Ca	ppm Mg	ppm Na	ppm Zn	ppm Mn	ppm Fe	ppm Cu	ppm Al	ppm S	
18891	7.9	-	0.42	NONE	5.7	151	1110	337	49	0.17	2.3	16	0.10	164	14.42	
Rank																

				Nitr	ogen Co	ompari	son	Reviewer Comments			
		н	20 Extract				Traditional	Haney	Differ.	Savings	
Lab #	Soil Resp.	Org. C	MAC	C:N	SHC	Cover Crop	N	N	N	N	
Lau II	ppm CO2-C	ppm C	%	C.N	SM.	Suggestion	lbs/A	lbs/A	Ibs/A	5/A	
18891	417.5	451	92.6	12.62	35.78	20% Legume 80% Grass	26.5	103.1	76.7	79.73	
Rank											



Name:	GLENN ELZINGA
Company:	ALDERSPRING RANCH
Address:	7073 CUSTER RD
City, State, ZIP:	MAY, ID 83253

Grower:	GLENN ELZINGA
Field ID:	A 6 T
Sample ID 1:	
Sample ID 2:	
Sample Depth:	0-6

	Nitrogen											Pho	sphorus		
I	H3A Extract H2O Extract									H3A Extract					
Lab#	Nitrate Ammonium Inorg. N Total N Org. N Org. N:					Org. N:	Org. N Rel.	Org. N Res.	Avail. N	Total P	Inorg. P	Org. P	Org. P Rel	Org. P Res.	Avail. P
Lau #	ppm NO3-N ppm NH4-N ppm N ppm N					Inorg. N	ppm N	ppm N	Ibs/A	ppm P	ppm PO4-P	ppm P	ppm P	ppm P	Ibs/A
18892	14.3	4.7	19.0	56.4	37.4	1.97	37.4	0.0	101.4	23.4	17.6	5.8	5.8	0.0	53.8
Rank															

	0	ther Soil	Measure			Fertility										
1							H3A Extract									
Lab #	Soil pH	Buffer pH	Soluble Salt	Excess	Soil OM	Potassium	Calcium	Magnesium	Sodium	Zinc	Manganese	Iron	Copper	Aluminum	Sulfur	
Lau w	1:1	Mod. WDRF	mmha/cm	Lime	% LOI	ppm K	ppm Ca	ppm Mg	ppm Na	ppm Zn	ppm Mn	ppm Fe	ppm Cu	ppm Al	ppm S	
18892	7.9	-	0.40	NONE	6.3	217	1400	329	46	0.20	1.7	15	0.10	115	15.51	
Rank																

		Soil Health							ompari	son	Reviewer Comments
1		н	20 Extract				Traditional	Haney	Differ.	Savings	
Lab (Soil Resp.	Org. C	MAC	C:N	SHC	Cover Crop	N N	N	N	N	
Lau	ppm CO2-C	ppm C	%	C.N	Sev.	Suggestion	lbs/A	lbs/A	lbs/A	5/A	
18892	443.7	463	95.8	12.39	37.65	20% Legume 80% Grass	25.7	101.4	75.7	78.71	
Rank											



Name:	GLENN ELZINGA
Company:	ALDERSPRING RANCH
Address:	7073 CUSTER RD
City, State, ZIP:	MAY, ID 83253

Grower:	GLENN ELZINGA
Field ID:	AWL
Sample ID 1:	
Sample ID 2:	
Sample Depth:	0-6

	Nitrogen H3A Extract H2O Extract											Pho	sphorus		
	H3/				H3	A Extract									
Lab#	Nitrate	Ammonium	Inorg. N	Total N	IN Org. N Org. N: Org. N Rel. Org. N Res.					Total P	Inorg. P	Org. P	Org. P Rel	Org. P Res.	Avail. P
Lao #	ppm NO3-N	ppm NH4-N	ppm N	ppm N	ppm N	Inorg. N	ppm N	ppm N	Ibs/A	ppm P	ppm PO4-P	ppm P	ppm P	ppm P	Ibs/A
18893	14.3	5.6	19.9	57.3	7.3 37.4 1.88 37.4 0.0					18.3	14.6	3.7	3.7	0.0	42.0
Rank															

	O	ther Soil		Fertility											
1										H3A E	xtract				
Lab #	Soil pH	Buffer pH	Soluble Salt	Excess	Soil OM	Potassium	Calcium	Magnesium	Sodium	Zinc	Manganese	Iron	Copper	Aluminum	Sulfur
rao m	1:1	Mod. WDRF	mmha/cm	Lime	% LOI	ppm K	ppm Ca	ppm Mg	ppm Na	ppm Zn	ppm Mn	ppm Fe	ppm Cu	ppm Ai	ppm S
18893	7.9	-	0.29	NONE	7.2	123	1661	307	37	0.13	2.5	16	0.07	128	12.59
Rank															

	Soil Health							ogen Co	ompari	son	Reviewer Comments
1		н	20 Extract				Traditional	Haney	Differ.	Savings	
Lab #	Soil Resp.	Org. C	MAC	C:N	SHC	Cover Crop	N	N	N	N	
Lag W	ppm CO2-C	ppm C	%	CN	SMC	Suggestion	lbs/A	lbs/A	lbs/A	S/A	
18893	430.3	419	102.8	11.19	36.01	20% Legume 80% Grass	25.7	103.1	77.3	80.41	
Rank											



Name:	GLENN ELZINGA
Company:	ALDERSPRING RANCH
Address:	7073 CUSTER RD
City, State, ZIP:	MAY, ID 83253

Grower:	GLENN ELZINGA
Field ID:	A 3 T 10
Sample ID 1:	
Sample ID 2:	
Sample Depth:	0-6

	Nitrogen											Pho	sphorus			
1	H3/	A Extract			H2O Extract						H3A Extract					
Lab#	Nitrate	Ammonium	Inorg. N	Total N	Org. N	Org. N:	Org. N Rel.	Org. N Res.	Avail. N	Total P	Inorg. P	Org. P	Org. P Rel	Org. P Res.	Avail. P	
Lau #	ppm NO3-N	ppm NH4-N	ppm N	ppm N	ppm N	Inorg. N	ppm N	ppm N	Ibs/A	ppm P	ppm PO4-P	ppm P	ppm P	ppm P	Ibs/A	
18894	40.8	7.5	48.3	81.0	32.7	0.68	32.7	0.0	145.7	25.7	20.3	5.4	5.4	0.0	59.2	
Rank																

	01	ther Soil	Measure	S		Fertility									
ı						H3A Extract									
Lab#	Soil pH	Buffer pH	Soluble Salt	Excess	Soil OM	Potassium	Calcium	Magnesium	Sodium	Zinc	Manganese	Iron	Copper	Aluminum	Sulfur
rao n	1:1	Mod. WDRF	mmha/cm	Lime	% LOI	ppm K	ppm Ca	ppm Mg	ppm Na	ppm Zn	ppm Mn	ppm Fe	ppm Cu	ppm Al	ppm S
18894	7.9	-	0.48	NONE	7.5	234	1923	371	33	0.09	2.7	15	0.09	61	23.64
Bank															

	Soil Health							ogen C	ompari	son	Reviewer Comments
1		н	20 Extract				Traditional	Haney	Differ.	Savings	
Lab #	Soil Resp.	Org. C	MAC	C:N	SHC	Cover Crop	N N	N	N	N	
Lao w	ppm CO2-C	ppm C	%	CH	SPIC.	Suggestion	lbs/A	Ibs/A	lbs/A	S/A	
18894	578.6	507	114.0	15.54	42.34	10% Legume 90% Grass	73.4	145.7	72.3	75.16	
Rank											



Account No.:	1290
Invoice No.:	
Date Recd:	10/14/2022
Date Repd:	10/18/2022

Name:	GLENN ELZINGA
Company:	ALDERSPRING RANCH
Address:	7073 CUSTER RD
ity, State, ZIP:	MAY, ID 83253

Grower:	GLENN ELZINGA
Field ID:	A 11
Sample ID 1:	EAST
Sample ID 2:	
Sample Depth:	0-6

	Nitrogen										Phosphorus							
1	H3A Extract H2O Extract									H3A Extract								
Lab#	Nitrate	Ammonium	Inorg. N	Total N	Org. N	Org. N:	Org. N Rel.	Org. N Res.	Avail. N	Total P	Inorg. P	Org. P	Org. P Rel	Org. P Res.	Avail. P			
Lau #	ppm NO3-N	ppm NH4-N	ppm N	ppm N	ppm N	Inorg. N	ppm N	ppm N	Ibs/A	ppm P	ppm PO4-P	ppm P	ppm P	ppm P	Ibs/A			
18895	17.3	5.2	22.5	69.6	47.0	2.09	47.0	0.0	125.2	50.7	44.9	5.8	5.8	0.0	116.5			
Rank																		

	0	ther Soil	Measure	S			Fertility										
1							H3A Extract										
Lab#	Soil pH	Buffer pH	Soluble Salt	Excess	Soil OM	Potassium	Calcium	Magnesium	Sodium	Zinc	Manganese	Iron	Copper	Aluminum	Sulfur		
Lau w	1:1	Mod. WDRF	mmha/cm	Lime	% LOI	ppm K	ppm Ca	ppm Mg	ppm Na	ppm Zn	ppm Mn	ppm Fe	ppm Cu	ppm Al	ppm S		
18895	7.9	-	0.40	NONE	7.2	257	1444	329	41	0.21	2.3	14	80.0	101	15.93		
Rank																	

	Soil Health							ogen Co	ompari	son	Reviewer Comments
1		н	20 Extract				Traditional	Haney	Differ.	Savings	
Lab #	Soil Resp.	Org. C	MAC	C:N	SHC	Cover Crop	N N	N	N	N	
Lau II	ppm CO2-C	ppm C	%	S. N	sec	Suggestion	lbs/A	lbs/A	lbs/A	5/A	
18895	728.2	571	127.6	12.14	52.53	20% Legume 80% Grass	31.1	125.2	94.1	97.86	
Rank											



count No.:	1290
waice Na.:	
Date Recd:	10/14/2022
Date Repd:	10/18/2022

_		
Name:	GLENN ELZINGA	
Company:	ALDERSPRING RANCH	
Address:	7073 CUSTER RD	
ity, State, ZIP:	MAY, ID 83253	

_	
Grower:	GLENN ELZINGA
Field ID:	A 11
Sample ID 1:	WEST
Sample ID 2:	
Sample Depth:	0-6

				Nit	rogen							Pho	sphorus		
1 1	H3/	A Extract				H2O Ext	ract					H3	A Extract		
Lab#	Nitrate	Ammonium	Inorg. N	Total N	Org. N	Org. N:	Org. N Rel.	Org. N Res.	Avail. N	Total P	Inorg. P	Org. P	Org. P Rel	Org. P Res.	Avail. P
Lau #	ppm NO3-N	ppm NH4-N	ppm N	ppm N	ppm N	Inorg. N	ppm N	ppm N	Ibs/A	ppm P	ppm PO4-P	ppm P	ppm P	ppm P	Ibs/A
18896	10.9	4.4	15.3	59.3	44.0	2.87	44.0	0.0	106.8	26.3	21.2	5.1	5.1	0.0	60.6
Rank															

	0	ther Soil	Measure	s						Fert	ility				
1 1										H3A E	xtract				
Lab#	Soil pH	Buffer pH	Soluble Salt	Excess	Soil OM	Potassium	Calcium	Magnesium	Sodium	Zinc	Manganese	Iron	Copper	Aluminum	Sulfur
	1:1	Mod. WDRF	mmha/cm	Lime	% LOI	ppm K	ppm Ca	ppm Mg	ppm Na	ppm Zn	ppm Mn	ppm Fe	ppm Cu	ppm Al	ppm S
18896	7.9	-	0.32	NONE	6.8	183	1437	338	39	0.18	1.7	17	0.11	145	14.44
Rank															

			Soil H	ealth			Nitr	ogen Co	ompari	son	Reviewer Comments
1		н	20 Extract				Traditional	Haney	Differ.	Savings	
Lab #	Soil Resp.	Org. C	MAC	C:N	SHC	Cover Crop	N	N	N	N	
Lau II	ppm CO2-C	ppm C	%	S.H	sec	Suggestion	lbs/A	lbs/A	lbs/A	5/A	
18896	532.0	520	102.2	11.83	41.41	20% Legume 80% Grass	19.6	106.8	87.2	90.67	
Rank											



Name:	GLENN ELZINGA
Company:	ALDERSPRING RANCH
Address:	7073 CUSTER RD
City, State, ZIP:	MAY, ID 83253

Grower:	GLENN ELZINGA
Field ID:	A 10 T JACK
Sample ID 1:	
Sample ID 2:	
Sample Depth:	0-6

				Nit	rogen							Pho	sphorus		
1 1	H3/	A Extract				H20 Ext	ract					H3	A Extract		
Lab #	Nitrate	Ammonium	Inorg. N	Total N	Org. N	Org. N:	Org. N Rel.	Org. N Res.	Avail. N	Total P	Inorg. P	Org. P	Org. P Rel	Org. P Res.	Avail. P
Lao w	ppm NO3-N	ppm NH4-N	ppm N	ppm N	ppm N	Inorg. N	ppm N	ppm N	Ibs/A	ppm P	ppm PO4-P	ppm P	ppm P	ppm P	lbs/A
18897	8.2	4.5	12.7	57.3	44.6	3.53	44.6	0.0	103.1	24.2	19.4	4.8	4.8	0.0	55.6
Rank															

	0	ther Soil	Measure	s						Fert	ility				
1 1										H3A E	xtract				
Lab #	Soil pH	Buffer pH	Soluble Salt	Excess	Soil OM	Potassium	Calcium	Magnesium	Sodium	Zinc	Manganese	Iron	Copper	Aluminum	Sulfur
Lac w	1:1	Mod. WDRF	mmha/cm	Lime	% LOI	ppm K	ppm Ca	ppm Mg	ppm Na	ppm Zn	ppm Mn	ppm Fe	ppm Cu	ppm Al	ppm S
18897	7.9		0.63	NONE	17.7	212	2102	477	62	0.15	3.2	25	0.10	30	136.92
Rank															

			Soil H	ealth			Nitr	ogen C	ompari	son	Reviewer Comments
I		н	20 Extract				Traditional	Haney	Differ.	Savings	
Lab#	Soil Resp.	Org. C	MAC	C:N	SHC	Cover Crop	N N	N	N	N	
Lac w	ppm CD2-C	ppm C	%	CN	SINC	Suggestion	lbs/A	Ibu/A	Ibs/A	S/A	
18897	838.8	604	138.8	13.53	58.49	20% Legume 80% Grass	14.7	103.1	88.5	91.99	
Rank											



	_
1290	
10/14/2022	1
10/18/2022	1
	1290 10/14/2022 10/18/2022

Name:	GLENN ELZINGA
Company:	ALDERSPRING RANCH
Address:	7073 CUSTER RD
City, State, ZIP:	MAY, ID 83253

Grower:	GLENN ELZINGA
Field ID:	A7T
Sample ID 1:	
Sample ID 2:	
ample Depth:	0-6

HANEY SOIL HEALTH ANALYSIS

	Nitrogen									Phosphorus						
1 1	H3/	H3A Extract H2O Extract								H3A Extract						
Lab#	Nitrate	Ammonium	Inorg. N	Total N	Org. N	Org. N:	Org. N Rel.	Org. N Res.	Avail. N	Total P	Inorg. P	Org. P	Org. P Rel	Org. P Res.	Avail. P	
Lau #	ppm NO3-N	ppm NH4-N	ppm N	ppm N	ppm N	Inorg. N	ppm N	ppm N	Ibs/A	ppm P	ppm PO4-P	ppm P	ppm P	ppm P	Ibs/A	
18898	8.6	2.9	11.6	46.8	35.2	3.05	35.2	0.0	84.2	31.0	26.8	4.2	4.2	0.0	71.3	
Brook																

	Other Soil Measures						Fertility									
1		H3A Extract														
Lab#	Soil pH	Buffer pH	Soluble Salt	Excess	Soil OM	Potassium	Calcium	Magnesium	Sodium	Zinc	Manganese	Iron	Copper	Aluminum	Sulfur	
Lao w	1:1	Mod. WDRF	mmha/cm	Lime	% LOI	ppm K	ppm Ca	ppm Mg	ppm Na	ppm Zn	ppm Mn	ppm Fe	ppm Cu	ppm Al	ppm S	
18898	7.9		0.32	NONE	5.1	74	1203	324	48	0.29	2.2	21	80.0	190	15.39	
Rank																

2019'S RESULTS NOT INCLUDED AS THOSE NUMBERS WERE NOT USED IN CARBON SEQUESTRATION CALCULATIONS.