



Key to data headings for Vegetation data from Rio Grande Basin Initiative Leasburg Canal System 2002-2006

The following data sets are the complete databases of canal and soil characteristics and vegetation sampled from 252 sites along the Leasburg system of the Elephant Butte Irrigation District between 2002 and 2006 during the peak of the irrigation season (**Jill Schroeder** (jischroe@nmsu.edu), **Leigh Murray** (lmurray@nmsu.edu), **April Ulery** (aulery@nmsu.edu), **Cheryl Fiore** (cfiore@nmsu.edu), **Hien Nguyen**, **Xiaoli Liu**. 2010. **Identification and Detection of Problem and Noxious Weeds on Irrigation Canals will Lead to Effective Weed Management Programs and Increase Water for Irrigation: Survey of the Vegetation and Soils of the Leasburg Canal System 2002-2006.**).

Key to data headings

Vegetation data

Sample is the sample site number that corresponds to the number and GPS coordinates in *Soil Lat Long data*

- Q = quadrat 1 of 3 quadrats per sample site.
- 1-3 = quadrat number (first number after the Q)
- 1-5 = species number (5 species/quadrat identified)
- s = species identification Bayer Code in Appendix C of Report
- p = percent of species groundcover
- TVP = Total percent vegetation groundcover

Example:

- Q1TVP = Quadrat 1 percent groundcover of species 1
- Q11s = Quadrat 1 species 1
- Q11p = Quadrat 1 percent groundcover of species 2
- Q12s = Quadrat 1 species 2
- Q12p = Quadrat 1 percent groundcover of species 2
- Q13s = Quadrat 1 species 3
- Q13p = Quadrat 1 percent groundcover of species 3
- Q14s = Quadrat 1 species 4
- Q14p = Quadrat 1 percent groundcover of species 4
- Q15s = Quadrat 1 species 5
- Q15p = Quadrat 1 percent groundcover of species 5

Some of the sampling site data were deleted for the original statistical analyses which are summarized in *AES Report*. The sites and reasons for deletion for the original statistical analyses are listed as follows:

1. Deleted 5 samples sites (sample numbers 76, 87, 90, 91, 214) where
 - a. No vegetation was present
 - b. Vegetation was dead
 - c. Vegetation was mowed
 - d. Other or pecan
2. A further 11 sampled locations were deleted because soil analyses contained unreasonable or suspicious values (sample numbers 104, 107, 112, 123, 126, 170, 174, 181, 260, 281, 283)

A few of the data characteristics could not be obtained due to conditions at the time of sampling.

Usable files can be obtained by contacting one of the authors and by making appropriate reference to the source of the information.



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Key to vegetation codes

VEGETATION CODE	Scientific Name	Common Name
ALYAL	<i>Alyssum alyssoides</i>	yellow alyssum
AMAPA	<i>Amaranthus palmeri</i>	Palmer amaranth
ANNBR	Annual broadleaf	unidentified species
ANVCR	<i>Anoda cristata</i>	spurred anoda
ASCSY	<i>Asclepias syriaca</i>	common milkweed
ASTSP	Asteraceae	unidentified species
ASTSN	<i>Aster spinosus</i>	spiny aster
BACGL	<i>Baccharis glutinosa</i>	speepwillow
BRASP	Brassicaceae	unidentified species
BROCA	<i>Bromus catharticus</i>	rescuegrass
BROSP	<i>Bromus</i> spp.	unidentified species
BROTE	<i>Bromus tectorum</i>	downy brome
CCHIN	<i>Cenchrus pauciflorus</i>	field sandbur
CHEAL	<i>Chenopodium album</i>	common lambsquarters
CHRVI	<i>Chloris virgata</i>	feather fingergrass
CONAR	<i>Convolvulus arvensis</i> *	field bindweed
ERICA	<i>Conyza canadensis</i>	horseweed
CYNDA	<i>Cynodon dactylon</i>	bermudagrass
CYPES	<i>Cyperus esculentus</i>	yellow nutsedge
CYPRO	<i>Cyperus rotundus</i>	purple nutsedge
DIGSA	<i>Digitaria sanguinalis</i>	large crabgrass
DISSP	<i>Distichlis spicata</i>	saltgrass
ECHCG	<i>Echinochloa crus-galli</i>	barnyardgrass
ECHCO	<i>Echinochloa colona</i>	junglerice
ECHSP	<i>Echinochloa</i> spp.	unidentified species
EPHSP	<i>Euphorbia</i> spp.*	spurges
EQUHY	<i>Equisetum hyemale</i>	horsetail/scouringrush
ERBGR	<i>Eriochloa gracilis</i>	southwestern cupgrass
FABSP	<i>Fabaceae</i> spp.	pea family
GAAPA	<i>Gaura parviflora</i>	smallflower gaura
HELCI	<i>Helianthus ciliaris</i>	Texas blueweed
HOFDE	<i>Hoffmanseggia glauca</i>	hogpotato
HORJU	<i>Hordeum jubatum</i>	foxtail barley
IPOHE	<i>Ipomoea hederacea</i>	ivyleaf morningglory
PHBPU	<i>Ipomoea purpurea</i>	tall morningglory
JUNSP	<i>Juncus</i> spp.	rush
KCHSC	<i>Kochia scoparia</i>	kochia
LEEOR	<i>Leersia oryzoides</i>	rice cutgrass
LEFFI	<i>Leptochloa filiformis</i>	red sprangletop



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LEFSP	<i>Leptochloa</i> spp.	sprangletop
LEFUN	<i>Leptochloa uninervia</i>	Mexican sprangletop
LYGJU	<i>Lygodesmia juncea</i>	Skeletonweed
MACCA	<i>Machaeranthera canescens</i>	purple aster
MALNE	<i>Malva neglecta</i>	common mallow
MEDSA	<i>Medicago sativa</i>	alfalfa
MIXED	Mixed	unidentified species
MUHAS	<i>Muhlenbergia asperifolia</i>	scratchgrass
OENBE	<i>Oenothera berlanderi</i>	Mexican eveningprimrose
PANDI	<i>Panicum dichotomiflorum</i>	fall panicum
PASDI	<i>Paspalum dilatatum</i>	dallisgrass
PHAMI	<i>Phalaris minor</i>	littleseed canarygrass
PHYNO	<i>Phyla nodiflora</i>	matchhead
PLALA	<i>Plantago lanceolata</i>	buckhorn plantain
PLAMA	<i>Plantago major</i>	broadleaf plantain
PLASP	<i>Plantago</i> spp.	plantain spp
POASP	Poaceae	grass species
POLMO	<i>Polypogon monspeliensis</i>	rabbitfoot polypogon
POROL	<i>Portulaca oleracea</i>	common purslane
RUMCR	<i>Rumex crispus</i>	curly dock
SAZCY	<i>Sarcostemma cyanchoides</i>	climbing milkweed
SASKR	<i>Salsola iberica</i>	Russian thistle
SETLU	<i>Setaria lutescens</i>	yellow foxtail
SETVU	<i>Setaria verticillata</i>	bristly foxtail
SIDHE	<i>Sida hederacea</i>	alkali sida
SSYIR	<i>Sisymbrium irio</i>	London rocket
SOLEL	<i>Solanum elaeagnifolium</i>	silverleaf nightshade
SONOL	<i>Sonchus oleraceus</i>	annual sowthistle
SORHA	<i>Sorghum halepense</i>	Johnsongrass
SPHCO	<i>Sphaeralcea coccinea</i>	scarlet globemallow
TAROF	<i>Taraxacum officinale</i>	common dandelion
TRBTE	<i>Tribulus terrestris</i>	puncturevine
TRFRE	<i>Trifolium repens</i> L.	clover
TRTPO	<i>Trianthema portulacastrum</i>	horse purslane
TYHSP	<i>Typha</i> spp.	cattail
ULMPU	<i>Ulmus pumila</i> *	Siberian elm
VESTH	<i>Verbascum thapsus</i>	common mullein

VEG data from Rio Grande Basin Initiative Survey of Leasburg Canal System 2002-2006

sample	Q11VP	Q11S	Q11P	Q12S	Q12P	Q13S	Q13P	Q14S	Q14P	Q15S	Q15P	Q21VP	Q21S	Q21P	Q22S	Q22P	Q23S	Q23P	Q24S	Q24P	Q25S	Q25P	Q31VP	Q31S	Q31P	Q32S	Q32P	Q33S	Q33P	Q34S	Q34P	Q35S	Q35P
46	40	EQUHY	40	.	.	.	.	.	.	.	.	60	EQUHY	55	RUMCR	5	.	.	.	.	.	.	55	EQUHY	55	.	.	.	.	.	.	.	.
47	30	EQUHY	5	CYPES	25	.	.	.	.	.	.	25	EQUHY	5	CYPES	15	MIXED	5	.	.	.	.	35	EQUHY	5	CYPES	5	LEEOR	20	PLAMA	5	.	.
48	50	RUMCR	20	CYPES	10	CYPRO	20	.	.	.	.	50	CYPES	20	CYPRO	30	.	.	.	.	.	.	50	RUMCR	10	CYPES	10	CYPRO	10	ECHCG	5	MIXED	15
49	30	CYPRO	20	RUMCR	5	MIXED	5	.	.	.	.	15	CYPRO	10	MIXED	5	.	.	.	.	.	.	20	CYPRO	10	MIXED	10	.	.	.	.	.	.
50	75	JUNSP	10	EQUHY	10	PLAMA	10	MIXED	45	.	.	50	EQUHY	20	ANVCR	10	JUNSP	5	MIXED	5	RUMCR	10	75	EQUHY	20	PLAMA	5	JUNSP	10	ANVCR	25	MIXED	15
51	40	EQUHY	10	EPHSP	10	CYPRO	5	MIXED	15	.	.	40	EQUHY	10	EPHSP	5	MIXED	20	POROL	5	.	.	40	EQUHY	10	MIXED	30	.	.	.	.	.	.
52	40	EQUHY	5	MIXED	35	.	.	.	.	.	.	30	MIXED	30	.	.	.	.	.	.	.	.	50	EQUHY	10	MIXED	30	PLAMA	10	.	.	.	.
53	80	EQUHY	40	CYPES	35	MIXED	5	.	.	.	.	60	EQUHY	30	CYPES	20	MIXED	10	.	.	.	.	50	EQUHY	20	CYPES	20	POROL	10	.	.	.	.
54	60	EQUHY	55	MIXED	5	.	.	.	.	.	.	80	EQUHY	75	MIXED	5	.	.	.	.	.	.	70	EQUHY	50	TRTPO	20	.	.	.	.	.	.
55	70	TRTPO	20	EQUHY	35	MIXED	10	ECHCO	5	.	.	80	EQUHY	60	TRTPO	15	MIXED	5	.	.	.	.	70	EQUHY	40	TRTPO	20	MIXED	10	.	.	.	.
56	40	MIXED	10	CYPRO	10	DEAD	20	.	.	.	.	50	MIXED	5	DEAD	30	CYPRO	5	POROL	5	EPHSP	5	40	MIXED	10	EPHSP	5	EPHSP	5	DEAD	20	.	.
57	95	MIXED	10	DEAD	85	.	.	.	.	.	.	90	MIXED	70	POROL	20	.	.	.	.	.	.	90	MIXED	60	EQUHY	20	POROL	10	.	.	.	.
58	70	CYPES	10	ASTSP	10	MIXED	35	DEAD	15	.	.	85	MIXED	15	EPHSP	15	DEAD	55	.	.	.	.	60	MIXED	10	CYPES	5	ERIGR	10	DEAD	30	RUMCR	5
59	80	ALYAL	30	MIXED	5	POROL	5	DEAD	40	.	.	70	ALYAL	15	DEAD	35	AMAPA	15	MIXED	5	.	.	45	MIXED	10	POROL	10	RUMCR	5	ECHCG	5	DEAD	15
60	90	CYNDA	80	DEAD	8	ERIGR	2	.	.	.	.	85	CYNDA	50	MIXED	10	ERIGR	5	DEAD	20	.	.	70	CYNDA	40	MIXED	5	DEAD	25	.	.	.	.
61	25	EQUHY	20	POLMO	5	.	.	.	.	.	.	21	EQUHY	15	POLMO	5	CYPES	1	.	.	.	.	10	EQUHY	5	MIXED	5	.	.	.	.	.	.
62	70	ASTSP	20	EQUHY	30	PLALA	20	.	.	.	.	70	EQUHY	20	PLALA	25	DEAD	5	RUMCR	15	ULMPU	5	80	MIXED	15	EQUHY	30	PLALA	20	RUMCR	10	DEAD	5
63	90	TYHSP	25	CYNDA	40	EQUHY	10	DEAD	15	.	.	80	TYHSP	10	CYNDA	40	EQUHY	5	DEAD	25	.	.	85	TYHSP	5	CYNDA	30	EQUHY	5	DEAD	40	MIXED	5
64	90	CYNDA	60	LEEOR	10	ASTSP	10	JUNSP	5	MIXED	5	80	CYNDA	40	LEEOR	10	ASTSP	10	JUNSP	10	VESTH	10	65	CYNDA	15	LEEOR	10	ASTSP	20	JUNSP	5	DEAD	15
65	40	PLALA	5	EQUHY	30	SASKR	5	.	.	.	.	50	EQUHY	40	SASKR	5	LEEOR	5	.	.	.	.	33	EQUHY	30	LEEOR	1	CYPES	1	TRBTE	1	.	.
66	100	EQUHY	95	ASTSP	5	.	.	.	.	.	.	100	EQUHY	99	ASTSP	1	.	.	.	.	.	.	100	EQUHY	95	MIXED	5	.	.	.	.	.	.
67	11	EQUHY	10	MIXED	1	.	.	.	.	.	.	20	EQUHY	10	DIGSA	10	.	.	.	.	.	.	10	EQUHY	5	ECHCG	5	.	.	.	.	.	.
68	50	EQUHY	50	.	.	.	.	.	.	.	.	50	EQUHY	50	.	.	.	.	.	.	.	.	50	EQUHY	50	.	.	.	.	.	.	.	.
69	60	HORJU	55	MIXED	5	.	.	.	.	.	.	60	HORJU	57	MIXED	3	.	.	.	.	.	.	30	HORJU	10	RUMCR	10	MIXED	10	.	.	.	.
70	60	SASKR	30	CYPES	1	CYNDA	29	.	.	.	.	40	SASKR	20	CYNDA	10	ASTSP	10	.	.	.	.	30	SASKR	10	HORJU	10	MIXED	10	.	.	.	.
71	25	MIXED	5	HORJU	20	.	.	.	.	.	.	25	MIXED	10	ASTSP	5	HORJU	10	.	.	.	.	20	HORJU	19	MIXED	1	.	.	.	.	.	.
72	65	HORJU	20	PLALA	5	RUMCR	40	.	.	.	.	100	PLALA	25	DEAD	75	.	.	.	.	.	.	100	RUMCR	10	PLALA	15	DEAD	75	.	.	.	.
73	100	RUMCR	20	PLALA	5	HORJU	5	DEAD	70	.	.	100	MIXED	15	PLALA	10	DEAD	65	PHYNO	10	.	.	95	RUMCR	5	PLALA	5	MIXED	5	PHYNO	10	DEAD	70
74	36	ASTSP	20	JUNSP	1	PLALA	10	ULMPU	5	.	.	80	RUMCR	30	ASTSP	20	PLALA	20	MIXED	10	.	.	35	RUMCR	10	PLALA	20	MIXED	5	.	.	.	.
75	40	CYNDA	5	PLALA	30	MIXED	5	.	.	.	.	30	ASTSP	10	PLALA	20	.	.	.	.	.	.	10	SASKR	1	ASTSP	1	RUMCR	1	PLALA	7	.	.
76	100	DEAD	100	.	.	.	.	.	.	.	.	100	DEAD	100	.	.	.	.	.	.	.	.	100	DEAD	100	.	.	.	.	.	.	.	.
760	40	ECHCG	10	POASP	10	HELICI	20	.	.	.	.	40	ECHCG	10	POASP	10	HELICI	20	.	.	.	.	40	ECHCG	20	POASP	10	HELICI	10	.	.	.	.
77	10	TAROF	10	.	.	.	.	.	.	.	.	20	TAROF	20	.	.	.	.	.	.	.	.	10	PHAMI	5	PLALA	5	.	.	.	.	.	.
78	100	RUMCR	20	ASTSP	30	EQUHY	50	.	.	.	.	95	RUMCR	10	ASTSP	10	EQUHY	55	PLALA	10	MIXED	10	95	ASTSP	10	EQUHY	45	PLALA	20	BRASP	20	.	.
79	60	MIXED	5	EQUHY	30	CYNDA	25	.	.	.	.	65	EQUHY	30	CYNDA	20	POLMO	5	MIXED	10	.	.	90	EQUHY	40	CYNDA	30	ASTSP	10	MIXED	10	.	.
80	55	EQUHY	44	KCHSC	10	ASTSP	1	.	.	.	.	40	EQUHY	35	MIXED	5	.	.	.	.	.	.	40	EQUHY	35	MIXED	5	.	.	.	.	.	.
81	70	CYPES	10	ASTSP	10	CYNDA	30	LEEOR	20	.	.	70	MIXED	15	CYNDA	45	ECHCO	10	.	.	.	.	55	CYPES	5	CYNDA	35	ASTSP	10	MIXED	5	.	.
82	100	HORJU	45	CYNDA	45	MIXED	10	.	.	.	.	100	HORJU	100	.	.	.	.	.	.	.	.	100	HORJU	30	MIXED	10	LEEOR	30	ECHCG	30	.	.
83	42	BACGL	25	EQUHY	5	ECHCG	10	ANNBR	2	.	.	50	BACGL	25	EQUHY	5	RUMCR	5	ECHCG	15	.	.	80	BACGL	20	RUMCR	20	ECHCG	25	EQUHY	5	.	.
84	100	MIXED	5	DEAD	95	.	.	.	.	.	.	100	MIXED	5	ASTSP	5	DEAD	90	.	.	.	.	100	MIXED	5	DEAD	95	.	.	.	.	.	.
85	90	RUMCR	15	HELICI	5	MIXED	30	CYPES	5	CYNDA	35	50	HELICI	10	CYNDA	30	MIXED	10	.	.	.	.	75	RUMCR	5	HELICI	5	CYNDA	30	MIXED	35	.	.
86	5	CYNDA	5	.	.	.	.	.	.	.	.	10	CYNDA	10	.	.	.	.	.	.	.	.	15	CYNDA	10	PLAMA	5	.	.	.	.	.	.
860	35	SETVE	10	POROL	25	.	.	.	.	.	.	50	PLAMA	5	SETVE	25	POROL	15	BACGL	5	.	.	45	SETVE	25	SIDHE	5	EPHSP	5	BACGL	5	PLAMA	5

VEG data from Rio Grande Basin Initiative Survey of Leasburg Canal System 2002-2006

sample	Q11VP	Q11s	Q11p	Q12s	Q12p	Q13s	Q13p	Q14s	Q14p	Q15s	Q15p	Q21VP	Q21s	Q21p	Q22s	Q22p	Q23s	Q23p	Q24s	Q24p	Q25s	Q25p	Q31VP	Q31s	Q31p	Q32s	Q32p	Q33s	Q33p	Q34s	Q34p	Q35s	Q35p	
87	0	0	0
88	95	EQUHY	90	MIXED	5	.	.	.	.	.	.	90	EQUHY	85	MIXED	5	.	.	.	.	.	.	90	EQUHY	85	MIXED	5	.	.	.	.	.	.
89	1	HOFDE	1	.	.	.	.	.	.	.	.	1	HOFDE	1	.	.	.	.	.	.	.	.	1	HOFDE	1	.	.	.	.	.	.	.	.
90	0	0	0
91	0	0	0
92	20	PLALA	10	EQUHY	2	TAROF	8	.	.	.	.	30	EQUHY	10	TAROF	10	MIXED	10	.	.	.	.	25	PLALA	1	EQUHY	20	MIXED	4	.	.	.	.
93	5	EQUHY	5	5	EQUHY	5	5	EQUHY	5
94	30	EQUHY	30	30	EQUHY	30	30	EQUHY	30
95	51	LEEOR	10	CYNDA	40	BACGL	1	.	.	.	.	76	LEEOR	15	CYNDA	50	ASTSP	10	SETLU	1	.	.	70	LEEOR	10	CYNDA	55	SETLU	5	.	.	.	.
96	56	LEEOR	25	PLAMA	15	SORHA	1	ASTSN	10	CYNDA	5	45	LEEOR	10	PLAMA	10	SORHA	5	ASTSN	15	SETLU	5	36	PLAMA	1	CYNDA	25	SORHA	5	SETLU	5	.	.	
97	65	LEEOR	20	CYNDA	30	PLAMA	10	EQUHY	5	.	.	60	LEEOR	20	CYNDA	25	PLAMA	10	EQUHY	5	.	.	31	LEEOR	5	CYNDA	20	PLAMA	5	EQUHY	1	.	.	
98	95	EQUHY	90	BROCA	5	.	.	.	.	.	.	95	EQUHY	90	BROCA	5	.	.	.	.	.	.	55	EQUHY	50	POASP	5	.	.	.	.	.	.
99	8	CYPES	1	RUMCR	1	DEAD	5	BACGL	1	.	.	25	CYPES	5	DEAD	10	BACGL	10	.	.	.	.	8	CYPES	1	DEAD	5	LEEOR	1	SOLEL	1	.	.
100	25	PLAMA	10	KCHSC	10	BACGL	5	.	.	.	.	25	KCHSC	5	BACGL	5	ECHCG	5	CYNDA	10	.	.	40	PLAMA	10	KCHSC	5	BACGL	5	ECHCG	5	.	.
101	100	CYNDA	30	LEEOR	65	JUNSP	5	.	.	.	.	100	CYNDA	25	LEEOR	69	JUNSP	5	ECHCG	1	.	.	100	CYNDA	25	LEEOR	69	JUNSP	5	ECHCG	1	.	.
102	100	CYNDA	60	PASDI	35	OTHER	5	.	.	.	.	100	CYNDA	55	PASDI	35	RUMCR	10	.	.	.	.	100	CYNDA	50	PASDI	35	RUMCR	15	.	.	.	.
103	25	LEEOR	5	CYNDA	15	KCHSC	5	.	.	.	.	40	CYNDA	25	KCHSC	10	OTHER	5	.	.	.	.	46	LEEOR	1	CYNDA	30	KCHSC	10	RUMCR	5	.	.
104	96	KCHSC	5	EQUHY	5	CYNDA	85	HOFDE	1	.	.	91	KCHSC	1	EQUHY	5	CYNDA	80	DEAD	5	.	.	62	EQUHY	1	CYNDA	55	HOFDE	5	BACGL	1	.	.	
105	55	ASTSP	5	CYNDA	25	POASP	25	50	CYNDA	25	POASP	25	30	CYNDA	15	POASP	15
106	20	CHEAL	5	ECHCG	5	SETLU	5	CYPES	2	FABSP	3	20	CHEAL	5	PASDI	5	CYPES	5	CYNDA	5	.	.	46	CHEAL	1	PASDI	5	CYPES	5	CYNDA	30	.	.	
107	40	EQUHY	15	CYNDA	15	BACGL	5	DEAD	5	.	.	50	EQUHY	10	CYNDA	30	DEAD	10	.	.	.	.	55	EQUHY	10	CYNDA	40	ASTSP	5	.	.	.	.
108	33	CYNDA	25	SPHCO	2	CYPES	1	EQUHY	5	.	.	55	CYNDA	35	EQUHY	15	ANNBR	5	.	.	.	.	40	CYNDA	30	EQUHY	10	.	.	.	.	.	.
109	55	ECHCG	30	EQUHY	10	HOFDE	5	PHYNO	5	ULMPU	5	32	POASP	15	EQUHY	5	HOFDE	5	PHYNO	10	OTHER	17	50	POASP	25	EQUHY	5	HOFDE	5	PHYNO	10	ULMPU	5	
110	15	CYNDA	5	SAZCY	5	EQUHY	5	.	.	.	.	15	CYNDA	10	EQUHY	5	.	.	.	.	.	.	25	CYNDA	5	EQUHY	5	SOLEL	15	.	.	.	.
111	50	OENBE	20	ULMPU	10	PLAMA	10	EPHSP	5	ECHCG	5	45	PLAMA	10	ECHCG	10	CYNDA	25	.	.	.	.	35	OENBE	5	PLAMA	5	EPHSP	5	ECHCG	20	.	.
112	55	ECHCG	15	SETLU	35	BACGL	2.5	EQUHY	3	.	.	40	ECHCG	5	SETLU	30	EQUHY	5	.	.	.	.	30	ECHCG	5	SETLU	20	EQUHY	5	.	.	.	.
113	90	LEEOR	2	CYNDA	40	OENBE	35	PLALA	10	OTHER	4	94	CYNDA	35	OENBE	30	BROCA	25	HOFDE	2	OTHER	2	95	PLALA	25	OENBE	40	CYNDA	10	BACGL	10	POASP	10	
114	90	CYNDA	78	AMAPA	10	SETLU	1	SASKR	1	.	.	95	CYNDA	84	SETLU	5	SASKR	5	CYPES	1	.	.	95	CYNDA	71	SETLU	10	SASKR	10	ERIGR	1	AMAPA	3	
115	52	CONAR	5	SETLU	35	CYNDA	10	ECHCG	2	.	.	46	CONAR	1	SETLU	35	CYNDA	5	ECHCG	5	.	.	36	SETLU	30	CYNDA	5	ECHCG	1	.	.	.	.
116	35	CYPES	5	AMAPA	25	CYNDA	5	.	.	.	.	36	CYPES	10	AMAPA	20	SETVE	5	TRTPO	1	.	.	36	CYPES	10	SETVE	16	DEAD	10	.	.	.	.
117	51	CONAR	10	SETLU	15	CYNDA	25	CYPES	1	.	.	51	CONAR	10	SETLU	5	CYNDA	10	ECHCG	25	JUNSP	1	72	CONAR	10	POASP	40	CYNDA	5	SASKR	15	OTHER	2	
118	100	SETVE	75	CYNDA	25	.	.	.	.	.	.	100	SETVE	60	CYNDA	25	AMAPA	10	SORHA	5	.	.	100	SETVE	60	CYNDA	30	AMAPA	10	.	.	.	.
119	30	PECAN	10	ECHCG	10	DEAD	10	.	.	.	.	50	PECAN	5	ECHCG	25	DEAD	20	.	.	.	.	25	PECAN	5	ECHCG	15	PLALA	5	.	.	.	.
120	80	ECHCG	80	60	ECHCG	60	65	ECHCG	65
121	47	POASP	20	RUMCR	15	CYPES	1	ECHCG	5	OTHER	6	40	POASP	25	CYNDA	5	BACGL	5	HOFDE	3	CYPES	2	42	POASP	15	HOFDE	2	CYPES	5	ECHCG	20	.	.	
122	90	LEEOR	15	CYNDA	20	CONAR	15	RUMCR	15	PHYNO	5	55	LEEOR	20	CYNDA	25	CONAR	3	PHYNO	5	HOFDE	2	73	LEEOR	30	CYNDA	25	RUMCR	2	PHYNO	15	HOFDE	1	
123	40	SIDHE	3	RUMCR	1	CYPES	1	CYNDA	35	.	.	32	SIDHE	1	CYPES	3	CYNDA	25	ECHCG	2	SETLU	1	33	SIDHE	2	RUMCR	2	CYPES	2	CYNDA	25	BACGL	2	
124	32	AMAPA	5	CHEAL	5	CYNDA	20	CYPES	2	.	.	47	BACGL	10	CYNDA	15	CYPES	2	AMAPA	10	.	.	72	AMAPA	30	CYPES	5	ANVCR	5	CYNDA	30	BACGL	2	
125	78	CYNDA	70	CYPES	5	SETLU	3	.	.	.	.	79	CYNDA	75	CYPES	1	SETLU	2	HOFDE	1	.	.	80	CYNDA	75	CYPES	2	SETLU	3	.	.	.	.
126	55	CYNDA	50	ECHCG	5	.	.	.	.	.	.	86	CYNDA	75	ECHCG	1	PLALA	10	.	.	.	.	81	CYNDA	80	OENBE	1	.	.	.	.	.	.
127	30	EQUHY	10	OENBE	10	DEAD	10	.	.	.	.	28	EQUHY	10	OENBE	5	DEAD	10	ANNBR	3	.	.	25	EQUHY	10	OENBE	5	DEAD	10	.	.	.	.
128	75	ASTSP	25	ECHCG	50	.	.	.	.	.	.	75	ASTSP	25	ECHCG	50	.	.	.	.	.	.	40	ASTSP	20	ECHCG	20	.	.	.	.	.	.
129	30	ECHCG	20	BACGL	10	.	.	.	.	.	.	41	RUMCR	1	BACGL	20	ECHCG	20	.	.	.	.	40	ECHCG	20	BACGL	20	.	.	.	.	.	.

VEG data from Rio Grande Basin Initiative Survey of Leasburg Canal System 2002-2006

sample	Q11VP	Q11S	Q11P	Q12S	Q12P	Q13S	Q13P	Q14S	Q14P	Q15S	Q15P	Q21VP	Q21S	Q21P	Q22S	Q22P	Q23S	Q23P	Q24S	Q24P	Q25S	Q25P	Q31VP	Q31S	Q31P	Q32S	Q32P	Q33S	Q33P	Q34S	Q34P	Q35S	Q35P
130	89	CYNDA	80	ULMPU	5	PLALA	2	ECHCG	1	MEDSA	1	77	CYNDA	55	ECHCG	20	SETLU	1	MEDSA	1	.	.	77	CYNDA	35	ECHCG	35	PLALA	1	CYPES	5	MACCA	1
131	81	ECHCG	40	ASTSP	40	BACGL	1	.	.	.	.	80	ECHCG	40	ASTSP	40	.	.	.	.	.	.	60	ECHCG	30	ASTSP	25	MACCA	5	.	.	.	.
132	90	CYPES	1	SONOL	1	PLAMA	2	POROL	1	EQUHY	85	85	SONOL	5	PLAMA	5	EQUHY	75	.	.	.	.	78	SONOL	1	PLAMA	1	EQUHY	75	PLALA	1	.	.
133	20	EQUHY	19	ULMPU	1	.	.	.	.	.	.	30	EQUHY	30	.	.	.	.	.	.	.	.	46	EQUHY	35	ECHCO	10	ULMPU	1	.	.	.	.
134	37	EQUHY	35	ULMPU	1	RUMCR	1	.	.	.	.	25	EQUHY	25	.	.	.	.	.	.	.	.	35	EQUHY	35	.	.	.	.	.	.	.	.
135	28	SONOL	1	CYPRO	1	ANVCR	5	KCHSC	20	PLALA	1	30	MIXED	2	POASP	5	ANVCR	3	KCHSC	10	PLALA	10	15	GAAPA	5	POASP	5	KCHSC	5	.	.	.	.
136	41	CYNDA	30	SORHA	5	POASP	5	POROL	1	.	.	75	CYNDA	70	POASP	5	.	.	.	.	.	.	32	CYNDA	30	SORHA	1	POASP	1	.	.	.	.
137	35	PLALA	25	MIXED	10	.	.	.	.	.	.	25	PLALA	5	MIXED	20	.	.	.	.	.	.	45	CYNDA	10	MIXED	30	RUMCR	5	.	.	.	.
138	5	EQUHY	5	.	.	.	.	.	.	.	.	5	EQUHY	5	.	.	.	.	.	.	.	.	10	EQUHY	10	.	.	.	.	.	.	.	.
148	50	ERIGR	20	KCHSC	10	TRBTE	10	CHRVI	10	.	.	47	ERIGR	30	TRBTE	10	CHRVI	5	TRTPO	1	AMAPA	1	85	ERIGR	60	TRBTE	25	.	.	.	.	.	.
153	60	ASTSN	40	CYNDA	20	.	.	.	.	.	.	85	ASTSN	45	CYNDA	40	.	.	.	.	.	.	50	ASTSN	50	.	.	.	.	.	.	.	.
154	32	CHRVI	2	PHBPU	30	.	.	.	.	.	.	33	CHRVI	2	PHBPU	30	TRBTE	1	.	.	.	.	82	PHBPU	80	TRBTE	1	ECHCG	1	.	.	.	.
155	35	LEFFI	30	ECHCO	5	.	.	.	.	.	.	41	LEFFI	30	ECHCO	10	CYPRO	1	.	.	.	.	35	LEFFI	25	ECHCO	5	SONOL	5	.	.	.	.
156	95	AMAPA	5	ECHCO	2	SIDHE	10	PHBPU	78	.	.	70	ECHCO	5	PHBPU	60	EPHSP	5	.	.	.	.	50	ECHCO	5	PHBPU	42	SASKR	1	EPHSP	1	TRBTE	1
157	80	OENBE	10	ANVCR	70	.	.	.	.	.	.	70	OENBE	10	ANVCR	54	CONAR	1	SSYIR	2	POASP	3	43	OENBE	2	ANVCR	30	SONOL	10	ECHCO	1	.	.
163	30	CYPES	5	ULMPU	10	ASTSP	15	PLALA	10	.	.	25	CYPES	5	ULMPU	5	ASTSP	10	PLALA	5	ECHCO	5	35	CYPES	5	ULMPU	10	ASTSP	20	.	.	.	.
164	21	BACGL	10	SOLEL	5	POASP	1	ASTSP	5	.	.	20	BACGL	10	ASTSP	5	PLALA	5	.	.	.	.	15	BACGL	5	PLALA	10	.	.	.	.	.	.
165	25	RUMCR	10	SONOL	10	ECHCO	5	.	.	.	.	50	RUMCR	25	SONOL	10	ECHCO	15	.	.	.	.	45	RUMCR	10	SONOL	5	ECHCO	25	BACGL	5	.	.
166	50	AMAPA	30	ECHCG	20	.	.	.	.	.	.	35	AMAPA	20	ECHCG	15	.	.	.	.	.	.	40	AMAPA	10	ECHCG	30	.	.	.	.	.	.
167	91	IPOHE	50	ECHCO	40	RUMCR	1	.	.	.	.	100	IPOHE	40	ECHCO	55	BACGL	5	.	.	.	.	100	IPOHE	20	RUMCR	5	ECHCG	70	OENBE	5	.	.
168	85	POROL	5	HOFDE	10	ECHCO	70	.	.	.	.	41	POROL	1	ECHCO	40	.	.	.	.	.	.	46	ECHCO	45	BACGL	1	.	.	.	.	.	.
169	38	ECHCO	35	CYPRO	1	LEFUN	1	.	.	.	.	56	ECHCO	35	CYPRO	10	EPHSP	5	POROL	5	BACGL	1	35	ECHCO	10	CYPRO	10	EPHSP	10	CYNDA	5	.	.
170	75	CYNDA	65	PLAMA	10	.	.	.	.	.	.	40	CYNDA	35	CYPES	5	.	.	.	.	.	.	40	CYNDA	35	MIXED	5	.	.	.	.	.	.
1700	51	PHYNO	20	PASDI	30	SETLU	1	.	.	.	.	56	PHYNO	30	PASDI	20	ECHCO	1	CYNDA	5	.	.	37	PHYNO	25	PASDI	10	ECHCG	2	.	.	.	.
171	75	CYNDA	40	LEEOR	10	SORHA	10	MIXED	15	.	.	75	CYNDA	50	LEEOR	25	.	.	.	.	.	.	60	CYNDA	25	LEEOR	10	ASTSP	20	SETLU	5	.	.
172	30	CYNDA	20	EQUHY	5	ASTSP	5	.	.	.	.	30	CYNDA	20	EQUHY	5	ASTSP	5	.	.	.	.	45	CYNDA	40	EQUHY	5	.	.	.	.	.	.
173	90	CCHIN	30	SETLU	15	ECHCG	15	ERIGR	15	PANDI	15	100	MIXED	40	SETLU	15	ECHCG	15	ERIGR	15	PANDI	15	90	CCHIN	30	SETLU	15	ECHCG	15	ERIGR	15	PANDI	15
174	40	PLALA	25	PHAMI	5	CHEAL	5	MIXED	5	.	.	30	PLALA	10	CYNDA	10	MIXED	10	.	.	.	.	55	PLALA	20	MIXED	15	SORHA	5	CYNDA	5	CCHIN	10
1740	60	CYNDA	50	PLALA	10	.	.	.	.	.	.	55	CYNDA	45	PLALA	10	.	.	.	.	.	.	76	CYNDA	30	PLALA	20	PASDI	5	DISSP	20	ULMPU	1
175	80	CYNDA	40	SETLU	5	LYGJU	25	PLALA	5	POASP	5	75	CYNDA	45	SETLU	10	ASTSP	10	PLALA	5	POASP	5	80	CYNDA	60	SETLU	5	LEEOR	5	PLALA	10	.	.
176	86	AMAPA	10	TRBTE	40	SORHA	25	SPHCO	10	ASTSP	1	75	AMAPA	30	TRBTE	30	SORHA	15	.	.	.	.	70	MIXED	30	TRBTE	20	ASTSP	10	SORHA	10	.	.
177	35	CYPRO	5	CYNDA	25	MIXED	5	.	.	.	.	25	CYPRO	5	CYNDA	5	MIXED	10	PASDI	5	.	.	31	CYPRO	1	CYNDA	20	MIXED	5	PASDI	5	.	.
178	61	CYNDA	30	ULMPU	10	DEAD	20	EQUHY	1	.	.	85	CYNDA	60	ASTSP	5	DEAD	20	.	.	.	.	100	CYNDA	60	ULMPU	10	EQUHY	5	MIXED	5	DEAD	20
179	60	CYNDA	50	MOWED	10	.	.	.	.	.	.	55	CYNDA	35	MOWED	20	.	.	.	.	.	.	75	CYNDA	55	MOWED	15	PLAMA	5	.	.	.	.
180	90	CYNDA	60	MIXED	10	DEAD	20	.	.	.	.	95	CYNDA	60	DEAD	20	MIXED	10	PHYNO	5	.	.	95	CYNDA	70	SETLU	10	MIXED	15	.	.	.	.
181	75	CYNDA	20	PHYNO	40	PLALA	5	MIXED	10	.	.	70	CYNDA	25	PHYNO	35	PLALA	5	MIXED	5	.	.	80	CYNDA	35	PHYNO	30	PLALA	5	MIXED	10	.	.
1810	17	CYPES	2	CYNDA	15	.	.	.	.	.	.	11	CYPES	1	CYNDA	10	.	.	.	.	.	.	6	CYPES	3	CYNDA	3	.	.	.	.	.	.
182	5	CYPES	3	SORHA	3	.	.	.	.	.	.	10	PLALA	5	CYPES	5	.	.	.	.	.	.	10	SORHA	2	CYPES	8	.	.	.	.	.	.
183	30	CYPES	10	SETLU	10	MIXED	10	.	.	.	.	35	CYPES	10	AMAPA	20	MIXED	5	.	.	.	.	26	CYPES	5	SETLU	10	RUMCR	10	TRTPO	1	.	.
184	85	CYNDA	35	ASTSP	15	MIXED	20	PLALA	15	.	.	70	MIXED	10	SORHA	20	PLAMA	25	RUMCR	5	PLALA	10	70	SORHA	15	CYNDA	25	PLAMA	10	POLMO	10	MIXED	10
185	45	DEAD	20	PLALA	10	ERIGR	10	EQUHY	5	.	.	75	CYNDA	40	EQUHY	10	DEAD	10	PLALA	5	MIXED	10	55	CYNDA	30	PLALA	20	EQUHY	5	.	.	.	.
186	60	EQUHY	10	SASKR	20	PLALA	25	MIXED	5	.	.	50	EQUHY	5	SASKR	10	PLALA	25	CYNDA	5	MIXED	5	55	EQUHY	10	PLALA	30	CYNDA	10	SORHA	5	.	.
187	60	TRTPO	10	PHYNO	25	MIXED	5	PLALA	15	MIXED	5	70	PHYNO	35	BROTE	30	MIXED	5	.	.	.	.	85	TRTPO	10	ASTSP	10	PLALA	30	BROTE	30	PHYNO	5

VEG data from Rio Grande Basin Initiative Survey of Leasburg Canal System 2002-2006

sample	Q11VP	Q11S	Q11P	Q12S	Q12P	Q13S	Q13P	Q14S	Q14P	Q15S	Q15P	Q21VP	Q21S	Q21P	Q22S	Q22P	Q23S	Q23P	Q24S	Q24P	Q25S	Q25P	Q31VP	Q31S	Q31P	Q32S	Q32P	Q33S	Q33P	Q34S	Q34P	Q35S	Q35P	
188	95	CYNDA	65	ASTSP	20	MIXED	10	.	.	.	.	100	CYNDA	70	ASTSP	20	MIXED	10	.	.	.	.	90	CYNDA	50	ASTSP	25	PLALA	5	MIXED	10	.	.
189	90	OENBE	70	EQUHY	5	PLALA	10	MIXED	5	.	.	100	OENBE	70	EQUHY	5	PLALA	10	CYNDA	10	MIXED	5	95	OENBE	80	EQUHY	5	PLALA	5	MIXED	5	.	.	
190	95	CYNDA	70	PLALA	20	MIXED	5	.	.	.	.	95	CYNDA	50	PLALA	10	PHYNO	25	MIXED	10	.	.	90	CYNDA	40	PLALA	10	PHYNO	30	POASP	10	.	.
191	75	CYNDA	55	EQUHY	5	SORHA	10	MIXED	5	.	.	75	CYNDA	60	EQUHY	10	SORHA	5	.	.	.	.	95	CYNDA	70	EQUHY	10	SOLEL	5	MIXED	10	.	.
192	50	CYNDA	40	PLALA	5	MIXED	5	.	.	.	.	65	CYNDA	45	PLALA	15	ASTSP	5	.	.	.	.	50	CYNDA	35	PLALA	5	SOLEL	5	ASTSP	5	.	.
193	65	OENBE	44	PLALA	10	CYNDA	1	ECHCG	10	.	.	75	OENBE	40	PLALA	10	CYNDA	20	MIXED	5	.	.	75	OENBE	33	PLALA	20	CYNDA	20	CYPRO	2	.	.	
194	45	CYNDA	25	EQUHY	10	SETLU	10	.	.	.	.	35	EQUHY	5	SETLU	20	SOLEL	5	OENBE	5	.	.	55	CYNDA	25	SETLU	25	MIXED	5	.	.	.	.
195	50	SORHA	20	CYNDA	25	MIXED	5	.	.	.	.	50	SORHA	20	CYNDA	25	MIXED	5	.	.	.	.	70	SORHA	50	CYNDA	15	MIXED	5	.	.	.	.
196	30	BACGL	10	OENBE	10	ECHCG	10	.	.	.	.	36	BACGL	10	OENBE	20	ECHCG	5	SETLU	1	.	.	45	BACGL	10	OENBE	25	ECHCG	10	.	.	.	.
197	55	RUMCR	10	AMAPA	5	PLALA	5	CYNDA	25	MIXED	10	55	RUMCR	20	PLALA	5	CYNDA	20	SORHA	10	.	.	55	PLALA	25	CYNDA	15	SORHA	5	MIXED	10	.	.	
198	75	PLALA	20	ECHCO	10	OENBE	25	RUMCR	20	.	.	65	PLALA	20	ECHCO	10	OENBE	25	MIXED	10	.	.	75	ECHCO	20	OENBE	30	RUMCR	5	HORJU	20	.	.	
199	35	OENBE	20	ECHCO	5	EQUHY	5	TRBTE	5	.	.	45	OENBE	30	TRBTE	5	MIXED	10	.	.	.	.	50	OENBE	25	ECHCO	15	EQUHY	5	ASTSP	5	.	.
200	40	PLALA	10	ECHCO	10	SORHA	10	MIXED	10	.	.	20	PLALA	5	ECHCO	10	CYPES	5	.	.	.	.	35	SORHA	10	CYPES	5	ASTSP	20	.	.	.	.
201	60	AMAPA	5	ASTSP	5	LEEOR	50	.	.	.	.	95	ASTSP	10	LEEOR	80	MIXED	5	.	.	.	.	90	ASTSP	5	LEEOR	85	.	.	.	.	.	.
208	40	ULMPU	10	JUNSP	5	EQUHY	25	.	.	.	.	40	ULMPU	10	JUNSP	5	EQUHY	25	.	.	.	.	35	ULMPU	5	JUNSP	10	EQUHY	15	ASTSP	5	.	.
209	20	AMAPA	5	SORHA	5	CYPES	1	.	.	.	.	20	DEAD	20	.	.	.	.	.	.	.	.	30	AMAPA	10	SORHA	20	.	.	.	.	.	.
210	5	EQUHY	1	OTHER	1	DEAD	3	.	.	.	.	6	EQUHY	1	DEAD	5	.	.	.	.	.	.	5	EQUHY	1	DEAD	3	CYPES	1	.	.	.	.
211	10	SORHA	10	.	.	.	.	.	.	.	.	1	SORHA	1	.	.	.	.	.	.	.	.	10	SORHA	10	.	.	.	.	.	.	.	.
213	16	PLALA	10	SORHA	5	OTHER	1	.	.	.	.	26	PLALA	20	OTHER	1	ULMPU	5	.	.	.	.	45	PLALA	10	OTHER	1	ULMPU	30	EPHSP	5	.	.
214	0	0	0
215	1	ECHCG	1	.	.	.	.	.	.	.	.	1	CYPRO	1	.	.	.	.	.	.	.	.	5	ECHCG	2	CYPRO	2	CYPES	1	.	.	.	.
216	16	SORHA	10	ULMPU	5	CYPES	1	.	.	.	.	25	SORHA	15	ULMPU	10	.	.	.	.	.	.	35	SORHA	30	ULMPU	5	.	.	.	.	.	.
218	81	CYNDA	35	SORHA	10	CYPES	1	DEAD	35	.	.	80	CYNDA	40	SORHA	20	DEAD	20	.	.	.	.	65	CYNDA	50	SORHA	5	DEAD	10	.	.	.	.
219	35	ECHCG	30	TRBTE	5	.	.	.	.	.	.	50	ECHCG	25	TRBTE	5	SORHA	20	.	.	.	.	45	ECHCG	25	SORHA	20	.	.	.	.	.	.
220	91	PHYNO	5	CYPES	5	PLALA	5	SORHA	1	DEAD	75	90	CYPES	1	PLALA	5	DEAD	84	.	.	.	.	89	CYPES	1	PLALA	1	DEAD	88	.	.	.	.
221	36	EQUHY	30	CYNDA	5	ECHCG	1	OTHER	1	.	.	26	EQUHY	15	OTHER	1	POASP	10	.	.	.	.	26	EQUHY	15	OTHER	1	POASP	10	.	.	.	.
222	15	SETLU	5	ECHCO	5	OTHER	5	.	.	.	.	21	POASP	20	OTHER	1	.	.	.	.	.	.	35	POASP	20	ASTSN	5	ASTSP	10	.	.	.	.
223	50	DEAD	40	SASKR	10	.	.	.	.	.	.	45	DEAD	15	SASKR	30	.	.	.	.	.	.	60	DEAD	15	SASKR	45	.	.	.	.	.	.
228	8	BACGL	3	ECHCO	2	POASP	1	RUMCR	1	TRTPO	1	23	POASP	10	SORHA	3	ECHCG	10	.	.	.	.	5	ECHCO	2	SORHA	2	CYPES	1	.	.	.	.
229	19	SORHA	10	EQUHY	5	AMAPA	2	BACGL	2	.	.	16	SORHA	10	EQUHY	5	ECHCO	1	.	.	.	.	16	SORHA	10	EQUHY	4	PLALA	2	.	.	.	.
230	6	TRTPO	1	CYPES	1	EQUHY	2	ECHCO	2	.	.	12	EQUHY	10	ECHCO	1	TRTPO	1	.	.	.	.	16	EQUHY	5	ECHCO	5	AMAPA	5	EPHSP	1	.	.
231	75	EQUHY	75	.	.	.	.	.	.	.	.	75	EQUHY	75	.	.	.	.	.	.	.	.	75	EQUHY	75	.	.	.	.	.	.	.	.
232	17	EQUHY	5	ECHCO	10	CYPES	1	OTHER	1	.	.	37	EQUHY	5	ECHCO	25	CYPES	2	BACGL	5	.	.	40	EQUHY	5	ECHCO	25	CYPES	5	BACGL	5	.	.	
233	70	EQUHY	70	.	.	.	.	.	.	.	.	70	EQUHY	70	.	.	.	.	.	.	.	.	70	EQUHY	70	.	.	.	.	.	.	.	.
235	11	EQUHY	5	DEAD	5	OTHER	1	.	.	.	.	20	DEAD	10	AMAPA	5	ECHSP	5	.	.	.	.	15	DEAD	10	OTHER	5	.	.	.	.	.	.
236	60	ECHCO	30	PLALA	20	ULMPU	5	FABSP	5	.	.	52	ECHCO	30	PLALA	10	ULMPU	2	FABSP	10	.	.	56	ECHCO	25	PLALA	10	LEEOR	10	CYPES	5	OTHER	6	
237	20	EQUHY	10	CYNDA	10	.	.	.	.	.	.	10	EQUHY	10	.	.	.	.	.	.	.	.	15	EQUHY	15	ECHCG	5	.	.	.	.	.	.
238	20	ECHCG	10	ECHCO	10	.	.	.	.	.	.	18	ECHCO	10	POLMO	1	GAAPA	5	BACGL	2	.	.	21	ECHCO	20	PLALA	1	.	.	.	.	.	.
248	60	EQUHY	60	60	EQUHY	60	60	EQUHY	60
249	32	POROL	2	EQUHY	30	25	EQUHY	25	30	EQUHY	30
250	51	ANVCR	2	PLALA	3	ULMPU	1	EQUHY	45	.	.	42	PLALA	1	EQUHY	35	ECHCO	2	PHYNO	1	SONOL	3	45	EQUHY	30	PLALA	5	ECHCO	2	SONOL	3	RUMCR	5	
251	65	OENBE	45	ECHCO	10	PECAN	5	EQUHY	5	.	.	57	OENBE	35	EQUHY	5	ANVCR	5	ECHCG	10	OTHER	2	82	OENBE	25	ECHCG	50	EQUHY	5	CYPES	1	OTHER	11	
253	60	CYNDA	25	ECHCG	25	EQUHY	5	CHRVI	5	.	.	35	CYNDA	10	ECHCG	10	EQUHY	5	PLALA	5	CHRVI	5	35	CYNDA	10	ECHCG	5	EQUHY	10	SONOL	5	OENBE	5	

VEG data from Rio Grande Basin Initiative Survey of Leasburg Canal System 2002-2006

sample	Q1TVP	Q11s	Q11p	Q12s	Q12p	Q13s	Q13p	Q14s	Q14p	Q15s	Q15p	Q2TVP	Q21s	Q21p	Q22s	Q22p	Q23s	Q23p	Q24s	Q24p	Q25s	Q25p	Q3TVP	Q31s	Q31p	Q32s	Q32p	Q33s	Q33p	Q34s	Q34p	Q35s	Q35p	
254	51	EQUHY	50	ECHCO	1	51	EQUHY	50	ECHCO	1	51	EQUHY	50	ECHCO	1
255	87	AMAPA	10	EQUHY	75	OENBE	1	RUMCR	1	.	.	78	EQUHY	75	OENBE	1	RUMCR	1	CYPES	1	.	.	56	EQUHY	50	OENBE	5	RUMCR	1
256	92	OENBE	60	RUMCR	5	EQUHY	5	ECHCG	15	OTHER	7	85	OENBE	55	EQUHY	5	ECHCO	5	ANVCR	5	OTHER	15	90	OENBE	45	EQUHY	5	CYPRO	10	ECHCO	20	ANVCR	10	
257	35	PLALA	10	ASTSP	10	RUMCR	10	MIXED	5	.	.	30	ASTSP	20	CYNDA	10	.	.	.	.	.	.	25	PLALA	5	ASTSP	10	CYNDA	10	.	.	.	.
258	80	CYNDA	50	ASTSP	20	PLALA	10	.	.	.	.	95	CYNDA	70	ASTSP	20	HORJU	5	.	.	.	.	95	CYNDA	70	ASTSP	20	HORJU	5	.	.	.	.
259	80	PLALA	30	CYNDA	45	KCHSC	5	.	.	.	.	80	PLALA	30	CYNDA	45	CONAR	5	.	.	.	.	85	PLALA	20	CYNDA	65	.	.	.	.	.	.
260	61	CYNDA	40	PLALA	20	ASTSP	1	.	.	.	.	55	CYNDA	15	PLALA	30	ASTSP	5	CONAR	5	.	.	60	CYNDA	25	PLALA	30	MIXED	5	.	.	.	.
261	100	PLALA	5	HORJU	10	CYNDA	85	.	.	.	.	100	PLALA	5	HORJU	10	CYNDA	85	.	.	.	.	100	PLALA	5	HORJU	10	CYNDA	85	.	.	.	.
263	25	CYNDA	25	.	.	.	.	.	.	.	.	50	CYNDA	40	PLALA	5	ASTSP	5	.	.	.	.	60	CYNDA	50	PLALA	10	.	.	.	.	.	.
265	35	PLALA	25	EQUHY	5	MIXED	5	.	.	.	.	45	PLALA	5	EQUHY	5	CYNDA	10	ASTSP	25	.	.	45	MIXED	10	CYNDA	10	ASTSP	25	.	.	.	.
267	90	TRFRE	35	PLALA	15	CYNDA	40	.	.	.	.	85	TRFRE	20	PLALA	30	CYNDA	35	.	.	.	.	100	TRFRE	5	PLALA	20	CYNDA	75	.	.	.	.
268	60	EQUHY	2	ASTSP	3	PLALA	5	CYNDA	50	.	.	50	ASTSP	20	MIXED	5	PLALA	10	CYNDA	10	POLMO	5	50	MIXED	5	PLALA	25	CYNDA	20	.	.	.	.
269	55	SORHA	15	CYNDA	10	ASTSP	20	PLALA	10	.	.	35	SORHA	10	CYNDA	5	ASTSP	10	POLMO	10	.	.	50	CYNDA	10	ASTSP	5	MIXED	5	PLALA	30	.	.	
270	35	PLALA	20	CYNDA	5	MIXED	10	.	.	.	.	55	PLALA	10	CYNDA	15	RUMCR	5	OENBE	20	ASTSP	5	50	PLALA	10	CYNDA	10	HORJU	10	OENBE	5	ASTSP	15
271	31	PLALA	25	HORJU	5	CYPES	1	.	.	.	.	10	HORJU	5	MIXED	5	.	.	.	.	.	.	46	PLALA	30	HORJU	10	CYPES	1	CONAR	5	.	.
272	95	ASTSP	35	PASDI	5	CYNDA	55	.	.	.	.	95	ASTSP	25	LEEOR	5	CYPES	1	CYNDA	64	.	.	99	ASTSP	20	CYNDA	59	LEEOR	5	MIXED	10	HORJU	5
273	1	PLALA	1	.	.	.	.	.	.	.	.	5	SORHA	1	ECHCG	4	.	.	.	.	.	.	7	PLALA	1	SORHA	1	CYNDA	3	PLAMA	1	ASTSP	1
275	85	CYNDA	20	PASDI	5	MEDSA	20	HORJU	20	PLALA	20	50	CYNDA	10	PASDI	30	HORJU	5	PLALA	5	.	.	80	CYNDA	20	PASDI	25	MEDSA	10	PLALA	10	MIXED	15	
276	50	CYNDA	45	EQUHY	5	.	.	.	.	.	.	45	CYNDA	45	.	.	.	.	.	.	.	.	50	CYNDA	50	.	.	.	.	.	.	.	.
277	50	PHYNO	10	KCHSC	5	CYNDA	20	HORJU	10	MIXED	5	45	TRFRE	25	HORJU	5	ASTSP	15	.	.	.	.	25	PLALA	5	HORJU	5	TRFRE	10	MIXED	5	.	.
278	40	EQUHY	5	RUMCR	5	CYNDA	25	MIXED	5	.	.	45	EQUHY	15	CYNDA	10	POASP	20	.	.	.	.	45	EQUHY	10	CYNDA	25	HORJU	5	MIXED	5	.	.
279	75	RUMCR	10	PLALA	5	CYNDA	55	MIXED	5	.	.	80	RUMCR	10	PLALA	5	CYNDA	64	ASCSY	1	.	.	91	RUMCR	5	PLALA	20	CYNDA	55	ASCSY	1	ULMPU	10	
280	40	ASTSP	15	RUMCR	10	PLALA	10	MIXED	5	.	.	50	ASTSP	20	RUMCR	10	PLALA	10	MIXED	5	PHYNO	5	5	PLALA	2	SORHA	3	.	.	.	.	.	.
281	50	CYNDA	40	BROTE	5	MIXED	5	.	.	.	.	60	CYNDA	30	RUMCR	25	MIXED	5	.	.	.	.	70	CYNDA	60	MIXED	10	.	.	.	.	.	.
282	30	EQUHY	10	ASTSP	10	MIXED	10	.	.	.	.	35	EQUHY	10	AMAPA	20	MIXED	5	.	.	.	.	35	EQUHY	30	MIXED	5	.	.	.	.	.	.
283	40	RUMCR	20	CYNDA	15	HORJU	5	.	.	.	.	50	CYNDA	25	HORJU	10	MIXED	5	ECHCO	10	.	.	70	CYNDA	60	HORJU	5	MIXED	5	.	.	.	.
284	70	BROTE	20	CYNDA	45	MIXED	5	.	.	.	.	40	BROTE	10	CYNDA	25	MIXED	5	.	.	.	.	30	BROTE	10	CYNDA	10	MIXED	10	.	.	.	.
285	35	ECHCO	30	MIXED	5	.	.	.	.	.	.	25	ECHCO	13	ASTSP	10	EQUHY	1	MIXED	1	.	.	25	ECHCO	20	MIXED	5	.	.	.	.	.	.
286	85	KCHSC	80	EQUHY	5	.	.	.	.	.	.	45	KCHSC	30	EQUHY	5	ASTSP	10	.	.	.	.	35	KCHSC	30	MIXED	5	.	.	.	.	.	.
287	45	SASKR	30	SETLU	10	CYPES	5	.	.	.	.	40	SASKR	30	SETLU	5	MIXED	5	.	.	.	.	40	SASKR	25	ASTSP	5	KCHSC	5	MIXED	5	.	.
288	80	CONAR	25	PLALA	55	.	.	.	.	.	.	35	PLALA	25	MIXED	10	.	.	.	.	.	.	75	CONAR	20	PLALA	50	MIXED	5	.	.	.	.
289	95	ANVCR	90	MIXED	5	.	.	.	.	.	.	60	ANVCR	45	ASTSP	5	MIXED	10	.	.	.	.	90	ANVCR	40	PLALA	30	ASTSP	10	MIXED	10	.	.
290	70	EQUHY	10	ECHCO	30	PLALA	10	RUMCR	20	.	.	65	EQUHY	10	ECHCO	20	PLALA	30	MIXED	5	.	.	95	EQUHY	25	ECHCO	30	RUMCR	30	ASTSP	5	MIXED	5	
291	40	KCHSC	40	5	SORHA	5	1	CYNDA	1
292	30	CYNDA	25	MIXED	5	.	.	.	.	.	.	40	CYNDA	10	SPHCO	10	SORHA	10	MIXED	10	.	.	40	SORHA	10	MALNE	10	ECHCO	10	MIXED	10	.	.
296	35	PLALA	30	MIXED	5	.	.	.	.	.	.	40	PLALA	20	MALNE	10	MIXED	10	.	.	.	.	30	POASP	20	CYPRO	5	PLALA	5	.	.	.	.
297	45	POASP	20	MALNE	20	MIXED	5	.	.	.	.	75	POASP	30	MALNE	20	ASTSP	20	MIXED	5	.	.	50	POASP	25	MALNE	5	ASTSP	20	.	.	.	.