

APPENDIX E of 2004 I.R.C. EA

**SUMMARIES OF
EXISTING HABITAT AND HABITAT CHANGE SINCE 1993
FOR EACH 2004 INTERIM RENEWAL CONTRACTOR**

AMERICAN RIVER DIVISION (Interim Contracts)

Summary of 1993 - 2000 Conversions of Natural Land by Water Service Area (Acres)

IDCON#	WSA NAME	WSA ACRES	Natural Landcover 1993	Natural Landcover 2000	Natural - Other (1993-2000)	Other - Natural (1993 - 2000)	Percents of Natural Loss or Gain	Natural Landcover Change per WSA	Natural - Ag.	Natural - Urban	Natural - Unknown
2017801	Boonville, IA	18,273	123,571	119,800	28,185	66	-2.18%	33	68	2527	59
2017802	Boonville, IA	3,500	2,500	2,500	0	0	0.00%	0	0	542	0
2017803	Boonville, IA	1,000	1,000	1,000	0	0	0.00%	30	30	2531	59
2017804	Boonville, IA	1,000	1,000	1,000	0	0	0.00%	68	68	5800	112

10/31/03

El Dorado I.D. IDCON-201780

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	48
Agriculture to Unknown	0
Agriculture to Natural	21
Natural to Agriculture	34
Natural to Urban	2528
Natural to Unknown	57
Urban to Natural	0
No Change	135028
Total Acreage	137719

**El Dorado Irrigation District (IDCON-201780)
Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)**

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	25	0	0	0	0	0	0	0	0	0	25
AG-I	0	3736	48	14	0	0	10	0	0	0	3807
URB	0	0	12367	0	0	0	0	0	0	0	12367
BAR	0	21	12	247	0	0	0	0	0	0	280
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	1240	0	0	0	0	1240
GRS	0	0	1458	270	0	0	21403	0	0	0	23131
SHB	0	0	66	0	0	0	2	6494	0	4	6566
WDL	0	12	991	0	0	0	12	0	89233	52	90300
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	25	3768	14942	531	0	1240	21427	6494	89233	56	137716

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This table is subject to change as refinements are made to the data.

Note 2: The habitat types in this table are based on groupings of the WHIC classification (May et al., 1998).

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

Note 3: Values include habitat acres with no change.

3/1/2004

San Juan W.D. - IDCON201760

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	30
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	542
Natural to Unknown	0
Urban to Natural	0
No Change	78930
Total Acreage	79502

**San Juan Water District (IDCON-201760)
Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)**

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	679	30	0	0	0	0	0	0	0	709
URB	0	0	23009	0	0	0	0	0	0	0	23009
BAR	0	0	0	59	0	0	0	0	0	0	59
WET	0	0	0	0	13	0	0	0	0	0	13
WAT	0	0	0	0	0	67	0	0	0	0	67
GRS	0	0	338	17	0	0	1596	0	3	0	1954
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	204	5	0	0	0	0	3480	0	3689
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	679	23581	81	13	67	1596	0	3483	0	29500

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made to procedures

Note 2: The habitat types in this matrix are based on groupings of the 1993 data (Barren, Shrub, and Wet)

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

3/1/2004

Note 3: Acres include habitat acres with no change

Eldorado ID - Sly Park Unit IDCON - 201770

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	48
Agriculture to Unknown	0
Agriculture to Natural	24
Natural to Agriculture	34
Natural to Urban	2531
Natural to Unknown	57
Urban to Natural	0
No Change	133438
Total Acreage	133438 136132

**El Dorado Irrigation District (Sly Park Unit) (IDCON-201770)
Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)**

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	25	0	0	0	0	0	0	0	0	0	25
AG-I	0	3776	48	14	0	0	10	0	0	0	3848
URB	0	0	12480	0	0	0	0	0	0	0	12480
BAR	0	21	12	235	0	0	0	0	0	0	268
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	1190	0	0	0	0	1190
GRS	0	0	1458	269	0	0	21813	0	0	0	23540
SHB	0	0	66	0	0	0	2	5918	0	4	5990
WDL	0	12	995	0	0	0	12	0	87716	52	88787
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	25	3809	15059	518	0	1190	21837	5918	87716	56	136128

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

*Note 1 - If no data is submitted to change an element it is made to processes

Note 2 - The habitat types in this matrix will follow the group list of the CVHM classification (Meyer et al. 1988)

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

Note 3 - Acres include Habitat acres with no change

3-11-2004

Banta-Carbona I.D. - IDCON201840

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

DESCRIPTION	TOTAL ACRES
Agriculture to Urban	107
Agriculture to Unknown	0
Agriculture to Natural	32
Natural to Agriculture	0
Natural to Urban	4
Natural to Unknown	0
Urban to Natural	0
No Change	17574
Total Acreage	17697

**Banta-Carbona Irrigation District (IDCON-201840)
Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)**

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	16863	107	0	0	12	0	0	0	0	16982
URB	0	0	674	0	0	0	0	0	0	0	674
BAR	0	0	4	0	0	0	0	0	0	0	4
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	3	0	0	0	0	3
GRS	0	0	0	0	0	0	34	0	0	0	34
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	0	0	0
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	16863	785	0	0	15	34	0	0	0	17697

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: The data is subject to change as refinements are made to production

Note 2: The habitat types in this matrix are based on groupings of the VNRB (November 1994) as of 1988.

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

Note 3: Acres include habitat acres with no change

Broadview W.D. - IDCON201850

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	0
Agriculture to Unknown	2
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	9701
Total Acreage	9703

**Broadview Water District (IDCON-201850)
Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)**

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	9683	0	0	0	0	0	0	0	2	9685
URB	0	0	17	0	0	0	0	0	0	0	17
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	0	0	0	0	0	0
GRS	0	0	0	0	0	0	0	0	0	0	0
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	0	0	0
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	9683	17	0	0	0	0	0	0	2	9702

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made to the database.

Note 2: The habitat types in this matrix are based on groupings of the WMA's (see Appendix 1) as of 1993.

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

Note 3: Unrefined habitat areas with no change.

3/1/2004

Centinella W.D. - IDCON201860

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

DESCRIPTION	TOTAL ACRES
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	1
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	878
Total Acreage	879

Centinella Water District (IDCON-201860)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	801	0	0	0	0	0	0	0	0	801
URB	0	0	0	0	0	0	0	0	0	0	0
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	4	0	0	0	0	4
GRS	0	0	0	0	0	0	74	0	0	0	74
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	0	0	0
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	801	0	0	0	4	74	0	0	0	879

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made to processes.

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

3/2004

Note 2: The habitat types in the maps are listed according to the WUR classification (Meyer et al 1988).

Note 3: Habits indicate Habitat areas with no change.

Del Puerto W.D. - IDCON201890

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

DESCRIPTION	TOTAL ACRES
Agriculture to Urban	206
Agriculture to Unknown	18
Agriculture to Natural	229
Natural to Agriculture	426
Natural to Urban	13
Natural to Unknown	0
Urban to Natural	0
No Change	41793
Total Acreage	43785

**Del Puerto Water District (IDCON-201890)
Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)**

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	44082	206	0	0	0	229	0	0	10	44527
URB	0	0	466	0	0	0	0	0	0	0	466
BAR	0	18	13	33	0	0	29	0	0	0	93
WET	0	0	0	0	23	0	0	0	0	0	23
WAT	0	0	0	0	0	723	6	0	0	0	729
GRS	28	375	0	1	0	0	8338	0	23	0	8765
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	17	0	17
UNK	0	0	0	0	0	0	0	0	0	52	52
Total	28	44475	685	34	23	723	8602	0	40	62	54672

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as information is made available.

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

3/1/2004

Note 2: The subject types in this table are based on Groupings of the Wetland System (Meyer et al., 1992)

Note 3: Data's indicate habitat areas with no change

Eagle Field W.D. - IDCON201900

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	1438
Total Acreage	1438

Eagle Field Water District (IDCON-201900)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	1429	0	0	0	0	0	0	0	0	1429
URB	0	0	0	0	0	0	0	0	0	0	0
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	9	0	0	0	0	9
GRS	0	0	0	0	0	0	0	0	0	0	0
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	0	0	0
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	1429	0	0	0	9	0	0	0	0	1438

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made to procedures

Note 2: The habitat types in this matrix are based on groupings of the VNR categories for May 1993 (1993)

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

Note 3: Right indicates habitat acres with no change

Fresno Slough W.D. - IDCON201920

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	21
Agriculture to Unknown	179
Agriculture to Natural	15
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	1101
Total Acreage	1316

Fresno Slough Water District (IDCON-201920)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	1050	21	0	0	14	1	0	0	179	1265
URB	0	0	25	0	0	0	0	0	0	0	25
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	24	0	0	0	0	0	24
WAT	0	0	0	0	0	2	0	0	0	0	2
GRS	0	0	0	0	0	0	0	0	0	0	0
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	0	0	0
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	1050	46	0	24	16	1	0	0	179	1316

Habitat Type in 1993

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made to procedures

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

3/12/04

Note 2: The habitat types in this matrix are based on groundcover from the VHR classification (Version of 1/98).

Note 3: Values indicate number of acres with no change

Habitat Totals in 1993 (acres)

James I.D. - IDCON201950

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	205
Agriculture to Unknown	153
Agriculture to Natural	6
Natural to Agriculture	4
Natural to Urban	1
Natural to Unknown	0
Urban to Natural	0
No Change	26066
Total Acreage	26435

James Irrigation District (IDCON-201950)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	25736	205	0	0	6	0	0	0	153	26100
URB	0	0	207	0	0	0	0	0	0	0	207
BAR	0	0	0	0	0	0	1	0	0	0	1
WET	0	2	0	0	26	0	0	0	0	0	28
WAT	0	0	0	0	0	51	0	0	0	0	51
GRS	0	1	1	0	0	0	45	0	0	0	47
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	0	0	0
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	25739	413	0	26	57	46	0	0	153	26434

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: The data is subject to change as refinements are made to procedures

Note 2: The habitat report for this month are based on a change of the W-R classification (Abbey et al. 1998)

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

Note 3: Areas indicate habitat acres with no change

Laguna W.D. - IDCON201970

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

DESCRIPTION	TOTAL ACRES
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	462
Total Acreage	462

Laguna Water District (IDCON-201970)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	451	0	0	0	0	0	0	0	0	451
URB	0	0	0	0	0	0	0	0	0	0	0
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	3	0	0	0	0	0	3
WAT	0	0	0	0	0	0	0	0	0	0	0
GRS	0	0	0	0	0	0	4	0	0	0	4
SHB	0	0	0	0	0	0	0	3	0	0	3
WDL	0	0	0	0	0	0	0	0	0	0	0
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	451	0	0	3	0	4	3	0	0	461

Habitat Type in 1993

Habitat Totals Existing in 2000 (acres)

Note - This data is subject to change as refinements are made to processes.

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

3-17-2004

Note 2 - The habitat types in this table are based on groupings of the WMR classification (Meyer et al. 1988)

Note 3 - Cells indicate habitat acres with no change

Mercy Springs W.D. - IDCON201980

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	3489
Total Acreage	3489

Mercy Springs Water District (IDCON-201980)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	3467	0	0	0	0	0	0	0	0	3467
URB	0	0	2	0	0	0	0	0	0	0	2
BAR	0	0	0	40	0	0	0	0	0	0	40
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	75	0	0	0	0	75
GRS	0	0	0	0	0	0	4	0	0	0	4
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	0	0	0
UNK	0	0	0	0	0	0	0	0	0	1	1
Total	0	3467	2	40	0	75	4	0	0	1	3589

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made to processes

Note 2: The habitat types in this matrix are based on groupings of the WWB classification (Noyes et al - 1988)

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

3/1/2004

Note 3: Italics indicate habitat acres with no change

Oro Loma W.D. - IDCON202010

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	1096
Total Acreage	1096

Oro Loma Water District (IDCON-202010)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	1090	0	0	0	0	0	0	0	0	1090
URB	0	0	4	0	0	0	0	0	0	0	4
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	1	0	0	0	0	1
GRS	0	0	0	0	0	0	1	0	0	0	1
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	0	0	0
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	1090	4	0	0	1	1	0	0	0	1096

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made to processes.

Note 2: The habitat types in this matrix are based on groupings of the 1993 class location (Meyer et al., 1988).

Note 3: Habitat and code Habitat acres will not change.

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

3/1/2004

**Pajaro Valley WMA (IDCON-203160)
Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)**

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
Habitat Type in 1993	0	0	0	0	0	0	0	0	0	0	0
AG-D	0	40422	0	0	0	0	0	0	0	0	40422
AG-I	0	0	7022	0	0	0	0	0	0	0	7022
URB	0	0	0	938	0	0	0	0	0	0	938
BAR	0	0	0	0	937	0	0	0	0	0	937
WET	0	0	0	0	0	464	0	0	0	0	464
WAT	0	0	0	0	0	0	7356	0	0	0	7356
GRS	0	0	0	0	0	0	0	5702	0	0	5702
SHB	0	0	0	0	0	0	0	0	11307	0	11307
WDL	0	0	0	0	0	0	0	0	0	0	0
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	40422	7022	938	937	464	7356	5702	11307	0	74148

Habitat Totals in 1993 (acres)

Note 1: The values subject to change are indicated by asterisks in the original table.

Habitat Totals Existing in 2000 (acres)

Note 2: The habitat types in this table are based on groupings of the AHW Classification (May 2001).

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

Note 3: Blank indicate upper acres with no change.

Westlands W.D. - IDCON-203220

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

DESCRIPTION	TOTAL ACRES
Agriculture to Urban	263
Agriculture to Unknown	19232
Agriculture to Natural	2375
Natural to Agriculture	692
Natural to Urban	14
Natural to Unknown	468
Urban to Natural	0
No Change	582509
Total Acreage	605555

Westlands Water District (IDCON-203220)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
Habitat Type in 1993	608	0	47	0	0	0	0	0	0	0	655
	0	562394	216	0	29	0	2044	302	0	19232	584217
	0	0	7240	0	0	0	0	0	0	0	7240
	0	0	8	25	0	0	275	0	0	0	308
	0	0	0	0	441	0	0	0	0	60	501
	0	0	0	0	0	1077	0	0	0	0	1077
	0	692	7	0	0	0	5910	0	11	407	7027
	0	0	0	0	0	0	78	2942	0	0	3020
	0	0	0	0	0	0	0	0	1508	0	1508
	0	0	0	0	0	0	0	0	0	0	0
Total	608	563086	7518	25	470	1077	8307	3244	1519	19699	605553

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made to processes

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

Note 2: The habitat types in this table are based on groupings of the WHR classification (Meyer et al., 1999)

Note 3: Values represent Habitat Acres with no change

Santa Clara Valley - IDCON-202845

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	812
Agriculture to Unknown	0
Agriculture to Natural	50
Natural to Agriculture	0
Natural to Urban	546
Natural to Unknown	0
Urban to Natural	6
No Change	834211
Total Acreage	835605

**Santa Clara Valley Water District (IDCON-202845)
Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)**

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	60815	812	0	0	0	30	0	0	0	61657
URB	0	0	183429	0	0	0	6	0	0	0	183435
BAR	0	0	0	1601	0	0	0	0	0	0	1601
WET	0	0	0	0	3118	0	0	0	0	0	3118
WAT	0	0	0	0	0	16665	0	0	0	0	16665
GRS	0	0	535	0	0	0	199674	0	0	0	200209
SHB	0	0	0	1	0	0	8	108189	0	0	108198
WDL	0	0	11	0	0	0	0	0	260711	0	260722
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	60815	184787	1602	3118	16665	199718	108189	260711	0	835605

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Note 1: The data is subject to change as refinements are made to procedures.

Note 2: The habitat types in 1993 include all coverages of the 1988 classification (May 1988).

Note 3: Fields include habitat status with no change.

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

3/20/04

Patterson W.D. - IDCON202040

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

DESCRIPTION	TOTAL ACRES
Agriculture to Urban	8
Agriculture to Unknown	0
Agriculture to Natural	13
Natural to Agriculture	0
Natural to Urban	10
Natural to Unknown	0
Urban to Natural	0
No Change	13754
Total Acreage	13785

Landcover/Landuse Change (1993-2000, acres)
 Patterson W.D. IDCON-202040

2000 CVHM LANDCOVER/LANDUSE

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	1584	8	0	0	0	10	0	2	0	13584
URB	0	0	127	0	0	0	0	0	0	0	127
BAR	0	0	0	2	0	0	0	0	0	0	2
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	4	0	0	0	0	4
GRS	0	0	10	0	0	0	48	0	0	0	58
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	10	0	10
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	13564	145	2	0	4	58	0	12	0	13785

1993 CVHM LANDCOVER/LANDUSE

1993

2000

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland
 SHB - Shrubland WET - Wetland

3/14/2003

Note: This data is subject to change as information is made available for processing.

Plain View W.D. - IDCON202050

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	135
Agriculture to Unknown	0
Agriculture to Natural	2
Natural to Agriculture	0
Natural to Urban	96
Natural to Unknown	0
Urban to Natural	0
No Change	6917
Total Acreage	7144

**Plainview Water District (IDCON-202050)
Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)**

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	5596	135	0	0	0	2	0	0	0	5733
URB	0	0	442	0	0	0	0	0	0	0	442
BAR	0	0	26	74	0	0	0	0	0	0	100
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	16	0	0	0	0	18
GRS	0	0	70	0	0	8	772	0	0	0	850
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	0	0	0
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	5596	673	74	0	26	774	0	0	0	7143

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made in processes

Note 2: The habitat types in this matrix are based on the changes of the WHM classifier (Meyer et al., 1988)

Note 3: Values include 1 habitat acres with no change

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland
 SHB - Shrubland WET - Wetland

Reclamation District 1606 - IDCON202070

USBR/FWS Central Valley Habitat Monitoring program

Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	0
Agriculture to Unknown	10
Agriculture to Natural	0
Natural to Agriculture	13
Natural to Urban	0
Natural to Unknown	4
Urban to Natural	0
No Change	313
Total Acreage	360

Reclamation District 1606 (IDCON-202070)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
Habitat Type in 1993	0	0	0	0	0	0	0	0	0	0	0
	0	270	0	0	0	0	0	0	0	30	300
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	39	0	0	0	0	4	43
	0	0	0	0	0	3	0	0	0	0	3
	0	13	0	0	0	0	1	0	0	0	14
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
Total	0	283	0	0	39	3	1	0	0	34	360

Habitat Type in 1993

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as reclamation is made to processes.

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

3/1/2005

Note 2: The habitat types in this matrix are based on groupings of the habitat classification (Meyn et al. 1985).

Note 3: Acres outside habitat acres with no change.

Habitat Totals in 1993 (acres)

San Joaquin Valley National Cemetery IDCON 202095

USBR/FWS Central Valley Habitat Monitoring Program

Land Cover Change Report 1993 - 2000

DESCRIPTION	TOTAL ACRES
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	325
Total Acreage	325

**Vet. Affairs San Joaquin National Cemetery (IDCON-202095)
Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)**

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	0	0	0	0	0	0	0	0	0	0
URB	0	0	3	0	0	0	0	0	0	0	3
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	0	0	0	0	0	0
GRS	0	0	0	0	0	0	321	0	0	0	321
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	0	0	0
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	3	0	0	0	321	0	0	0	324

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Note 1: This data is subject to change as refinements are made to procedures.

3/1/2004

Habitat Totals Existing in 2000 (acres)

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland
 SHB - Shrubland WET - Wetland

Note 2: The habitat types in this matrix are based on grouse type of the water classification (Meyer et al. 1988)

Note 3: Acres include habitat acres with no change

The West Side I.D. - IDCON202120

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	147
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	6832
Total Acreage	6979

The West Side Irrigation District (IDCON-202120)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	6145	147	0	0	0	0	0	0	0	6292
URB	0	0	687	0	0	0	0	0	0	0	687
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	0	0	0	0	0	0
GRS	0	0	0	0	0	0	0	0	0	0	0
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	0	0	0
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	6145	834	0	0	0	0	0	0	0	6979

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 2: The habitat types in the matrix are based on groupings of the West Coast Water Agency et al. (1988)

Note 3: Italics indicate habitat areas with no change

Note 1: This data is subject to change as referer cells are made to projections

- AG-D - Agriculture (Dryland) UNK - Unknown
- AG-I - Agriculture (Irrigated) URB - Urban areas
- BAR - Barren WAT - Water
- GRS - Grassland WDL - Woodland

Coelho Family Trust IDCON202130

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	0
Agriculture to Unknown	167
Agriculture to Natural	49
Natural to Agriculture	2
Natural to Urban	0
Natural to Unknown	19
Urban to Natural	0
No Change	3253
Total Acreage	3500

Coehlo Family Trust (IDCON-202130)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	2182	0	0	49	0	0	0	0	167	2398
URB	0	0	0	0	0	0	0	0	0	0	0
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	388	0	11	0	0	23	422
WAT	0	0	0	0	0	87	0	0	0	6	93
GRS	0	2	0	0	0	0	585	0	0	0	587
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	0	0	0
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	2184	0	0	437	87	596	0	0	196	3500

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made to protocols.

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

Note 2: The habitat types in the map above are based on groupings of the Webb classification (Meyer et al. 1988).

Note 3: Acres not shown are acres with no change.

City of Tracy - IDCON202135

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	1464
Agriculture to Unknown	0
Agriculture to Natural	12
Natural to Agriculture	0
Natural to Urban	107
Natural to Unknown	0
Urban to Natural	0
No Change	7570
Total Acreage	9093

Tracy, City of (IDCON-202135)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	2350	1404	0	0	12	0	0	0	0	3766
URB	0	0	5016	0	0	0	0	0	0	0	5016
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	28	0	0	0	0	28
GRS	0	0	107	0	0	0	176	0	0	0	283
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	0	0	0
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	2350	6527	0	0	40	176	0	0	0	9093

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made to procedures

Note 2: The habitat types in this matrix are based on groupings of the WARS classification (Meyer et al. 1988).

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

3/1/2004

Note 3: Italics indicate habitat areas with no change

Tranquillity I.D. - IDCON202140

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	69
Agriculture to Unknown	842
Agriculture to Natural	0
Natural to Agriculture	1
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	9684
Total Acreage	10596

Tranquillity Irrigation District (IDCON-202140)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	9520	69	0	0	0	0	0	0	842	10431
URB	0	0	148	0	0	0	0	0	0	0	148
BAR	0	0	0	0	0	0	3	0	0	0	3
WET	0	0	0	0	1	0	1	0	0	0	2
WAT	0	1	0	0	0	11	0	0	0	0	12
GRS	0	0	0	0	0	0	0	0	0	0	0
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	0	0	0
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	9521	217	0	1	11	4	0	0	842	10596

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made to procedures.

Note 2: The habitat types in the tables are based on ground maps of the W-15 class number (Meyer et al. 1989)

Note 3: Italics indicate habitat areas with no change.

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland
 SHB - Shrubland WET - Wetland

Melvin Hughes - IDCON201940

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

DESCRIPTION	TOTAL ACRES
Agriculture to Urban	1
Agriculture to Unknown	18
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	110
Total Acreage	129

Tranquillity PUD (formerly Hughes, Melvin) (IDCON-201940)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
Habitat Type in 1993	0	0	0	0	0	0	0	0	0	0	0
AG-D	0	110	1	0	0	0	0	0	0	18	129
AG-I	0	0	0	0	0	0	0	0	0	0	0
URB	0	0	0	0	0	0	0	0	0	0	0
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	0	0	0	0	0	0
GRS	0	0	0	0	0	0	0	0	0	0	0
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	0	0	0
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	110	1	0	0	0	0	0	0	18	129

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: The data is subject to change as refinements are made to processes

Note 2: The habitat types in the totals are based on groupings of the 1993 classification (May 2004, 10/04)

- AG-D - Agriculture (Dryland)
- AG-I - Agriculture (Irrigated)
- BAR - Barren
- GRS - Grassland
- SHB - Shrubland
- UNK - Unknown
- URB - Urban areas
- WAT - Water
- WDL - Woodland
- WET - Wetland

3/1/2004

Note 3: Italics indicate habitat items with no change

West Stanislaus I.D. - IDCON202180

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	49
Agriculture to Unknown	12
Agriculture to Natural	3
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	22433
Total Acreage	22502

West Stanislaus Irrigation District (IDCON-202180)
Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	22337	49	0	0	0	8	0	0	12	22406
URB	0	0	73	0	0	0	0	0	0	0	73
BAR	0	0	0	3	0	0	0	0	0	0	3
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	1	0	0	0	0	1
GRS	0	0	0	0	0	0	19	0	0	0	19
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	1	0	1
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	22337	122	3	0	1	27	0	1	12	22503

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1. The data is subject to change by refinements and made to processes

Note 2. The habitat types in this matrix are based on groupings of the WHFI classification (Mayr et al. 1988)

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland
 SHB - Shrubland WET - Wetland

3/12/04

Note 3. It is ex nihilo habitat acres with no change

Widren W.D. - IDCON202192

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	881
Total Acreage	881

Widren Water District (IDCON-202192)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	782	0	0	0	0	0	0	0	0	782
URB	0	0	0	0	0	0	0	0	0	0	0
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	84	0	0	0	0	0	84
WAT	0	0	0	0	0	15	0	0	0	0	15
GRS	0	0	0	0	0	0	0	0	0	0	0
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	0	0	0
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	782	0	0	84	15	0	0	0	0	881

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made to procedures

Note 2: The habitat types in this matrix are based on groupings of the WHR classification (Neyer et al. 1988).

- AG-D - Agriculture (Dryland)
- AG-I - Agriculture (Irrigated)
- BAR - Barren
- GRS - Grassland
- SHB - Shrubland
- UNK - Unknown
- URB - Urban areas
- WAT - Water
- WDL - Woodland
- WET - Wetland

Note 3: Blank indicates habitat acres with no change

3/1/2004

Lewis Creek W. D. IDCON202420

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	1297
Total Acreage	1297

Lewis Creek Water District (IDCON-202420)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
Habitat Type in 1993	0	0	0	0	0	0	0	0	0	0	0
AG-D	0	1273	0	0	0	0	0	0	0	0	1273
AG-I	0	0	24	0	0	0	0	0	0	0	24
URB	0	0	0	0	0	0	0	0	0	0	0
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	0	0	0	0	0	0
GRS	0	0	0	0	0	0	0	0	0	0	0
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	0	0	0
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	1273	24	0	0	0	0	0	0	0	1297

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made to procedures.

Note 2: The habitat types in this matrix are based on groupings of the 1993 classification (Meyer et al. 2002).

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

Note 3: Areas indicated in habitat matrix with no change

SACRAMENTO RIVER DIVISION

Summary of 1993 - 2000 Conversions of Natural Land by Water Service Area (Acres)

IDCON#	WSA NAME	WSA ACRES	Natural Landcover 1993	Natural Landcover 2000	Natural - Other (1993-2000)	Other - Natural (1993 - 2000)	Percent of Natural Loss or Gain	Natural Landcover Change per WSA	Natural - Ag.	Natural - Urban	Natural - Unknown
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
Total									148	27	162

11/6/03

Tulare, County of (IDCON-204600)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	23	51404	267	0	12	6	1796	0	0	0	53508
URB	0	0	14641	0	0	0	0	0	0	0	14641
BAR	0	0	0	110	0	0	0	0	0	0	110
WET	0	0	0	0	196	0	0	0	0	0	196
WAT	0	0	0	0	0	308	0	0	0	0	308
GRS	0	20	0	0	6	0	2634	0	0	0	2660
SHB	0	0	0	0	0	0	0	142	0	0	142
WDL	0	0	0	0	0	0	0	0	121	0	121
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	23	51424	14908	110	214	314	4430	142	121	0	71686

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made to processes

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

3/1/2004

Note 2: The habitat types in this report are based on groupings of the WHR classification (Vegetation, 1988).

Note 3: Data exclude riparian areas with no change

Corning W.D. IDCON-202690

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	66
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	11
Natural to Unknown	0
Urban to Natural	0
No Change	12857
Total Acreage	12934

**Coming Water District (IDCON-202690)
Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)**

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	136	0	0	0	0	0	0	0	0	0	136
AG-I	0	10921	66	0	0	0	0	0	0	0	10987
URB	0	0	125	0	0	0	0	0	0	0	125
BAR	0	0	0	76	0	0	0	0	0	0	76
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	14	0	0	0	0	14
GRS	0	0	11	0	0	0	1334	0	0	0	1345
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	251	0	251
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	136	10921	202	76	0	14	1334	0	251	0	12934

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as information is processed

Note 2: The habitat report in this report are based on groupings for the WHR classification (Beyer et al., 1987)

- AG-D - Agriculture (Dryland) UNK - Unknown
- AG-I - Agriculture (Irrigated) URB - Urban areas
- BAR - Barren WAT - Water
- GRS - Grassland WDL - Woodland

Note 3: Totals include transfer acres with no change

Proberta W.D. IDCON-202720

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	4
Agriculture to Unknown	0
Agriculture to Natural	38
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	2893
Total Acreage	2935

**Proberta Water District (IDCON-202720)
Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)**

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	2490	4	0	0	0	38	0	0	0	2532
URB	0	0	13	0	0	0	0	0	0	0	13
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	0	0	0	0	0	0
GRS	0	0	0	0	0	0	334	0	0	0	334
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	56	0	56
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	2490	17	0	0	0	372	0	56	0	2935

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as information is made to processors

Note 2: The habitat types in this table are based on groups of the Water Classification (Meyer et al. 1988)

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

Note 3: Acres of each habitat acres with no change

3/1/2004

Thomes Creek W.D. IDCON-202740

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	58
Agriculture to Unknown	0
Agriculture to Natural	3
Natural to Agriculture	0
Natural to Urban	13
Natural to Unknown	0
Urban to Natural	0
No Change	2320
Total Acreage	2372

Thames Creek Water District (IDCON-202740)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
Habitat Type in 1993	0	0	0	0	0	0	0	0	0	0	0
AG-D	0	1810	38	0	0	0	0	0	0	0	1848
AG-I	0	0	15	0	0	0	0	0	0	0	15
URB	0	0	0	22	0	0	0	0	0	0	22
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	0	0	0	0	0	0
GRS	0	0	13	0	0	0	453	0	0	0	466
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	20	0	20
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	1810	66	22	0	0	453	0	20	0	2371

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made to procedures

Note 2: The habitat totals in this table are based on groupings of the WHD classified on January 1st, 1993

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

3/12/2004

Note 3: Totals include habitat acres with no change

Habitat Totals in 1993 (acres)

Habitat Type in 1993

Colusa County W.D. IDCON-202770

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	22
Agriculture to Unknown	0
Agriculture to Natural	957
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	167
Urban to Natural	0
No Change	44700
Total Acreage	45846

Colusa County Water District (IDCON-202770)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAI	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	48012	22	0	1532	0	0	0	0	0	49566
URB	0	0	593	0	0	0	0	0	0	0	593
BAR	0	0	0	25	0	0	0	0	0	0	25
WET	0	0	0	0	0	0	0	0	0	0	0
WAI	0	13	0	0	0	935	0	0	0	0	948
GRS	0	0	0	0	0	0	2711	0	0	365	3076
SHB	0	0	0	0	0	0	0	48	0	0	48
WDL	0	0	0	0	0	0	0	0	292	0	292
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	48025	615	25	1532	935	2711	48	292	365	54548

Habitat Type in 1993

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made to boundaries.

Note 2: The habitat types in this table are based on groupings of the WHIC classification (http://www.cwrh.com)

Note 3: Cells indicate habitat acres with no change.

- AG-D - Agriculture (Dryland)
- AG-I - Agriculture (Irrigated)
- BAR - Barren
- GRS - Grassland
- URB - Urban areas
- WAT - Water
- WDL - Woodland
- UNK - Unknown

Habitat Totals in 1993 (acres)

CORTINA W.D. IDCON202772

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	3
Natural to Agriculture	0
Natural to Urban	3
Natural to Unknown	0
Urban to Natural	0
No Change	613
Total Acreage	613

**Cortina Water District (IDCON-202772)
Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)**

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	381	0	0	0	0	0	0	0	0	381
URB	0	0	0	0	0	0	0	0	0	0	0
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	0	0	0	0	0	0
GRS	0	0	0	0	0	0	232	0	0	0	232
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	0	0	0
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	381	0	0	0	0	232	0	0	0	613

Habitat Type in 1993

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made to processes.

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

2/1/2004

Note 2: The habitat types in this matrix are based on groupings of the WWF classification (Peyer et al., 1988).

Note 3: Totals indicate Habitat acres with no change.

Habitat Totals in 1993 (acres)

Davis W.D. (TC) IDCON-202776

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	1016
Total Acreage	1016

Davis Water District (IDCON-202776)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

Habitat Type in 1993	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	1016	0	0	0	0	0	0	0	0	1016
URB	0	0	0	0	0	0	0	0	0	0	0
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	0	0	0	0	0	0
GRS	0	0	0	0	0	0	0	0	0	0	0
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	0	0	0
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	1016	0	0	0	0	0	0	0	0	1016

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note - This data is subject to change as refinements are made to quantities

Note 2 - The habitat types in this matrix are based on groupings of the 20113 classification (Vogel et al. 1988).

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

Note 3 - Rows indicate habitat acres with no change

Dunnigan W.D. IDCON - 202778

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	10737
Total Acreage	10737

Landcover/Landuse Change (1993-2000, acres)
Dunnigan W.D. IDCON-202778

2000 CVHM LANDCOVER/LANDUSE

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	6	0	0	0	0	0	0	0	0	0	6
AG-I	0	10484	0	0	0	0	0	0	0	0	10484
URB	0	0	135	0	0	0	0	0	0	0	135
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	11	0	0	0	0	11
GRS	0	0	0	0	0	0	87	0	0	0	87
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	34	0	34
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	6	10484	135	0	0	11	87	0	34	0	10757

1993

2000

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URH - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland
 SHB - Shrubland WET - Wetland

Note: This table is subject to
 changes in methodology
 over the 2000 classes

1993 CVHM LANDCOVER/LANDUSE

Four-M W.D. IDCON202779

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

DESCRIPTION	TOTAL ACRES
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	17581
Total Acreage	17581

4-M Water District (IDCON-202779)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	1866	0	0	0	0	0	0	0	0	1866
URB	0	0	0	0	0	0	0	0	0	0	0
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	16	0	0	0	0	0	16
GRS	0	0	0	0	0	0	4368	0	0	0	4368
SHB	0	0	0	0	0	0	0	277	0	0	277
WDL	0	0	0	0	0	0	0	0	9093	0	9093
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	1866	0	0	0	16	4368	277	9093	0	15620

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made to processes.

Note 2: The total types in this matrix are based on groupings of the WATS classification (Neyer et al., 2002).

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

Note 3: Acres include future acres with no change.

3-1-2004

Glide W.D. IDCON - 202780

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	3
Agriculture to Unknown	40
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	9375
Total Acreage	9421

Glide Water District (IDCON-202780)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
Habitat Type in 1993	0	9176	3	0	0	0	0	0	0	0	0
	0	9176	3	0	0	0	0	0	0	43	9222
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	199	0	0	0	199
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
Total	0	9176	3	0	0	0	199	0	0	43	9421

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: 2000 data is subject to change as refinements are made in processing

Note 2: The habitat types in the matrix are based on groupings of the W-R classification (Meyer et al., 1990)

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

Note 3: Blank indicates habitat acres with no change

Glenn Valley W.D. IDCON202782

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	1975
Total Acreage	1975

Glenn Valley Water District (IDCON-202782)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
Habitat Type in 1993	0	0	0	0	0	0	0	0	0	0	0
	0	1955	0	0	0	0	0	0	0	0	1955
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	20	0	0	0	20
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
Total	0	1955	0	0	0	0	20	0	0	0	1975

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made to procedures.

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

Note 2: The habitat types in the multi-year mapped polygons of the 1993 classification (Map# 05-1-1993)

Note 3: Acres include habitat areas with no change

Holthouse W.D. IDCON202786

USBR/FWS Central Valley Habitat Monitoring Program

Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	1
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	1492
Total Acreage	1493

Holthouse Water District (IDCON-202786)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
Habitat Type in 1993	0	0	0	0	0	0	0	0	0	0	0
AG-D	0	1331	0	0	0	0	0	0	0	0	1331
AG-I	0	0	0	0	0	0	0	0	0	0	0
URB	0	0	0	0	0	0	0	0	0	0	0
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	0	0	0	0	0	0
GRS	0	1	0	0	0	0	661	0	0	0	662
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	0	0	0
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	1332	0	0	0	0	661	0	0	0	1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made to processes.

Note 2: The habitat types in this system are based on a survey of the CVHM class system (Boyer et al., 1998).

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

Note 3: Italics indicate habitat areas with no change.

Kanawha W.D. IDCON-202790

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	15
Agriculture to Unknown	375
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	4
Natural to Unknown	0
Urban to Natural	0
No Change	16129
Total Acreage	16519

**Kanawha Water District (IDCON-202790)
Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)**

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	15632	15	0	0	0	0	0	0	375	16022
URB	0	0	112	0	0	0	0	0	0	0	112
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	1	0	0	0	0	1
GRS	0	0	0	0	0	0	384	0	0	0	384
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	0	0	0
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	15632	127	0	0	1	384	0	0	375	16519

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made to processes

Note 2: The habitat types in this matrix are based on groupings of the WHM classification (Meyer et al., 1988)

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

Note 3: Values indicate habitat extent with no change

Kirkwood W.D. IDCON - 202800

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	1151
Total Acreage	1151

**Kirkwood Water District (IDCON-202800)
Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)**

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
Habitat Type in 1993	0	0	0	0	0	0	0	0	0	0	0
	0	1141	0	0	0	0	0	0	0	0	1141
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	10	0	0	0	10
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
Total	0	1141	0	0	0	0	10	0	0	0	1151

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made in processes.

Note 2: The habitat types in this matrix are based on groupings of the Webb classification (May 1998).

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

3/17/04

Note 3: Exact habitat totals seem with change.

La Grande W.D. IDCON -202810

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	1471
Total Acreage	1471

La Grande Water District (IDCON-202810)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
Habitat Type in 1993	0	0	0	0	0	0	0	0	0	0	0
AG-D	0	1471	0	0	0	0	0	0	0	0	1471
AG-I	0	0	0	0	0	0	0	0	0	0	0
URB	0	0	0	0	0	0	0	0	0	0	0
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	0	0	0	0	0	0
GRS	0	0	0	0	0	0	0	0	0	0	0
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	0	0	0
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	1471	0	0	0	0	0	0	0	0	1471

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made in processing.

Note 2: The habitat types in this table are based on groupings of the 1996 Classification System of the USFWS (Carpenter, Meyer et al., 1998).

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

Note 3: Blank cells indicate habitat types with no change.

Myers Marsh Mutual Water Company IDCON202815

ESBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	282
Total Acreage	282

**Myers-Marsh MWC (IDCON-202815)
Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)**

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	221	0	0	0	0	0	0	0	0	221
URB	0	0	60	0	0	0	0	0	0	0	60
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	0	0	0	0	0	0
GRS	0	0	0	0	0	0	0	0	0	0	0
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	0	0	0
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	221	60	0	0	0	0	0	0	0	281

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This table is subject to change as field work and data processing

Note 2: The habitat types in this table are based on groupings of the NVC classifications (Meyer et al. 2001)

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - water
 GRS - Grassland WDL - Woodland

Note 3: Lakes include habitat acres with no change

3/1/2004

Orland-Artois W.D. IDCON-202820

USBR/FWS Central Valley Habitat Monitoring Program

Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	33
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	146
Natural to Urban	3
Natural to Unknown	0
Urban to Natural	0
No Change	3118
Total Acreage	3129

**Orland-Artois Water District (IDCON-202820)
Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)**

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	17	0	0	0	0	0	0	0	0	0	17
AG-I	0	29930	32	0	0	0	0	0	0	0	29962
URB	0	0	110	0	0	0	0	0	0	0	110
BAR	0	0	0	12	0	0	0	0	0	0	12
WET	0	0	0	0	1	0	0	0	0	0	1
WAT	0	27	0	0	0	38	0	0	0	0	65
GRS	1	119	3	0	0	0	930	0	0	0	1053
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	82	0	82
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	18	30076	145	12	1	38	930	0	82	0	31302

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made to procedures

Note 2: The habitat types in this matrix are based on groupings of the WWF class system (Noyes et al. 1996)

- AG-D - Agriculture (Dryland) UNK - Unknown
- AG-I - Agriculture (Irrigated) URB - Urban areas
- BAR - Barren WAT - Water
- GRS - Grassland WDL - Woodland

5/1/2004

Note 3: Blank indicates habitat acres with no change

Westside W.D. IDCON - 202834

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	17716
Total Acreage	17716

**Westside Water District (IDCON-202834)
Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)**

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
<i>Habitat Type in 1993</i>	0	0	0	0	0	0	0	0	0	0	0
AG-D	0	16437	0	0	0	0	0	0	0	0	16437
AG-I	0	0	0	0	0	0	0	0	0	0	0
URB	0	0	0	0	0	0	0	0	0	0	0
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	8	0	0	0	0	8
GRS	0	0	0	0	0	0	1187	0	0	0	1187
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	84	0	84
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	16437	0	0	0	8	1187	0	84	0	17716

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made to process data.

Note 2: The habitat types in this report are based on groupings of the VHM classification (Meyer et al. 1988).

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

Note 3: Habitat not in 2000 - acres with no change

Feather River W.S.A.- IDCON202890

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	8241
Total Acreage	8241

Feather Water District (IDCON-202890)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	8204	0	0	0	0	0	0	0	0	8204
URB	0	0	16	0	0	0	0	0	0	0	16
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	7	0	0	0	0	0	7
WAT	0	0	0	0	0	0	0	0	0	0	0
GRS	0	0	0	0	0	0	0	0	0	0	0
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	14	0	14
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	8204	16	0	7	0	0	0	14	0	8241

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made to polygons.

Note 2: The habitat types in this table are based on groupings of the WTR classification (Meyer et al., 1998).

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

3/1/2004

Note 3: Later tabular habitat acres with no change.

SHASTA DIVISION (Interim Contracts)

Summary of 1993 - 2000 Conversions of Natural Land by Water Service Area (Acres)

IDCON#	WSA NAME	WSA ACRES	Natural Landcover 1993	Natural Landcover 2000	Natural - Other (1993-2000)	Other - Natural (1993 - 2000)	Percent of Natural Loss or Gain	Natural Landcover Change Per WSA	Natural - Ag.	Natural - Urban	Natural - Unknown
203129	Shasta Lake-City of	6984	5302	5291	11	0	-0.21%	-0.16%	0	11	0
203126	Mountain Gate C.S.D.	4012	3739	3738	0	0	0.00%	0.00%	0	0	0
203127	Shasta Co.W.A.	1558	1245	1245	0	0	0.00%	0.00%	0	0	0
Total		12554	10286	10275	11	0	-0.11%	-0.09%	0	11	0

10/31/03

City of Shasta Lake W.S.A. IDCON - 203129

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	11
Natural to Unknown	0
Urban to Natural	0
No Change	6973
Total Acreage	6984

Shasta Lake, City of (IDCON-203129)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	0	0	0	0	0	0	0	0	0	0
URB	0	0	1581	0	0	0	0	0	0	0	1581
BAR	0	0	0	74	0	0	0	0	0	0	74
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	10	0	0	0	0	10
GRS	0	0	0	0	0	0	180	0	0	0	180
SHB	0	0	0	0	0	0	0	369	0	0	369
WDL	0	0	11	0	0	0	8	0	1986	0	2005
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	1592	74	0	10	188	369	1986	0	4219

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made to processes

Note 2: The habitat types in this table are based on principles of the NWIC classification (May et al. 1988)

Note 3: Values indicate habitat acres w/ no change

- AG-D - Agriculture (Dryland) UNK - Unknown
- AG-I - Agriculture (Irrigated) URB - Urban areas
- BAR - Barren WAT - Water
- GRS - Grassland WDL - Woodland

Mountain Gate C.S.D. IDCON-203126

USBR/FWS Central Valley Habitat Monitoring Program

Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	4012
Total Acreage	4012

Mountain Gate CSD (IDCON-203126)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
Habitat Type in 1993	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	272	0	0	0	0	0	0	0	272
	0	0	0	101	0	0	0	0	0	0	101
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	522	0	0	0	522
	0	0	0	0	0	0	0	323	0	0	323
	0	0	0	0	0	0	0	0	2794	0	2794
	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	272	101	0	0	522	323	2794	0	4012

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as determinations are made to processes

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

Note 2: The habitat types in the table are listed in groups of the valley classification (Weyer et al. 1988)

Note 3: Blank indicate Habitat acres with no change

Shasta Co. Water Agency IDCON - 203127

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	1558
Total Acreage	1558

Shasta County Water Agency (IDCON-203127)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	0	0	0	0	0	0	0	0	0	0
URB	0	0	312	0	0	0	0	0	0	0	312
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	4	0	0	0	0	4
GRS	0	0	0	0	0	0	35	0	0	0	35
SHB	0	0	0	0	0	0	0	124	0	0	124
WDL	0	0	0	0	0	0	0	0	1083	0	1083
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	312	0	0	4	35	124	1083	0	1558

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as references are made to processes

Note 2: The habitat types in this matrix are based on groupings of the North Classification (Meyer et al., 1988)

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

Note 3: Blank indicate habitat areas with no change

TRINITY RIVER DIVISION (Interim Contracts)

Summary of 1993 - 2000 Conversions of Natural Land by Water Service Area (Acres)

IDCON#	WSA NAME	WSA ACRES	Natural Landcover 1993	Natural Landcover 2000	Natural - Other (1993-2000)	Other - Natural (1993 - 2000)	Percent of Natural Loss or Gain	Natural Landcover Change per WSA	Natural - Ag.	Natural - Urban	Natural - Unknown
203078	Shasta C.S.D.	6708	6631	6631	0	0	0.00%	0.00%	0	0	0
203090	Clear Creek C.S.D.	29939	27862	27859	3	0	-0.01%	-0.01%	0	3	0
203110	Bella Vista	33932	29400	29337	63	0	-0.21%	-0.19%	27	36	0
Total		70579	63893	63827	66	0	-0.10%	-0.09%	27	39	0

10/31/03

Shasta C.S.D. IDCON - 203078

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

DESCRIPTION	TOTAL ACRES
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	6708
Total Acreage	6708

**Shasta CSD (IDCON-203078)
Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)**

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	0	0	0	0	0	0	0	0	0	0
URB	0	0	77	0	0	0	0	0	0	0	77
BAR	0	0	0	61	0	0	0	0	0	0	61
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	0	0	0	0	0	0
GRS	0	0	0	0	0	0	58	0	0	0	58
SHB	0	0	0	0	0	0	0	2553	0	0	2553
WDL	0	0	0	0	0	0	0	0	3959	0	3959
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	77	61	0	0	58	2553	3959	0	6708

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1 - This data is subject to change as refinements are made to processes

Note 2 - The habitat type in this matrix are based on groupings of the WH-2 classification (Leyer et al 1988)

Note 3 - Data indicates about acres with no change

- AG-D - Agriculture (Dryland) UNK - Unknown
- AG-I - Agriculture (Irrigated) URB - Urban areas
- BAR - Barren WAT - Water
- GRS - Grassland WDL - Woodland

Clear Creek C.S.D. - ICON203090

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

DESCRIPTION	TOTAL ACRES
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	13073
Total Acreage	13073

Clear Creek CSD (IDCON-203090)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	1556	0	0	0	0	0	0	0	0	1556
URB	0	0	405	0	0	0	0	0	0	0	405
BAR	0	0	0	121	0	0	0	0	0	0	121
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	3	0	0	0	0	3
GRS	0	0	0	0	0	0	1839	0	0	0	1839
SHB	0	0	0	0	0	0	0	841	0	0	841
WDL	0	0	0	0	0	0	0	0	9267	0	9267
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	1556	405	121	0	3	1839	841	9267	0	14032

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This table is subject to change as refinements are made in processes

Note 2: The habitat types in this table are based on geotags of the VHR classification (Meyer et al. 1998)

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

Note 3: Cells indicate habitat acres with no change

3/1/2004

Bella Vista W.D. IDCON-203110

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

DESCRIPTION	TOTAL ACRES
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	27
Natural to Urban	76
Natural to Unknown	0
Urban to Natural	0
No Change	33869
Total Acreage	33932

Bella Vista Water District (IDCON-203110)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	2277	0	0	0	0	0	0	0	0	2277
URB	0	0	2256	0	0	0	0	0	0	0	2256
BAR	0	13	0	33	0	0	0	0	0	0	46
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	243	0	0	0	0	243
GRS	0	14	0	0	0	0	5951	0	0	0	5965
SHB	0	0	0	0	0	0	0	690	0	0	690
WDL	0	0	36	0	0	0	0	0	22420	0	22456
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	2304	2292	33	0	243	5951	690	22420	0	33933

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made to processes.

Note 2: The habitat types in this report are based on a comparison of the WMR classification (Myer et al., 1988).

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

Note 3: Values indicated in bold letters with no change.

COLUSA BASIN DRAIN (Interim Contracts)
Summary of 1993 - 2000 Conversions of Natural Land by Water Service Area (Acres)

IDCON#	WSA NAME	WSA ACRES	Natural Landcover 1993	Natural Landcover 2000	Natural - Other (1993-2000)	Other - Natural (1993-2000)	Percent of Natural Loss or Gain	Natural Landcover Change per WSA	Natural - Ag.	Natural - Urban	Natural - Unknown
202875	Colusa Drain M.W.C.	37349	798	947	143	382	18.67%	9.40%	0	0	143
Total		37349	798	947	143	382	18.67%	9.40%	0	0	143

10/31/03

Colusa Drain MWC - 202875-IDCON

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	0
Agriculture to Unknown	87
Agriculture to Natural	298
Natural to Agriculture	6
Natural to Urban	0
Natural to Unknown	113
Urban to Natural	0
No Change	36820
Total Acreage	37350

**Colusa Drain MWC (IDCON-202875)
Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)**

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	36134	0	0	298	0	0	0	0	83	36515
URB	0	0	36	0	0	0	0	0	0	0	36
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	366	0	0	0	0	143	509
WAT	0	0	0	0	0	230	0	0	0	0	230
GRS	0	6	0	0	0	0	50	0	0	0	56
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	3	0	3
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	36140	36	0	664	230	50	0	3	226	37349

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as field reports are made to processors

Note 2: The habitat types in this matrix was based on groupings of the WMA class revision 1/2000 as of 1993

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

Note 3: Zeros indicate habitat areas with no change

Fresno, County of IDCON 202325

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	5924
Total Acreage	5924

Fresno, County of (IDCON-202325)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
Habitat Type in 1993	AG-D	0	0	0	0	0	0	0	0	0	0
	AG-I	0	0	0	0	0	0	0	0	0	0
	URB	0	107	0	0	0	0	0	0	0	107
	BAR	0	0	0	0	0	0	0	0	0	0
	WET	0	0	0	0	0	0	0	0	0	0
	WAT	0	0	0	0	3	0	0	0	0	3
	GRS	0	0	0	0	0	1575	0	0	0	1575
	SHB	0	0	0	0	0	0	36	0	0	36
	WDL	0	0	0	0	0	0	0	2203	0	2203
	UNK	0	0	0	0	0	0	0	0	0	0
Total		0	107	0	0	3	1575	36	2203	0	3924

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made to processes.

Note 2: The habitat types in this matrix are based on groupings of the WWA classifier (Meyer et al., 2002).

Note 3: Values indicate habitat acres with no change.

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

Hills Valley L.D.-Amendatory - IDCON-202350

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	4558
Total Acreage	4558

Kern-Tulare W.D. - 202385 IDCON

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

DESCRIPTION	TOTAL ACRES
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	21853
Total Acreage	21853

Kern-Tulare Water District (IDCON-202385)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-0	AG-1	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-1	0	20827	0	0	0	0	0	0	0	0	20827
URB	0	0	21	0	0	0	0	0	0	0	21
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	46	0	0	0	0	46
GRS	0	0	0	0	0	0	960	0	0	0	960
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	0	0	0
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	20827	21	0	0	46	960	0	0	0	21854

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made to procedures

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-1 - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

3/1/2004

Note 2: The habitat types in this table are based on a change of the land classification (Meyer et al., 1988)

Note 3: Values are data as of 3/1/2004 and may change

Lower Tule River ID - 202460 IDCON

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	15
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	45
Urban to Natural	0
No Change	103683
Total Acreage	103743

**Lower Tule River Irrigation District (IDCON-202460)
Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)**

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	164	0	0	0	0	0	0	0	0	0	164
AG-I	707	96287	15	0	0	0	0	0	0	0	97009
URB	0	0	1538	0	0	0	0	0	0	0	1538
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	432	0	0	0	0	0	432
WAT	0	0	0	0	0	726	0	0	0	45	771
GRS	0	0	0	0	0	0	3793	0	0	0	3793
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	36	0	36
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	871	96287	1553	0	432	726	3793	0	36	45	103743

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Note 1: This data is subject to change as refinements are made to procedures

Note 2: The habitat types in this matrix are based on groupings of the 1988 Census Bureau (Mayo et al. 1988)

Note 3: Dashes indicate data for 2000 were not change

Habitat Totals Existing in 2000 (acres)

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

Pixley ID - 202500 IDCON

USBR/EWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	88
Agriculture to Industrial	6
Agriculture to Natural	10
Natural to Agriculture	13
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	69863
Total Acreage	69974

**Pixley Irrigation District (IDCON-202500)
Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)**

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	97	0	0	0	0	0	0	0	0	0	97
AG-I	240	62253	88	0	0	0	10	0	0	0	62591
URB	0	0	882	0	0	0	0	0	0	0	882
BAR	0	0	0	56	0	0	0	0	0	0	56
WET	0	0	0	0	776	0	0	0	0	0	776
WAT	0	0	0	0	0	128	0	0	0	0	128
GRS	0	13	0	0	0	0	5427	0	0	0	5440
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	4	0	4
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	337	62266	970	56	776	128	5437	0	4	0	69974

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This grid is subject to change as refinements are made to procedures.

Note 2: The habitat types in the maps are based on grouping of the WMS classification (Meyer et al., 1988).

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

3/1/2004

Note 3: Values indicate Habitat Acres with no change.

Rag Gulch W.D. - 202520 IDCON

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	5998
Total Acreage	5998

Rag Gulch Water District (IDCON-202520)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	0	5968	0	0	0	0	0	0	0	0	5968
URB	0	0	14	0	0	0	0	0	0	0	14
BAR	0	0	0	0	0	0	0	0	0	0	0
WET	0	0	0	0	0	0	0	0	0	0	0
WAT	0	0	0	0	0	16	0	0	0	0	16
GRS	0	0	0	0	0	0	0	0	0	0	0
SHB	0	0	0	0	0	0	0	0	0	0	0
WDL	0	0	0	0	0	0	0	0	0	0	0
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	0	5968	14	0	0	16	0	0	0	0	5998

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note: This data is subject to change as refinements are made to procedures.

Note 2: The habitat types in the matrix are based on groupings of the Water Classification (Meyer et al., 1996)

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

Note 3: Values indicate total acres with no change

Tri-Valley W.D. - IDCON-202600

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

<u>DESCRIPTION</u>	<u>TOTAL ACRES</u>
Agriculture to Urban	0
Agriculture to Unknown	0
Agriculture to Natural	0
Natural to Agriculture	0
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	2901
Total Acreage	2901

Tri-Valley Water District (IDCON-202600)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
Habitat Type in 1993	0	0	0	0	0	0	0	0	0	0	0
	0	2070	0	0	0	0	0	0	0	0	2070
	0	0	2	0	0	0	0	0	0	0	2
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	707	0	0	0	707
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	122	0	122
	0	0	0	0	0	0	0	0	0	0	0
Total	0	2070	2	0	0	0	707	0	122	0	2901

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements to the CVHM are processed.

Note 2: The habitat types in this matrix are listed in groupings of the 1993 classification (they are not all 1993).

Note 3: Habits - no Core Habitat areas with no change.

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

County of Tulare IDCON - 204600

USBR/FWS Central Valley Habitat Monitoring Program Land Cover Change Report 1993 - 2000

DESCRIPTION	TOTAL ACRES
Agriculture to Urban	267
Agriculture to Unknown	0
Agriculture to Natural	1814
Natural to Agriculture	20
Natural to Urban	0
Natural to Unknown	0
Urban to Natural	0
No Change	69581
Total Acreage	71686

Tulare, County of (IDCON-204600)
 Central Valley Habitat Monitoring (CVHM), Habitat Change From 1993 To 2000 (acres)

Habitat Type Existing in 2000

	AG-D	AG-I	URB	BAR	WET	WAT	GRS	SHB	WDL	UNK	Total
AG-D	0	0	0	0	0	0	0	0	0	0	0
AG-I	23	51404	267	0	12	6	1796	0	0	0	53508
URB	0	0	14641	0	0	0	0	0	0	0	14641
BAR	0	0	0	110	0	0	0	0	0	0	110
WET	0	0	0	0	196	0	0	0	0	0	196
WAT	0	0	0	0	0	308	0	0	0	0	308
GRS	0	20	0	0	6	0	2634	0	0	0	2660
SHB	0	0	0	0	0	0	0	142	0	0	142
WDL	0	0	0	0	0	0	0	0	121	0	121
UNK	0	0	0	0	0	0	0	0	0	0	0
Total	23	51424	14908	110	214	314	4430	142	121	0	71686

Habitat Type in 1993

Habitat Totals in 1993 (acres)

Habitat Totals Existing in 2000 (acres)

Note 1: This data is subject to change as refinements are made to procedures

AG-D - Agriculture (Dryland) UNK - Unknown
 AG-I - Agriculture (Irrigated) URB - Urban areas
 BAR - Barren WAT - Water
 GRS - Grassland WDL - Woodland

3/1/2004

Note 2: The habitat types in this matrix are based on groupings of the NHR Classification (Meyer et al., 1990)

Note 3: Italics indicate Habitat areas with no change