

Bair, Lucas/SAC

From: Steve Pavich [steve.pavich@cardno.com]
Sent: Friday, January 27, 2012 1:29 PM
To: Bair, Lucas/SAC
Subject: FW: NODOS - IMPLAN
Attachments: NODOS FS_Econ Data_v12 (EIR Support).xlsx; Landuse4SocioEcon_NODOS_IMPLAN.xlsx; NODOS Econ_RED_Assumptions (10-20-11).docx

Hi Lucas

Per our conversation... Please let me know if you have any questions.

Steve

Steve Pavich

Senior Project Economist

Cardno ENTRIX

701 University Avenue, Suite 200, Sacramento, CA 95825

Phone: 916 923 1097 **Direct:** 916 386 3842 **Fax:** 916 923 6251

From: Steve Pavich
Sent: Tuesday, December 06, 2011 3:19 PM
To: 'Sou, Sean'; 'Fatuma.Yusuf@CH2M.com'; Stephen.Hatchett@CH2M.com
Cc: 'Herrin, Jeff'; Duane Paul
Subject: NODOS - IMPLAN

Hi Sean,

I've completed the additional IMPLAN modeling for the NODOS project. The additional runs I completed covered the following:

- Construction analysis run through the statewide model
 - Same as the "local" analysis except using the state model
- Agricultural impacts for lands affected by the Project run through both the two-county (local) and statewide models
 - Permanent impacts cover lands underlying the reservoir and project facilities
 - Short-term impacts cover lands underlying temporary construction areas
 - For more details, see write-up by Amy Lyons, DWR GIS staff (Sean should have that e-mail)

I'm attaching here a summary Excel spreadsheet that includes all of the work I've completed for the Feasibility Study, which I augmented with the new model runs. The worksheets are labeled so you should be able to find what you're looking for – the second worksheet has the new modeling results for the EIR. I'm also attaching the supporting spreadsheet for the new AG analysis, as well as the RED summary that we discussed back at our meeting in October. I'm also sending by mail the IMPLAN models that I've been working with (I will send the CD directly to Fatuma).

Please let me know if you have any questions.

Thanks,
Steve

Steve Pavich

Senior Project Economist

Cardno ENTRIX

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Land Use To be Taken out of Production Permanently									
Glenn County Land Use	Proxy Crop	IMPLAN Code	Value/Acre (\$2010)	Alt A. (acres)	Value (\$)	Alt B. (acres)	Value (\$)	Alt C. (acres)	Value (\$)
Native vegetation	Pasture-range	10	\$6.72	3,980.7	\$26,741	3,980.7	\$26,741	3,980.7	\$26,741
SimiAg - Incidental to Ag	Not applicable	--	\$0	11.2	\$0	11.2	\$0	11.2	\$0
Urban Vacant	Not applicable	--	\$0	14.1	\$0	14.1	\$0	14.1	\$0
Sub-Total	--	--	--	4,006.0	\$26,741	4,006.0	\$26,741	4,006.0	\$26,741
Colusa County Land Use	Proxy Crop	IMPLAN Code	Value/Acre (\$2010)	Alt A. (acres)	Value (\$)	Alt B. (acres)	Value (\$)	Alt C. (acres)	Value (\$)
Deciduous	Almonds	5	\$3,637	16.1	\$58,433	9.1	\$33,250	16.1	\$58,433
Field Crops	Wheat	2	\$563	69.5	\$39,116	69.5	\$39,116	69.5	\$39,116
Grain & Hay	Hay-alfalfa	10	\$988	566.8	\$559,773	566.8	\$559,773	566.8	\$559,773
Idle	Not applicable	--	\$0	29.4	\$0	29.4	\$0	29.4	\$0
Native vegetation	Pasture-range	10	\$10.07	21,133.6	\$212,889	21,130.9	\$212,861	21,133.6	\$212,889
Pasture	Pasture-irrigated	10	\$155	138.8	\$21,474	138.8	\$21,474	138.8	\$21,474
Rice	Rice	2	\$1,878	153.9	\$288,970	153.9	\$288,970	153.9	\$288,970
Riparian Vegetation	Not applicable	--	\$0	120.6	\$0	120.8	\$0	120.6	\$0
SimiAg - Incidental to Ag	Not applicable	--	\$0	27.1	\$0	27.1	\$0	27.1	\$0
Truck Crops	Tomatoes-processing	3	\$3,469	94.0	\$326,083	94.0	\$326,083	94.0	\$326,083
Urban	Not applicable	--	\$0	18.2	\$0	18.2	\$0	18.2	\$0
Urban Industrial	Not applicable	--	\$0	11.3	\$0	11.3	\$0	11.3	\$0
Urban Vacant	Not applicable	--	\$0	50.2	\$0	50.1	\$0	50.2	\$0
Sub-Total	--	--	--	22,429.4	\$1,506,737	22,419.9	\$1,481,526	22,429.4	\$1,506,737
Permanent Land Use Disturbance - Total Acreage	--	--	--	26,435.4	\$1,533,478	26,425.9	\$1,508,267	26,435.4	\$1,533,478
				26,435.4	\$1,533,478	26,425.9	\$1,508,267	26,435.4	\$1,533,478

Land Use To be Taken out of Production Temporarily									
Glenn County Land Use	Proxy Crop	IMPLAN Code	Value/Acre (\$2010)	Alt A. (acres)	Value (\$)	Alt B. (acres)	Value (\$)	Alt C. (acres)	Value (\$)
Native vegetation	Pasture-range	10	\$6.72	99.3	\$667	99.3	\$667	99.3	\$667
SimiAg - Incidental to Ag	Not applicable	--	\$0	1.2	\$0	1.2	\$0	1.2	\$0
Urban Vacant	Not applicable	--	\$0	0.8	\$0	0.8	\$0	0.8	\$0
Sub-Total	--	--	--	101.3	\$667	101.3	\$667	101.3	\$667
Colusa County Land Use	Proxy Crop	IMPLAN Code	Value/Acre (\$2010)	Alt A. (acres)	Value (\$)	Alt B. (acres)	Value (\$)	Alt C. (acres)	Value (\$)
Deciduous	Almonds	5	\$3,637	123.8	\$450,144	123.8	\$450,144	123.8	\$450,144
Field Crops	Wheat	2	\$563	277.5	\$156,251	277.5	\$156,251	277.5	\$156,251
Grain & Hay	Hay-alfalfa	10	\$988	213.6	\$210,970	213.6	\$210,970	213.6	\$210,970
Idle	Not applicable	--	\$0	4.1	\$0	4.1	\$0	4.1	\$0
Native vegetation	Pasture-range	10	\$10.07	293.4	\$2,955	293.4	\$2,955	293.4	\$2,955
Pasture	Pasture-irrigated	10	\$155	329.6	\$50,989	329.6	\$50,989	329.6	\$50,989
Rice	Rice	2	\$1,878	3,082.6	\$5,789,481	3,082.6	\$5,789,481	3,082.6	\$5,789,481
Riparian Vegetation	Not applicable	--	\$0	41.6	\$0	41.6	\$0	41.6	\$0
SimiAg - Incidental to Ag	Not applicable	--	\$0	21.5	\$0	21.5	\$0	21.5	\$0
Truck Crops	Tomatoes-processing	3	\$3,469	124.6	\$432,327	124.6	\$432,327	124.6	\$432,327
Urban Industrial	Not applicable	--	\$0	18.6	\$0	18.6	\$0	18.6	\$0
Urban Vacant	Not applicable	--	\$0	0.5	\$0	0.5	\$0	0.5	\$0
Sub-Total	--	--	--	4,531.5	\$7,093,118	4,531.5	\$7,093,118	4,531.5	\$7,093,118
Temporary Land Use Disturbance - Total Acreage	--	--	--	4,632.8	\$7,093,786	4,632.8	\$7,093,786	4,632.8	\$7,093,786
				4,632.8	\$7,093,786	4,632.8	\$7,093,786	4,632.8	\$7,093,786

CALIFORNIA CONSUMER PRICE INDEX (1955-2011)

ALL ITEMS (1982-1984=100)

Year	Month	All Urban Consumers	Urban Wage-Earners and Clerical Workers
2011	February	230.338	223.663
2010 Annual		226.919	219.714
2010	December	227.487	220.693
2010	October	227.737	220.562
2010	August	227.401	220.109
2010	June	227.113	219.74
2010	April	227.007	219.802
2010	February	225.626	218.299
2009 Annual		224.11	216.292
2009	December	224.349	217.112
2009	October	226.035	218.458
2009	August	225.438	217.743
2009	June	224.994	217.322
2009	April	222.896	214.689
2009	February	222.181	214.017
2008 Annual		224.807	217.648
2008	December	219.775	211.519
2008	October	226.572	219.161
2008	August	228.024	220.946
2008	June	228.324	221.798
2008	April	224.323	217.587
2008	February	221.357	214.121
2007 Annual		217.424	209.876
2007	December	219.593	212.559
2007	October	218.959	211.522
2007	August	217.48	209.663
2007	June	217.404	209.859
2007	April	217.704	210.187
2007	February	214.91	206.994
2006 Annual		210.5	203.3
2006	December	211	203.4
2006	October	211.8	204
2006	August	212	205.2
2006	June	210.9	204.2
2006	April	210.5	203.2
2006	February	207.8	200.4
2005 Annual		202.6	195.9
2005	December	204.2	197.1
2005	October	207.1	200.5
2005	August	203.5	197.1
2005	June	201.3	194.6
2005	April	202	195.5
2005	February	199.1	192.2

Adjustment Factors

2010	1.000	<i>*Base Year</i>
2009	1.013	
2008	1.009	
2007	1.044	
2006	1.078	
2005	1.120	

Study_	County	Acres	crop
2003	Glenn	1324.05178832000	NV
2003	Glenn	0.00076585058	NV
2003	Glenn	2656.61884806000	NV
2003	Glenn	11.23212552540	S1
2003	Glenn	0.01462923265	UV1
2003	Glenn	14.06764052290	UV1
2003	Glenn	0.01214681873	UV1
2003	Glenn	0.33824743488	NW
2003	Glenn	0.16295739837	NW
2003	Glenn	0.07525105443	NW
2003	Glenn	0.36793566815	NW
2003	Glenn	0.40936760847	NW
2003	Glenn	0.36923005587	NW
2003	Glenn	0.28304348937	NW
2003	Glenn	0.47015493363	NW
2003	Glenn	1.00017591479	NW
2003	Glenn	0.27459038486	NW
2003	Glenn	0.33753425183	NW
2003	Glenn	0.15310836564	NW
2003	Glenn	0.01591226958	NW
2003	Glenn	0.01248281932	NW

Decription

Native vegetation

Native vegetation

Native vegetation

SimiAg - Incidental to Ag

Urban Vacant

Urban Vacant

Urban Vacant

Water Surface

Water Surface

Water Surface

Water Surface

Water Surface

Water Surface

Water Surface

Water Surface

Water Surface

Water Surface

Water Surface

Water Surface

Water Surface

Water Surface

STUDY_YEAR	COUNTY	Acres	crop	Decription
2003	Colusa	1.85455688592	D12	Deciduous
2003	Colusa	3.75817332978	D12	Deciduous
2003	Colusa	8.74287382286	D13	Deciduous
2003	Colusa	1.71185943625	D13	Deciduous
2003	Colusa	29.32741863130	F11	Field Crops
2003	Colusa	40.14440653140	F11	Field Crops
2003	Colusa	65.04584334920	G	Grain & Hay
2003	Colusa	17.35028055900	G6	Grain & Hay
2003	Colusa	2.83341296091	G	Grain & Hay
2003	Colusa	22.31926567540	G	Grain & Hay
2003	Colusa	44.99213334330	G	Grain & Hay
2003	Colusa	16.93862428640	G	Grain & Hay
2003	Colusa	35.02631704260	G	Grain & Hay
2003	Colusa	14.71030044140	G	Grain & Hay
2003	Colusa	18.63913850410	G	Grain & Hay
2003	Colusa	1.42865731173	G	Grain & Hay
2003	Colusa	0.93071239015	G	Grain & Hay
2003	Colusa	87.15924660090	G	Grain & Hay
2003	Colusa	223.56474439700	G	Grain & Hay
2003	Colusa	15.83750730310	G	Grain & Hay
2003	Colusa	28.91769396270	I1	Idle
2003	Colusa	0.43649059341	I1	Idle
2003	Colusa	28.60215739840	NV	Native vegetation
2003	Colusa	0.00970044489	NV	Native vegetation
2003	Colusa	0.54002160954	NV	Native vegetation
2003	Colusa	0.00410118277	NV	Native vegetation
2003	Colusa	61.63821644330	NV	Native vegetation
2003	Colusa	11.46895386980	NV	Native vegetation
2003	Colusa	2.11419324525	NV	Native vegetation
2003	Colusa	0.33075288512	NV	Native vegetation
2003	Colusa	23.58719531280	NV	Native vegetation
2003	Colusa	0.07674120005	NV	Native vegetation
2003	Colusa	21.99312817390	NV	Native vegetation
2003	Colusa	974.48568315000	NV	Native vegetation
2003	Colusa	208.33746814200	NV	Native vegetation
2003	Colusa	164.68603906300	NV	Native vegetation
2003	Colusa	977.97073809600	NV	Native vegetation
2003	Colusa	6050.78411785000	NV	Native vegetation
2003	Colusa	8143.80768016000	NV	Native vegetation
2003	Colusa	1548.05164919000	NV	Native vegetation
2003	Colusa	1137.03870116000	NV	Native vegetation
2003	Colusa	1181.80499356000	NV	Native vegetation
2003	Colusa	591.57457296300	NV	Native vegetation
2003	Colusa	0.57799125375	NV	Native vegetation
2003	Colusa	0.21947225586	NV	Native vegetation
2003	Colusa	0.00254819289	NV	Native vegetation

2003	Colusa	3.88069910505	NV	Native vegetation
2003	Colusa	0.62601089898	P3	Pasture
2003	Colusa	7.52401197689	P3	Pasture
2003	Colusa	68.11310824050	P3	Pasture
2003	Colusa	31.23525310150	P3	Pasture
2003	Colusa	31.32844047230	P3	Pasture
2003	Colusa	23.96323039560	R	Rice
2003	Colusa	47.60815281750	R	Rice
2003	Colusa	42.60823774950	R	Rice
2003	Colusa	37.06756417880	R	Rice
2003	Colusa	2.58095363661	R	Rice
2003	Colusa	0.03426557646	R	Rice
2003	Colusa	23.68109643200	NR1	Riparian Vegetation
2003	Colusa	90.75890500770	NR1	Riparian Vegetation
2003	Colusa	4.91324269412	NR1	Riparian Vegetation
2003	Colusa	1.01030773262	NR3	Riparian Vegetation
2003	Colusa	0.23823427706	NR3	Riparian Vegetation
2003	Colusa	0.19139581177	S1	SimiAg - Incidental to Ag
2003	Colusa	2.05353356112	S1	SimiAg - Incidental to Ag
2003	Colusa	1.16238926846	S1	SimiAg - Incidental to Ag
2003	Colusa	0.63822936209	S1	SimiAg - Incidental to Ag
2003	Colusa	5.31752902013	S1	SimiAg - Incidental to Ag
2003	Colusa	1.52047165330	S1	SimiAg - Incidental to Ag
2003	Colusa	4.54487031607	S1	SimiAg - Incidental to Ag
2003	Colusa	3.68394693226	S1	SimiAg - Incidental to Ag
2003	Colusa	1.29333912679	S1	SimiAg - Incidental to Ag
2003	Colusa	1.87343304824	S1	SimiAg - Incidental to Ag
2003	Colusa	1.88163936658	S1	SimiAg - Incidental to Ag
2003	Colusa	0.98321517536	S1	SimiAg - Incidental to Ag
2003	Colusa	1.93977017196	S1	SimiAg - Incidental to Ag
2003	Colusa	4.57039535522	T9	Truck Crops
2003	Colusa	22.21407469670	T10	Truck Crops
2003	Colusa	19.58742128520	T9	Truck Crops
2003	Colusa	32.38163314040	T18	Truck Crops
2003	Colusa	8.83350409478	T10	Truck Crops
2003	Colusa	5.70780143265	T18	Truck Crops
2003	Colusa	0.70901829915	T10	Truck Crops
2003	Colusa	8.49374189010	U	Urban
2003	Colusa	9.74848751507	U	Urban
2003	Colusa	0.02804860884	UI3	Urban Industrial
2003	Colusa	2.42024010474	UI3	Urban Industrial
2003	Colusa	1.46886236983	UI3	Urban Industrial
2003	Colusa	0.29719729067	UI3	Urban Industrial
2003	Colusa	1.55586541530	UI3	Urban Industrial
2003	Colusa	5.51649712157	UI3	Urban Industrial
2003	Colusa	0.41299711330	UV1	Urban Vacant
2003	Colusa	0.09006328339	UV4	Urban Vacant

2003	Colusa	5.19368868225	UV1	Urban Vacant
2003	Colusa	0.02589120392	UV4	Urban Vacant
2003	Colusa	0.58873550699	UV1	Urban Vacant
2003	Colusa	0.79687892494	UV1	Urban Vacant
2003	Colusa	1.07302624424	UV1	Urban Vacant
2003	Colusa	1.50041237784	UV1	Urban Vacant
2003	Colusa	0.52486438036	UV4	Urban Vacant
2003	Colusa	8.48374356475	UV1	Urban Vacant
2003	Colusa	6.24453571793	UV1	Urban Vacant
2003	Colusa	1.51861145316	UV1	Urban Vacant
2003	Colusa	2.77967411048	UV1	Urban Vacant
2003	Colusa	0.33771535141	UV4	Urban Vacant
2003	Colusa	0.08581239323	UV4	Urban Vacant
2003	Colusa	7.88434914512	UV4	Urban Vacant
2003	Colusa	5.12958969502	UV4	Urban Vacant
2003	Colusa	3.02279849720	UV4	Urban Vacant
2003	Colusa	3.86064701116	UV4	Urban Vacant
2003	Colusa	0.64404884816	UV1	Urban Vacant
2003	Colusa	0.03956210390	UV1	Urban Vacant
2003	Colusa	7.47308755454	NW	Water Surface
2003	Colusa	0.26069233195	NW	Water Surface
2003	Colusa	0.88862521707	NW	Water Surface
2003	Colusa	0.20944006688	NW	Water Surface
2003	Colusa	0.30648223977	NW	Water Surface
2003	Colusa	0.60938870751	NW	Water Surface
2003	Colusa	0.61806386245	NW	Water Surface
2003	Colusa	0.52292742577	NW	Water Surface
2003	Colusa	1.06767804004	NW	Water Surface
2003	Colusa	0.41311857371	NW	Water Surface
2003	Colusa	0.90944210159	NW	Water Surface
2003	Colusa	0.66234248377	NW	Water Surface
2003	Colusa	0.81131582790	NW	Water Surface
2003	Colusa	0.23722543603	NW	Water Surface
2003	Colusa	1.36880896890	NW	Water Surface
2003	Colusa	0.48680494899	NW	Water Surface
2003	Colusa	0.16410377838	NW	Water Surface
2003	Colusa	0.16856140934	NW	Water Surface
2003	Colusa	2.47677791809	NW	Water Surface
2003	Colusa	0.27072932394	NW	Water Surface
2003	Colusa	0.79083514247	NW	Water Surface
2003	Colusa	0.06603872694	NW	Water Surface
2003	Colusa	0.11066493199	NW	Water Surface
2003	Colusa	0.38892814707	NW	Water Surface
2003	Colusa	0.46881047330	NW	Water Surface
2003	Colusa	2.93756740931	NW	Water Surface
2003	Colusa	1.80365853707	NW	Water Surface
2003	Colusa	3.32643530049	NW	Water Surface

2003	Colusa	1.13577040656	NW	Water Surface
2003	Colusa	110.12195031800	NW	Water Surface
2003	Colusa	1.62592574712	NW	Water Surface
2003	Colusa	2.21875995288	NW	Water Surface
2003	Colusa	0.89853658169	NW	Water Surface
2003	Colusa	0.30253381001	NW	Water Surface
2003	Colusa	0.39115288869	NW	Water Surface
2003	Colusa	2.02064166708	NW	Water Surface
2003	Colusa	0.31803098830	NW	Water Surface
2003	Colusa	1.91949813878	NW	Water Surface
2003	Colusa	0.36770027943	NW	Water Surface
2003	Colusa	3.93347009449	NW	Water Surface
2003	Colusa	0.49762297624	NW	Water Surface
2003	Colusa	1.32083037509	NW	Water Surface
2003	Colusa	0.86664021829	NW	Water Surface
2003	Colusa	0.49628440209	NW	Water Surface
2003	Colusa	0.27597598743	NW	Water Surface
2003	Colusa	0.20885533523	NW	Water Surface
2003	Colusa	0.72062792687	NW	Water Surface
2003	Colusa	0.45713625248	NW	Water Surface
2003	Colusa	0.29760914439	NW	Water Surface
2003	Colusa	10.42812960150	NW	Water Surface
2003	Colusa	1.45489213742	NW	Water Surface
2003	Colusa	0.48646140466	NW	Water Surface
2003	Colusa	1.64657480749	NW	Water Surface
2003	Colusa	0.17328803627	NW	Water Surface
2003	Colusa	0.25991896568	NW	Water Surface

STUDY_YEAR	COUNTY	Acres	crop	Description
2003	Colusa	1.85455688592	D12	Deciduous
2003	Colusa	3.75817332978	D12	Deciduous
2003	Colusa	3.53008140340	D13	Deciduous
2003	Colusa	29.32741863130	F11	Field Crops
2003	Colusa	40.14440653140	F11	Field Crops
2003	Colusa	65.04584334920	G	Grain & Hay
2003	Colusa	17.35028055900	G6	Grain & Hay
2003	Colusa	2.83341296091	G	Grain & Hay
2003	Colusa	22.31926567540	G	Grain & Hay
2003	Colusa	44.99213334330	G	Grain & Hay
2003	Colusa	16.93862428640	G	Grain & Hay
2003	Colusa	35.02631704260	G	Grain & Hay
2003	Colusa	14.71030044140	G	Grain & Hay
2003	Colusa	18.63913850410	G	Grain & Hay
2003	Colusa	1.42865731173	G	Grain & Hay
2003	Colusa	0.93071239015	G	Grain & Hay
2003	Colusa	87.15924660090	G	Grain & Hay
2003	Colusa	223.56474439700	G	Grain & Hay
2003	Colusa	15.83750730310	G	Grain & Hay
2003	Colusa	28.91769396270	I1	Idle
2003	Colusa	0.43649059341	I1	Idle
2003	Colusa	28.60215739840	NV	Native vegetation
2003	Colusa	0.00970044489	NV	Native vegetation
2003	Colusa	0.54002160954	NV	Native vegetation
2003	Colusa	0.00410118277	NV	Native vegetation
2003	Colusa	61.63821644330	NV	Native vegetation
2003	Colusa	11.46895386980	NV	Native vegetation
2003	Colusa	2.11419324525	NV	Native vegetation
2003	Colusa	0.33075288512	NV	Native vegetation
2003	Colusa	23.58719531280	NV	Native vegetation
2003	Colusa	0.07674120005	NV	Native vegetation
2003	Colusa	21.99312817390	NV	Native vegetation
2003	Colusa	974.48568315000	NV	Native vegetation
2003	Colusa	208.33746814200	NV	Native vegetation
2003	Colusa	164.68603906300	NV	Native vegetation
2003	Colusa	977.97073809600	NV	Native vegetation
2003	Colusa	6050.78411785000	NV	Native vegetation
2003	Colusa	8143.80768016000	NV	Native vegetation
2003	Colusa	1548.05164919000	NV	Native vegetation
2003	Colusa	1137.03870116000	NV	Native vegetation
2003	Colusa	1181.80499356000	NV	Native vegetation
2003	Colusa	591.57457296300	NV	Native vegetation
2003	Colusa	0.11793395419	NV	Native vegetation
2003	Colusa	0.20122879434	NV	Native vegetation
2003	Colusa	0.14848773805	NV	Native vegetation
2003	Colusa	1.49117384117	NV	Native vegetation

2003	Colusa	0.00454698800	NV	Native vegetation
2003	Colusa	0.62601089898	P3	Pasture
2003	Colusa	7.52401197689	P3	Pasture
2003	Colusa	68.11310824050	P3	Pasture
2003	Colusa	31.23525310150	P3	Pasture
2003	Colusa	31.32844047230	P3	Pasture
2003	Colusa	23.96323039560	R	Rice
2003	Colusa	47.60815281750	R	Rice
2003	Colusa	42.60823774950	R	Rice
2003	Colusa	37.06756417880	R	Rice
2003	Colusa	2.58095363661	R	Rice
2003	Colusa	0.03426557646	R	Rice
2003	Colusa	23.68109643200	NR1	Riparian Vegetation
2003	Colusa	90.75890500770	NR1	Riparian Vegetation
2003	Colusa	4.91324269412	NR1	Riparian Vegetation
2003	Colusa	1.29382736572	NR3	Riparian Vegetation
2003	Colusa	0.15325834356	NR3	Riparian Vegetation
2003	Colusa	0.19139581177	S1	SimiAg - Incidental to Ag
2003	Colusa	2.05353356112	S1	SimiAg - Incidental to Ag
2003	Colusa	1.16238926846	S1	SimiAg - Incidental to Ag
2003	Colusa	0.63822936209	S1	SimiAg - Incidental to Ag
2003	Colusa	5.31752902013	S1	SimiAg - Incidental to Ag
2003	Colusa	1.52047165330	S1	SimiAg - Incidental to Ag
2003	Colusa	4.54487031607	S1	SimiAg - Incidental to Ag
2003	Colusa	3.68394693226	S1	SimiAg - Incidental to Ag
2003	Colusa	1.29333912679	S1	SimiAg - Incidental to Ag
2003	Colusa	1.87343304824	S1	SimiAg - Incidental to Ag
2003	Colusa	1.88163936658	S1	SimiAg - Incidental to Ag
2003	Colusa	0.98321517536	S1	SimiAg - Incidental to Ag
2003	Colusa	1.93977017196	S1	SimiAg - Incidental to Ag
2003	Colusa	4.57039535522	T9	Truck Crops
2003	Colusa	22.21407469670	T10	Truck Crops
2003	Colusa	19.58742128520	T9	Truck Crops
2003	Colusa	32.38163314040	T18	Truck Crops
2003	Colusa	8.83350409478	T10	Truck Crops
2003	Colusa	5.70780143265	T18	Truck Crops
2003	Colusa	0.70901829915	T10	Truck Crops
2003	Colusa	8.49374189010	U	Urban
2003	Colusa	9.74848751507	U	Urban
2003	Colusa	0.02804860884	UI3	Urban Industrial
2003	Colusa	2.42024010474	UI3	Urban Industrial
2003	Colusa	1.46886236983	UI3	Urban Industrial
2003	Colusa	0.29719729067	UI3	Urban Industrial
2003	Colusa	1.55586541530	UI3	Urban Industrial
2003	Colusa	5.51649712157	UI3	Urban Industrial
2003	Colusa	0.41299711330	UV1	Urban Vacant
2003	Colusa	0.09006328339	UV4	Urban Vacant

2003	Colusa	5.19368868225	UV1	Urban Vacant
2003	Colusa	0.02589120392	UV4	Urban Vacant
2003	Colusa	0.58873550699	UV1	Urban Vacant
2003	Colusa	0.79687892494	UV1	Urban Vacant
2003	Colusa	1.07302624424	UV1	Urban Vacant
2003	Colusa	1.50041237784	UV1	Urban Vacant
2003	Colusa	0.52486438036	UV4	Urban Vacant
2003	Colusa	8.48374356475	UV1	Urban Vacant
2003	Colusa	6.24453571796	UV1	Urban Vacant
2003	Colusa	1.51861145316	UV1	Urban Vacant
2003	Colusa	2.77967411048	UV1	Urban Vacant
2003	Colusa	0.33771535141	UV4	Urban Vacant
2003	Colusa	0.08581239323	UV4	Urban Vacant
2003	Colusa	7.88434914512	UV4	Urban Vacant
2003	Colusa	5.12958969502	UV4	Urban Vacant
2003	Colusa	3.02279849720	UV4	Urban Vacant
2003	Colusa	3.86064701116	UV4	Urban Vacant
2003	Colusa	0.55008851778	UV1	Urban Vacant
2003	Colusa	0.03309356442	UV4	Urban Vacant
2003	Colusa	7.47308755454	NW	Water Surface
2003	Colusa	0.26069233195	NW	Water Surface
2003	Colusa	0.88862521707	NW	Water Surface
2003	Colusa	0.20944006688	NW	Water Surface
2003	Colusa	0.30648223977	NW	Water Surface
2003	Colusa	0.60938870751	NW	Water Surface
2003	Colusa	0.61806386245	NW	Water Surface
2003	Colusa	0.52292742577	NW	Water Surface
2003	Colusa	1.06767804004	NW	Water Surface
2003	Colusa	0.41311857371	NW	Water Surface
2003	Colusa	0.90944210159	NW	Water Surface
2003	Colusa	0.66234248377	NW	Water Surface
2003	Colusa	0.81131582790	NW	Water Surface
2003	Colusa	0.23722543603	NW	Water Surface
2003	Colusa	1.36880896890	NW	Water Surface
2003	Colusa	0.48680494899	NW	Water Surface
2003	Colusa	0.16410377838	NW	Water Surface
2003	Colusa	0.16856140934	NW	Water Surface
2003	Colusa	2.47677791809	NW	Water Surface
2003	Colusa	0.27072932394	NW	Water Surface
2003	Colusa	0.79083514247	NW	Water Surface
2003	Colusa	0.06603872694	NW	Water Surface
2003	Colusa	0.11066493199	NW	Water Surface
2003	Colusa	0.38892814707	NW	Water Surface
2003	Colusa	0.46881047330	NW	Water Surface
2003	Colusa	2.93756740931	NW	Water Surface
2003	Colusa	1.80365853707	NW	Water Surface
2003	Colusa	3.32643530048	NW	Water Surface

2003	Colusa	1.13577040656 NW	Water Surface
2003	Colusa	110.12195031800 NW	Water Surface
2003	Colusa	1.62592574712 NW	Water Surface
2003	Colusa	2.21875995288 NW	Water Surface
2003	Colusa	0.89853658169 NW	Water Surface
2003	Colusa	0.30253381001 NW	Water Surface
2003	Colusa	0.39115288869 NW	Water Surface
2003	Colusa	2.02064166708 NW	Water Surface
2003	Colusa	0.31803098830 NW	Water Surface
2003	Colusa	1.91949813878 NW	Water Surface
2003	Colusa	0.36770027943 NW	Water Surface
2003	Colusa	3.93347009449 NW	Water Surface
2003	Colusa	0.49762297624 NW	Water Surface
2003	Colusa	1.32083037509 NW	Water Surface
2003	Colusa	0.86664021829 NW	Water Surface
2003	Colusa	0.49628440209 NW	Water Surface
2003	Colusa	0.27597598743 NW	Water Surface
2003	Colusa	0.20885533523 NW	Water Surface
2003	Colusa	0.72062792687 NW	Water Surface
2003	Colusa	0.45713625248 NW	Water Surface
2003	Colusa	0.29760914439 NW	Water Surface
2003	Colusa	10.42812960150 NW	Water Surface
2003	Colusa	1.45489213742 NW	Water Surface
2003	Colusa	0.48646140466 NW	Water Surface
2003	Colusa	0.08244520834 NW	Water Surface
2003	Colusa	0.04479485232 NW	Water Surface
2003	Colusa	0.01206070217 NW	Water Surface

Study_Year	County	Acres	crop	Decription
2003	Glenn	0.02190130602	NV	Native vegetation
2003	Glenn	0.02196570204	NV	Native vegetation
2003	Glenn	99.27540030020	NV	Native vegetation
2003	Glenn	0.02738544914	S1	SimiAg - Incidental to Ag
2003	Glenn	1.17270520438	S1	SimiAg - Incidental to Ag
2003	Glenn	0.06834511931	UV1	Urban Vacant
2003	Glenn	0.06246175748	UV1	Urban Vacant
2003	Glenn	0.53826094323	UV1	Urban Vacant
2003	Glenn	0.12879550907	UV1	Urban Vacant
2003	Glenn	0.10144433329	NW	Water Surface
2003	Glenn	0.10031225470	NW	Water Surface

STUDY_YEAR	COUNTY	Acres	crop	Decription
2003	Colusa	57.07099660910	D13	Deciduous
2003	Colusa	19.91954514620	D13	Deciduous
2003	Colusa	11.42320959200	D13	Deciduous
2003	Colusa	0.42468958624	D13	Deciduous
2003	Colusa	18.42591949730	D13	Deciduous
2003	Colusa	16.51239081790	D13	Deciduous
2003	Colusa	40.37535373580	F6	Field Crops
2003	Colusa	44.57169493860	F2	Field Crops
2003	Colusa	47.22137982540	F10	Field Crops
2003	Colusa	50.58791795810	F10	Field Crops
2003	Colusa	54.90685920900	F10	Field Crops
2003	Colusa	1.27242580688	F11	Field Crops
2003	Colusa	21.05619045830	F11	Field Crops
2003	Colusa	17.47477986900	F12	Field Crops
2003	Colusa	0.04433588656	F10	Field Crops
2003	Colusa	59.75154265820	G6	Grain & Hay
2003	Colusa	22.14468692350	G	Grain & Hay
2003	Colusa	37.18790919540	G6	Grain & Hay
2003	Colusa	87.75136740690	G	Grain & Hay
2003	Colusa	0.13674287783	G	Grain & Hay
2003	Colusa	6.63706811772	G	Grain & Hay
2003	Colusa	4.08463132308	I1	Idle
2003	Colusa	0.04494897560	NV	Native vegetation
2003	Colusa	0.11523229757	NV	Native vegetation
2003	Colusa	1.07412789011	NV	Native vegetation
2003	Colusa	0.11037511884	NV	Native vegetation
2003	Colusa	4.93096360533	NV	Native vegetation
2003	Colusa	0.09408494276	NV	Native vegetation
2003	Colusa	26.71556864600	NV	Native vegetation
2003	Colusa	3.45128690712	NV	Native vegetation
2003	Colusa	85.74955997660	NV	Native vegetation
2003	Colusa	87.80251258720	NV	Native vegetation
2003	Colusa	46.45071743510	NV	Native vegetation
2003	Colusa	0.96554631119	NV	Native vegetation
2003	Colusa	24.12869671070	NV	Native vegetation
2003	Colusa	11.75453746230	NV	Native vegetation
2003	Colusa	24.88720042810	P1	Pasture
2003	Colusa	8.58687590977	P1	Pasture
2003	Colusa	17.80330678200	P1	Pasture
2003	Colusa	36.52029811710	P1	Pasture
2003	Colusa	38.63018395870	P1	Pasture
2003	Colusa	36.76712619940	P1	Pasture
2003	Colusa	32.82656298150	P1	Pasture
2003	Colusa	31.91774022410	P3	Pasture
2003	Colusa	101.70704744400	P1	Pasture
2003	Colusa	152.79903758000	R	Rice

2003	Colusa	0.91471844127 R	Rice
2003	Colusa	0.72677382633 R	Rice
2003	Colusa	36.10357033930 R	Rice
2003	Colusa	73.14452549260 R	Rice
2003	Colusa	24.66315840360 R	Rice
2003	Colusa	44.61860367780 R	Rice
2003	Colusa	12.86137369920 R	Rice
2003	Colusa	74.83577661830 R	Rice
2003	Colusa	74.32968757920 R	Rice
2003	Colusa	18.69733659700 R	Rice
2003	Colusa	18.35380331570 R	Rice
2003	Colusa	17.02472756100 R	Rice
2003	Colusa	18.27260053110 R	Rice
2003	Colusa	153.07278487700 R	Rice
2003	Colusa	62.31747609170 R	Rice
2003	Colusa	96.02534503390 R	Rice
2003	Colusa	5.63924404329 R	Rice
2003	Colusa	74.41271898130 R	Rice
2003	Colusa	37.88142135070 R	Rice
2003	Colusa	8.50694277100 R	Rice
2003	Colusa	31.24585440610 R	Rice
2003	Colusa	35.10665545580 R	Rice
2003	Colusa	20.21465733810 R	Rice
2003	Colusa	44.71556544780 R	Rice
2003	Colusa	64.42245146270 R	Rice
2003	Colusa	68.13860561340 R	Rice
2003	Colusa	39.31976355580 R	Rice
2003	Colusa	33.06104635420 R	Rice
2003	Colusa	35.18807887470 R	Rice
2003	Colusa	35.97026460210 R	Rice
2003	Colusa	28.88723260670 R	Rice
2003	Colusa	35.68789429940 R	Rice
2003	Colusa	35.12327329610 R	Rice
2003	Colusa	34.36761421230 R	Rice
2003	Colusa	35.84795729850 R	Rice
2003	Colusa	53.14002719430 R	Rice
2003	Colusa	0.96535046957 R	Rice
2003	Colusa	0.48273366849 R	Rice
2003	Colusa	1.32738766471 R	Rice
2003	Colusa	149.11763596900 R	Rice
2003	Colusa	73.33794546530 R	Rice
2003	Colusa	0.86305545892 R	Rice
2003	Colusa	91.43958970680 R	Rice
2003	Colusa	0.50832379365 R	Rice
2003	Colusa	1.91894020414 R	Rice
2003	Colusa	75.20796693370 R	Rice
2003	Colusa	73.87253364720 R	Rice

2003	Colusa	146.99948614100	R	Rice
2003	Colusa	22.48332810030	R	Rice
2003	Colusa	23.59426934720	R	Rice
2003	Colusa	23.88418135280	R	Rice
2003	Colusa	25.38319256080	R	Rice
2003	Colusa	22.94847848940	R	Rice
2003	Colusa	25.42821880030	R	Rice
2003	Colusa	22.06246564590	R	Rice
2003	Colusa	22.11857902820	R	Rice
2003	Colusa	27.20765677270	R	Rice
2003	Colusa	27.14159641770	R	Rice
2003	Colusa	21.10098441060	R	Rice
2003	Colusa	22.93146545940	R	Rice
2003	Colusa	43.84532208170	R	Rice
2003	Colusa	39.29138231280	R	Rice
2003	Colusa	108.03575265400	R	Rice
2003	Colusa	115.81660870300	R	Rice
2003	Colusa	115.25412951200	R	Rice
2003	Colusa	122.41308441500	R	Rice
2003	Colusa	4.34775980359	NR5	Riparian Vegetation
2003	Colusa	37.22114787260	NR5	Riparian Vegetation
2003	Colusa	1.24478561277	S1	SimiAg - Incidental to Ag
2003	Colusa	9.76235887752	S3	SimiAg - Incidental to Ag
2003	Colusa	3.80908408461	S1	SimiAg - Incidental to Ag
2003	Colusa	3.01603956725	S1	SimiAg - Incidental to Ag
2003	Colusa	2.21588218416	S1	SimiAg - Incidental to Ag
2003	Colusa	1.48874008876	S1	SimiAg - Incidental to Ag
2003	Colusa	14.87337802450	T9	Truck Crops
2003	Colusa	33.44089949140	T9	Truck Crops
2003	Colusa	37.46469736340	T10	Truck Crops
2003	Colusa	38.85322542720	T9	Truck Crops
2003	Colusa	3.60362475320	UI3	Urban Industrial
2003	Colusa	0.81313458213	UI3	Urban Industrial
2003	Colusa	1.59891332836	UI3	Urban Industrial
2003	Colusa	0.28666688789	UI3	Urban Industrial
2003	Colusa	3.46487964511	UI3	Urban Industrial
2003	Colusa	2.06939901690	UI3	Urban Industrial
2003	Colusa	6.73116443904	UI3	Urban Industrial
2003	Colusa	0.07723182594	UV4	Urban Vacant
2003	Colusa	0.05483888526	UV4	Urban Vacant
2003	Colusa	0.41562224611	UV4	Urban Vacant
2003	Colusa	0.17210149206	NW	Water Surface
2003	Colusa	0.02281183753	NW	Water Surface
2003	Colusa	12.07959907530	NW	Water Surface