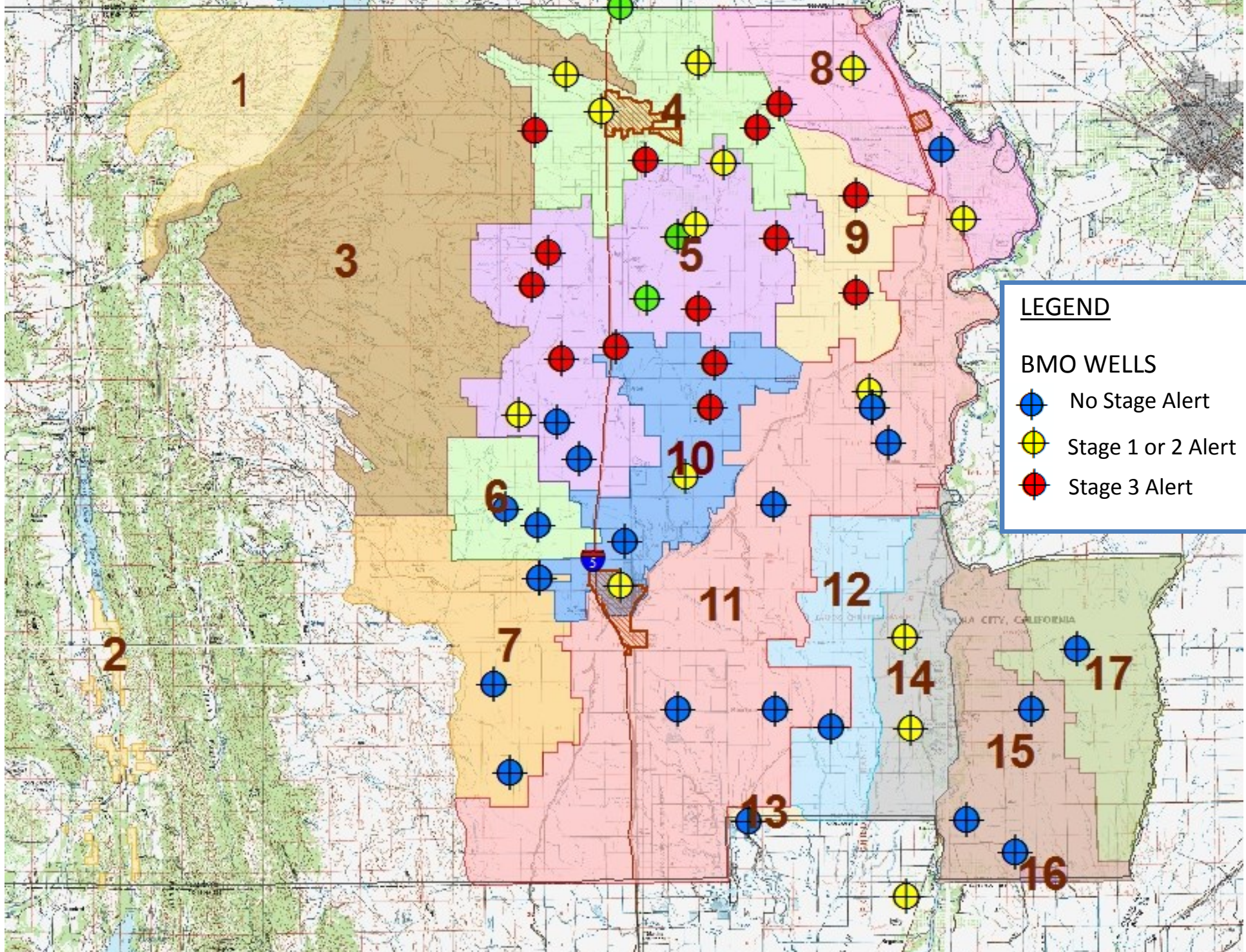


GLENN COUNTY SPRING BMO'S STAGE ALERTS

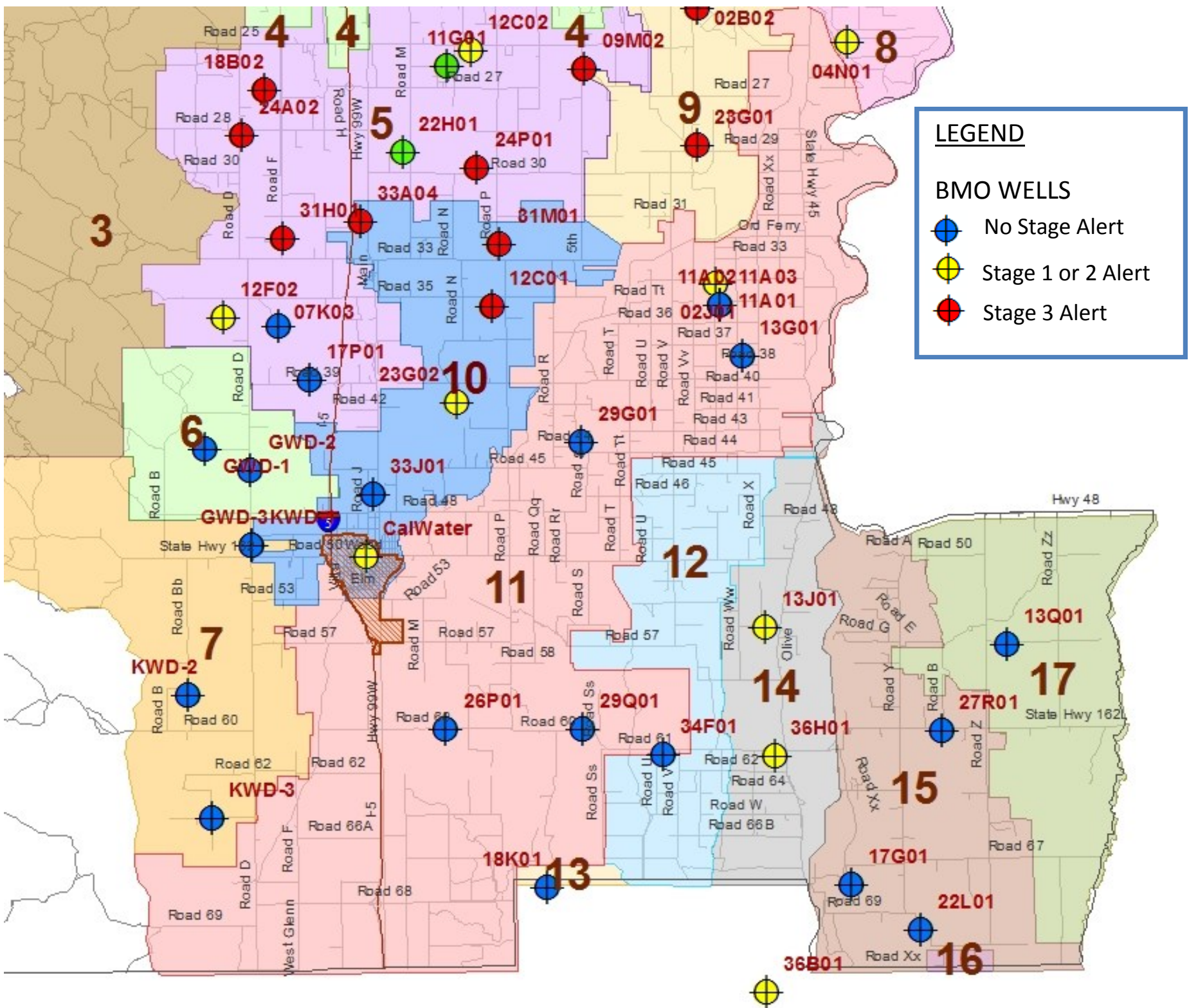
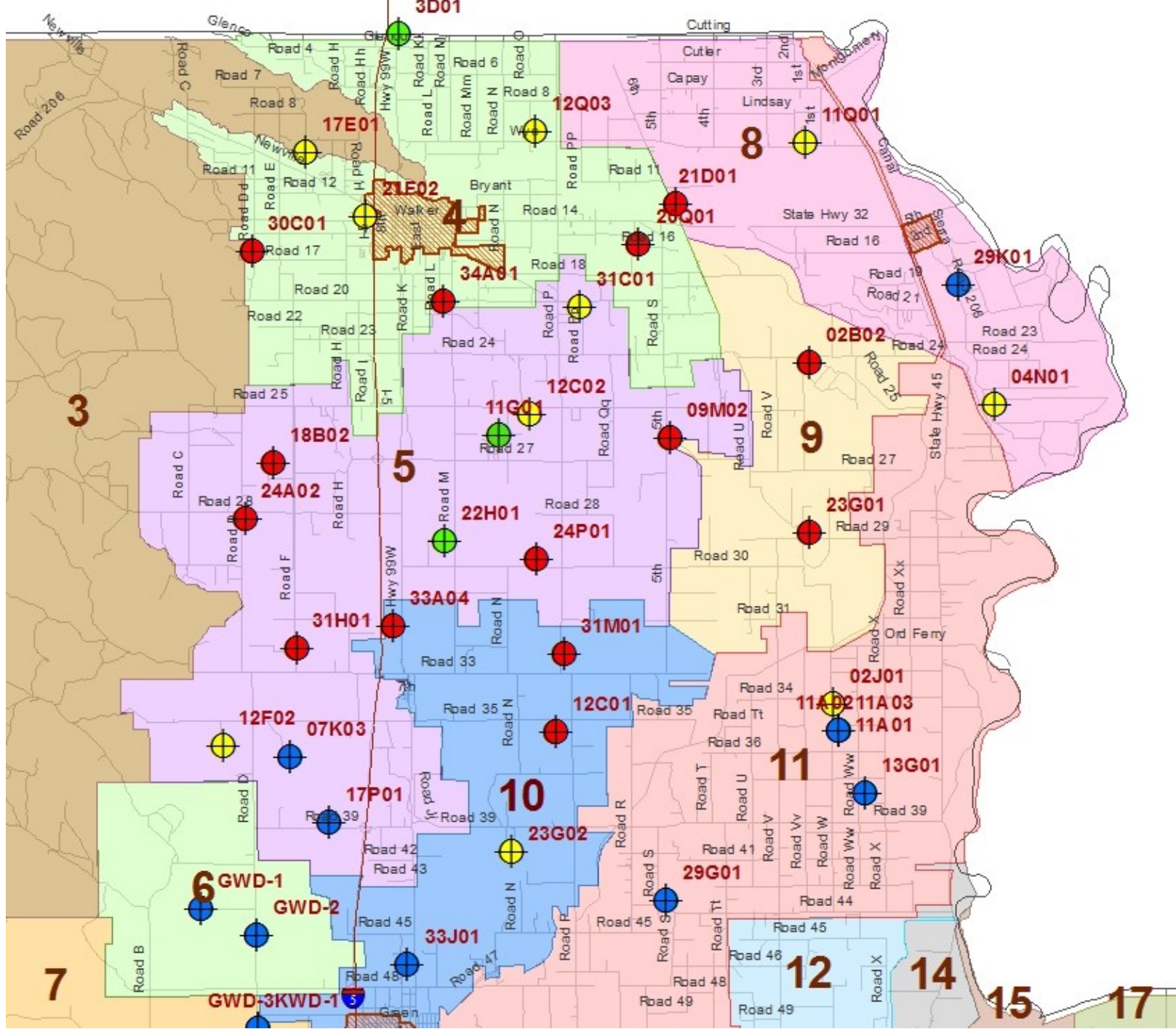
State Well Number	Subarea	Current Year RP to WS	Current RP Elevation	GS Elevation	2014 WSE	2013 WSE	2012 WSE	Stage 1 & 2 Alert	Stage 3 Alert	Difference from 2013 to 2014	Difference from 2012 to 2013
21N03W33A04M	10; BOS Dist 3	68.47	176.45	176.45	107.98	108.09	120.90	131	119.5	-0.1	-12.8
21N02W31M01M	10; BOS Dist 3	45.2	164.53	163.43	119.33	123.93	129.92	131.2	123.8	-4.6	-6.0
20N03W12C01M	10; BOS Dist 3	45.5	162.43	161.43	116.93	124.43	127.53	124.6	117	-7.5	-3.1
20N03W23G02M	10; BOS Dist 3	32.04	149.43	148.43	117.39	121.98	123.15	118	112	-4.6	-1.2
20N03W33J01M	10; BOS Dist 3	16.72	139.74	138.44	123.02	128.02	128.31	113.6	104.7	-5.0	-0.3
CALWater 002-01	10; BOS Dist 3	19	134	134	115	119.33	114	116.1	111.4	-4.3	5.3
21N02W02B02M	9; BOS Dist 5	37.83	163.01	162.56	125.18	136.57	137.01	136.1	130.23	-11.4	-0.4
21N02W09M02M	9; BOS Dist 5	50.5	181.92	181.42	131.42	140.82	143.52	142	132.8	-9.4	-2.7
21N02W23G01M	9; BOS Dist 5	37.8	154.9	154.4	117.1	NM	128.5	125.1	118.7	NA	NA
21N01W04N01M	8; East Corning Basin	23.08	137.68	137.38	114.6	117.38	NM	115.6	112.2	-2.8	NA
22N02W11Q01M	8; East Corning Basin	31.11	166.8	166.4	135.69	137.43	140.9	139.6	133.8	-1.7	-3.5
22N01W29K01M	8; East Corning Basin	20.59	144.88	144.38	124.29	126.52	126.88	119.9	112.7	-2.2	-0.4
21N03W31H01M	5; Orland/Artois	88.94	189.94	189.46	101	107.64	115.54	123.8	106.3	-6.6	-7.9
20N03W07K03M	5; Orland/Artois	48.73	168.46	168.46	119.73	124.06	128.160	118.5	99.9	-4.3	-4.1
20N03W17P01M	5; Orland/Artois	24.3	156.95	155.45	132.65	123.95	136.15	125	110.2	8.7	-12.2
20N04W12F02M	5; Orland/Artois	63.27	189.97	189.47	126.7	132.69	137.84	136.3	115.2	-6.0	-5.2
21N03W18B02M	5; Orland/Artois	141.26	224.48	224.08	83.22	NM	103.960	132.7	113.2	NA	NA
21N04W24A02M	5; Orland/Artois	NM	230.5	230	NM	NM	NM	125.1	107.4	NA	NA
21N04W24A03M	5; Orland/Artois	144.8	231.5	230	86.7	95.62	105.350	125.1	107.4	-8.9	-9.7
22N02W31C01M	5; Orland/Artois	30.72	206.43	205.43	175.71	183.42	181.73	180.1	171.7	-7.7	1.7
21N03W12C02M	5; Orland/Artois	42.8	206.44	204.44	163.64	170.84	170.04	171	163	-7.2	0.8
21N03W11G01M	5; Orland/Artois	NM	202.74	202.44	NM	166.62	166.64	170.1	161.5	NA	0.0
22N03W34A01M	5; Orland/Artois	22.95	235.95	235.45	213	220.84	217.74	217.8	213.5	-7.8	3.1
21N03W22H01M	5; Orland/Artois	NM	204.45	204.45	NM	145.55	149.55	149.9	139.1	NA	-4.0
21N02W09M02M	5; Orland/Artois	50.5	181.92	181.42	131.42	140.82	143.52	142	132.8	-9.4	-2.7
21N03W24P01M	5; Orland/Artois	59	181.08	180.43	122.08	129.58	134.28	135.8	123.7	-7.5	-4.7
22N03W03D01M	4; Orland Unit Water Users Association	NM	270.97	270.47	NM	190.78	193.37	188.7	182.5	NA	-2.6
22N03W17E01M	4; Orland Unit Water Users Association	19.7	284.99	285.49	265.29	270.19	265.39	267.2	263.7	-4.9	4.8
22N03W12Q03M	4; Orland Unit Water Users Association	43.2	232.94	232.44	189.74	196.35	197.29	195.1	188.3	-6.6	-0.9
22N03W21F02M	4; Orland Unit Water Users Association	30.06	265.47	264.47	235.41	243.32	238.37	238.7	234.5	-7.9	4.9
22N03W30C01M	4; Orland Unit Water Users Association	118.65	287.99	287.49	169.34	174.79	178.19	186.6	176.8	-5.4	-3.4
22N02W20Q01M	4; Orland Unit Water Users Association	26.91	201.93	201.43	175.02	186.28	184.71	183.8	179.2	-11.3	1.6
22N02W21D01M	4; Orland Unit Water Users Association	42	200.92	200.42	158.92	174.46	174.63	170.8	164.9	-15.5	-0.2
22N03W34A01M	4; Orland Unit Water Users Association	22.95	235.95	235.45	213	220.84	217.74	217.8	213.5	-7.8	3.1
19N02W29Q01M	11; Glenn-Colusa	2.81	92.42	92.42	89.61	88.27	89.67	85.1	75.1	1.3	-1.4
19N03W26P01M	11; Glenn-Colusa	4.6	103.43	100.43	98.83	100.43	100.47	94.7	89.2	-1.6	0.0
20N02W02J01M	11; Glenn-Colusa	12.01	127.9	127.4	115.89	117.48	120.78	115.9	112.4	-1.6	-3.3
20N02W11A01M	11; Glenn-Colusa	9.75	125.9	125.4	116.15	115.88	116.64	114.6	108	0.3	-0.8
20N02W11A02M	11; Glenn-Colusa	14.97	125.4	125.4	110.43	111.57	113.48	108.7	88.8	-1.1	-1.9
20N02W11A03M	11; Glenn-Colusa	20.42	125.9	125.4	105.48	104.39	107.31	96.5	72.7	1.1	-2.9
20N02W13G01M	11; Glenn-Colusa	5.08	115.8	115.4	110.72	110.06	112.82	107.5	105.6	0.7	-2.8

2014 Spring Groundwater Level — Basin Management Objectives



Spring 2014 Groundwater Levels

Basin Management Objectives



Preliminary Concept: Voluntary Local Groundwater Users Cooperative

With greater cooperation and scheduling, a cooperative groundwater users program could limit the interference from one well to a neighboring well, also limiting the regional combined cone of depression created while many users are pumping at the same time.

The project would include baseline monitoring and data collection, outreach, education, and cooperation from local landowners, a web-based mapping interface and pumping scheduling components. It could potentially open discussions regarding Time of Use with the utility companies. Potential areas could include the western portion of Glenn and Colusa Counties, or the north-eastern portion (Capay region) of Glenn County.

Outreach/Education/Cooperation components would likely include:

- Public meetings
- Individual meetings
- Potential agreements (for well data)
- Program training and testing, registering
- Monitoring groundwater levels (data loggers and manual measurements)
- Feedback mechanism (for interference data, website issues, etc)
- Follow-up
- Time of Use (TOU) issues

The web-based GIS map would include at a minimum:

- Base map (aerial photography?)
- Roads
- scale
- well locations and depths/screening (perhaps by color range: Example-Purple=0-199 ft, Yellow=200-399, Orange=400-699, Red=700+)
- Interactive scheduling components
- Groundwater contours (dynamic or updated weekly or monthly from monitoring data?)

The scheduling component would be incorporated in the map by showing which wells are pumping currently, scheduled, and not scheduled (color coded rings or some other way to visually show). It should also include lengths of time for schedule (dates/time on/time off)

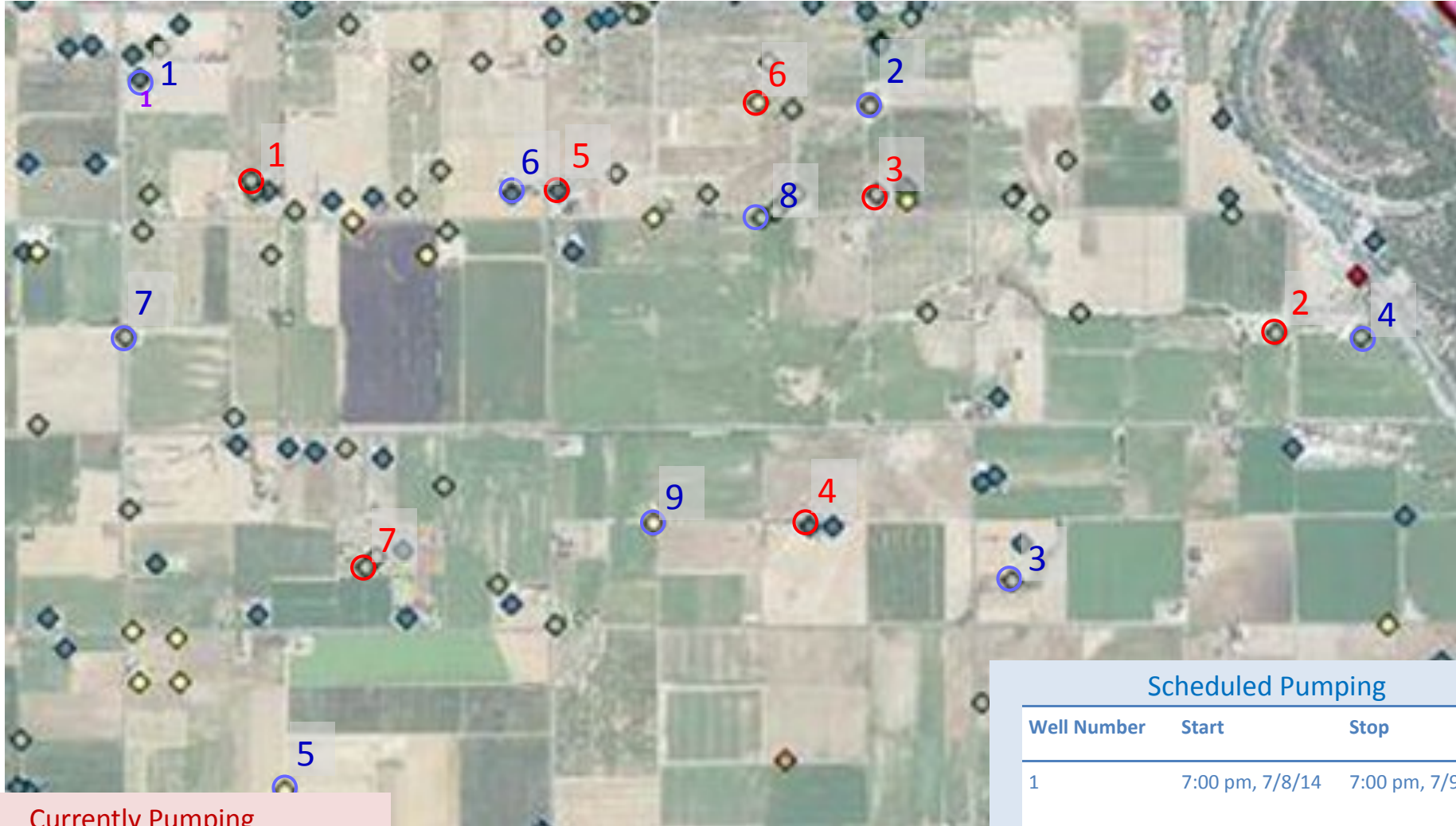
When you hover over the well, the mapping interface could pop up the start date and time/stop date and time (or scheduled start/stop). It could also be listed in tabular form (by id number) on the page for easy reference.

The schedule component should also include a notification to grower (app or phone call notification) when currently pumping wells are scheduled to shut off and next scheduled pumps are ready to turn on.

In addition, it would be helpful for the grower to be able to add additional data to his wells such as pumping depth, flow, energy usage or fuel consumption, etc.

Groundwater contours can be developed prior to implementation, and throughout the implementation phase. These contours can be used for comparison to effectively manage the pumping in the region.

Phase 2 could incorporate a cost study analysis if participants are willing to share additional information. Portions of this study could strengthen the TOU conversations with utility agencies.



Currently Pumping

Well Number	Start	Stop
1	7:00 pm, 7/5/14	7:00 pm, 7/6/14
2	5:00 pm, 7/5/14	8:00 pm, 7/7/14
3	6:00 pm, 7/5/14	6:00 am, 7/6/14
4	4:00 pm, 7/6/14	7:00 pm, 7/7/14
5	3:00 pm, 7/6/14	6:00 am, 7/7/14
6	5:00 pm, 7/6/14	7:00 am, 7/7/14
7	3:00 pm, 7/7/14	7:00 am, 7/8/14

Scheduled Pumping

Well Number	Start	Stop
1	7:00 pm, 7/8/14	7:00 pm, 7/9/14
2	5:00 pm, 7/8/14	8:00 pm, 7/9/14
3	6:00 pm, 7/8/14	6:00 am, 7/9/14
4	4:00 pm, 7/9/14	7:00 pm, 7/10/14
5	3:00 pm, 7/9/14	6:00 am, 7/10/14
6	5:00 pm, 7/9/14	7:00 am, 7/10/14
7	3:00 pm, 7/10/14	7:00 am, 7/11/14
8	5:00 pm, 7/11/14	5:00 pm, 7/12/14
9	6:00 pm, 7/12/14	7:00 am, 7/13/14