

5-022.14 SAN JOAQUIN VALLEY - KERN COUNTY

Basin Boundaries

Summary

The Kern County Subbasin is located at the southern end of the San Joaquin Valley and contains the City of Bakersfield. It is bounded on the west, southwest, and east by the bedrock formations of the coast range, San Emigdio Mountains, and Sierra Nevada, respectively. It is separated from the White Wolf Subbasin on the southeast by the White Wolf Fault. The northern boundary is generally coincident with the County line. The basin boundary is defined by 16 segments detailed in the descriptions below.

Segment Descriptions

<u>Segment Label</u>	<u>Segment Type</u>	<u>Description</u>	<u>Ref</u>
1-2	^I County	Starts at point (1) at the northwestern corner of the basin and follows the Kings-Kern county line to point (2)	{a}
2-3	^E Water Agency	Continues from point (2) and follows the Tulare Lake Drainage District boundary to point (3).	{b}
3-4	^I County	Continues from point (3) follows the Kings-Kern county to point (4).	{a}
4-5	^I County	Continues from point (4) and follows the Tulare-Kern county line to point (5).	{a}
5-6	^I Water Agency	Continues from point (5) follow the Delano-Earlimart Irrigation District boundary to point (6).	{c}
6-7	^I County	Continues from point (6) and follows the Tulare-Kern county line to point (7).	{a}
7-8	^E Non-Alluvial	Continues from point (7) and generally follows the contact between the Quaternary alluvium of the central valley and the older bedrock formations of the foothills to point (8).	{d}
8-9	^I Non-Alluvial	Continues from point (8) and generally follows the contact between the Quaternary alluvium of the central valley and the older bedrock formations of the foothills to point (9).	{d}
9-10	^I Fault	Continues from point (9) follows the White Wolf Fault to point (10).	{e}
10-11	^I Alluvial	Continues from point (10) and connects the White Wolf Fault with the older bedrock formations of Wheeler Ridge at point (11).	{d}
11-12	^E Alluvial	Continues from point (11) and generally follows the contact between the Quaternary alluvium of the central valley and the older bedrock formation of Wheeler Ridge to point (12).	{d}
12-13	^I	Continues from point (12) and connects the older bedrock formations of	{d}

	Alluvial	Wheeler Ridge with the Pleito Fault at point (13).	
13-14	^I Fault	Continues from point (13) and follows the Plieto Thrust Fault to point (14).	{d}
14-15	^E Non-Alluvial	Continues from point (14) and generally follows the contact between the Quaternary alluvium of the central valley and the older bedrock formations of the coast range to point (15).	{d}
15-16	^I Water Agency	Continues from point (15) and follows the Devils Den Water District boundary to point (16).	{c}
16-1	^E Non-Alluvial	Continues from point (16) and follows the contact between the Quaternary alluvium of the central valley and the older bedrock formation of the Kettleman Hills and ends at point (1).	{f}

Significant Coordinates

<u>Point</u>	<u>Latitude</u>	<u>Longitude</u>	
1	35.789223416	-119.883195532	
2	35.790302501	-119.652363375	
3	35.789772628	-119.634978028	
4	35.789571656	-119.537829033	
5	35.790415372	-119.205027122	
6	35.790524785	-119.115821623	
7	35.790398683	-118.930695377	
8	35.132621033	-118.799002273	
9	35.128028693	-118.83696296	
10	35.025843261	-119.000747943	
11	35.023184182	-119.010931867	
12	35.007763418	-119.030598512	
13	35.001385128	-119.04606358	
14	34.995881778	-119.093390928	
15	35.738741811	-119.982451899	
16	35.750071919	-119.947997933	

Map

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<https://sgma.water.ca.gov/webgis/?appid=160718113212&subbasinid=5-022.14>

References

<u>Ref</u>	<u>Citation</u>	<u>Pub Date</u>	<u>Global ID</u>
{a}	California Department of Forestry and Fire Protection (Cal Fire), California Counties and Paired Dataset (cnty15_1).URL: http://frap.fire.ca.gov/data/frapgisdata-subset	2/14/15	2
{b}	Bureau of Land Management (BLM) California State Office (CASO), Public Land Survey System (PLSS), .URL: http://www.geocommunicator.gov/GeoComm/Isis_home/home/index.htm	2016	41
{c}	California Department of Water Resources (DWR), Water Agencies Dataset.URL: https://gis.water.ca.gov/app/bbat/	2016	48
{d}	California Geological Survey (CGS), Geologic Atlas of California Map No. 002, Bakersfield Sheet, 1:250,000, Arthur R. Smith.URL: http://www.quake.ca.gov/gmaps/GAM/bakersfield/bakersfield.html	1964	11
{e}	BBMRS	varies	45
{f}	California Geological Survey (CGS), Geologic Map of California, Geologic Data Map No. 2, C. W. Jennings, C. Gutierrez, W. Bryant, G. Saucedo, and C. Wills.URL: http://maps.conservation.ca.gov/cgs/gmc/	2010	43

Footnotes

- I: Internal
- E: External