Supporting Documentation Drowning Data for Communications Subcommittee

The Data

Regional Summary of Fatal Unintentional/Unknown Intent Drowning, 2018-2021

Region	Number of Fatal Unintentional/Unknown Intent Drowning	Population Size	Crude Rate per 100,000
Non-SJV	1543	135,410,597	1.14
SJV	270	16,527,859	1.63
CA	1,901	157,675,182	1.21

Notes:

- The San Joaquin Valley (SJV) is defined as the counties that are in partnership with the San Joaquin Valley Public Health Consortium (Calaveras, Fresno, Kern, Kings, Madera, Mariposa, Merced, San Benito, San Joaquin, Stanislaus, Tulare, and Tuolumne).
- Data does NOT include counties with suppressed counts. Statistics are suppressed for individual counties in the dataset when fewer than 10 persons (0-9) are represented. For the SJV, this would be Calaveras, Kings, San Benito, and Tuolumne.
- Data includes counties with 0 fatal unintentional/unknown intent drownings. There were no counties with 0 counts in the SJV.

Regional Summary of Fatal Unintentional Drownings in Natural Bodies of Water, 2018-2021

Region	Number of Fatal Unintentional Drownings in Natural Bodies of Water	Population Size	Crude Rate per 100,000	The proportion of Deaths in Natural Bodies of Water by Count
Non-SJV	588	127665920	0.46	38.11%
SJV	106	16403783	0.65	39.26%
CA	799	157675182	0.51	42.03%

Notes:

- The San Joaquin Valley (SJV) is defined as the counties that are in partnership with the San Joaquin Valley Public Health Consortium (Calaveras, Fresno, Kern, Kings, Madera, Mariposa, Merced, San Benito, San Joaquin, Stanislaus, Tulare, and Tuolumne).
- Data does NOT include counties with suppressed counts. Statistics are suppressed for individual counties in the dataset when fewer than 10 persons (1-9) are represented. For the SJV, this would be Kings, Madera, and Tuolumne.
- Data includes counties with 0 fatal unintentional/unknown intent drownings. For the SJV, this would be Calaveras, Mariposa, and San Benito

SJV County Data

Fatal Unintentional/Unknown Intent Drowning, 2018-2021

County	Deaths	Population	Crude Rate Per 100,000
Calaveras	Suppressed	184,036	Suppressed
Fresno	64	4,008,000	1.6
Kern	52	3,616,001	1.4
Kings	Suppressed	610,441	Suppressed
Madera	11	632,170	Unreliable
Mariposa	Suppressed	68,981	Suppressed
Merced	26	1,118,158	2.3
San Benito	Suppressed	255,077	Suppressed
San Joaquin	55	3,072,185	1.8
Stanislaus	39	2,203,555	1.8
Tulare	23	1,877,790	1.2
Tuolumne	Suppressed	219,342	Suppressed

Fatal Unintentional Drownings in Natural Bodies of Water, 2018-2021

County (Alone)	Deaths	Population	Crude Rate Per 100,000
Calaveras	0	184,036	Unreliable
Fresno	23	4,008,000	0.6
Kern	16	3,616,001	Unreliable
Kings	Suppressed	610,441	Suppressed
Madera	Suppressed	632,170	Suppressed
Mariposa	0	68,981	Unreliable
Merced	12	1,118,158	Unreliable
San Benito	0	255,077	Unreliable
San Joaquin	23	3,072,185	0.7
Stanislaus	14	2,203,555	Unreliable
Tulare	18	1,877,790	Unreliable
Tuolumne	Suppressed	219,342	Suppressed

Brief Method Summary

The data was queried from CDC WONDER Online Database* and copied into a Microsoft Excel spreadsheet. The query criteria were defined as the number and crude rates per 100,000 for the underlying cause of death classified as any one of the ICD-10 codes listed below** for the years 2018-2021 by each county in CA. The query resulted in some suppressed statistics (fewer than 10 cases) and some counties with 0 cases. Counties were coded by SJV region (SJV or non-SJV); the San Joaquin Valley (SJV) was defined as the counties that are in partnership with the San Joaquin Valley Public Health

Consortium (Calaveras, Fresno, Kern, Kings, Madera, Mariposa, Merced, San Benito, San Joaquin, Stanislaus, Tulare, and Tuolumne). A pivot table was used to summarize the data while ignoring suppressed counties. Data were summarized by summing the total number of deaths for unsuppressed counties in each region and summing the total population for unsuppressed counties in each region. Rates were re-calculated for the region by dividing the total deaths by the total population and multiplying by 100,0000.

*Source: Centers for Disease Control and Prevention, National Center for Health Statistics. National Vital Statistics System, Mortality 2018-2021 on CDC WONDER Online Database, released in 2021. Data are from the Multiple Cause of Death Files, 2018-2021, as compiled from data provided by the 57 vital statistics jurisdictions through the Vital Statistics Cooperative Program. Accessed at http://wonder.cdc.gov/ucd-icd10-expanded.html on May 31 - Jun 9, 2023.

See Underlying Cause of Death, 2018-2021, Single Race Documentation for more information.

**ICD-10 Codes for Fatal Unintentional/Unknown Intent Drowning: V90.0 (Accident to watercraft causing drowning and submersion, merchant ship); V90.1 (Accident to watercraft causing drowning and submersion, passenger ship, ferry-boat, or liner); V90.2 (Accident to watercraft causing drowning and submersion, fishing boat); V90.3 (Accident to watercraft causing drowning and submersion, other powered watercraft, hovercraft (on open water), or jet skis); V90.4 (Accident to watercraft causing drowning and submersion, sailboat or yacht); V90.5 (Accident to watercraft causing drowning and submersion, canoe or kayak); V90.6 (Accident to watercraft causing drowning and submersion, inflatable craft (nonpowered)); V90.7 (Accident to watercraft causing drowning and submersion, water-skis); V90.8 (Accident to watercraft causing drowning and submersion, other unpowered watercraft, surf-board, or windsurfer); V90.9 (Accident to watercraft causing drowning and submersion, unspecified watercraft, boat NOS, ship NOS, or watercraft NOS); V92.0 (Water-transport-related drowning and submersion without accident to watercraft, merchant ship); V92.1 (Water-transport-related drowning and submersion without accident to watercraft, passenger ship, ferry-boat, or liner); V92.2 (Water-transport-related drowning and submersion without accident to watercraft, fishing boat); V92.3 (Water-transport-related drowning and submersion without accident to watercraft, other powered watercraft, hovercraft (on open water), or jet skis); V92.4 (Water-transport-related drowning and submersion without accident to watercraft, sailboat or yacht); V92.5 (Water-transport-related drowning and submersion without accident to watercraft, canoe or kayak); V92.6 (Water-transport-related drowning and submersion without accident to watercraft, inflatable craft (nonpowered)); V92.7 (Water-transport-related drowning and submersion without accident to watercraft, water-skis); V92.8 (Water-transport-related drowning and submersion without accident to watercraft, other unpowered watercraft, surf-board, or windsurfer); V92.9 (Water-transport-related drowning and submersion without accident to watercraft, unspecified watercraft, boat NOS, ship NOS, or watercraft NOS); W65 (Drowning and submersion while in bath-tub); W66 (Drowning and submersion following fall into bath-tub); W67 (Drowning and submersion while in swimming-pool); W68 (Drowning and submersion following fall into swimming-pool); W69 (Drowning and submersion while in natural water); W70 (Drowning and submersion following fall into natural water); W73 (Other specified drowning and submersion); W74 (Unspecified drowning and submersion); Y21 (Drowning and submersion, undetermined intent)

**ICD-10 Codes for Fatal Unintentional Drownings in Natural Bodies of Water: V90.0 (Accident to watercraft causing drowning and submersion, merchant ship); V90.1 (Accident to watercraft causing drowning and submersion, passenger ship, ferry-boat, or liner); V90.2 (Accident to watercraft causing drowning and submersion, other powered watercraft, hovercraft (on open water), or jet skis); V90.4 (Accident to watercraft causing drowning and submersion, sailboat or yacht); V90.5 (Accident to watercraft causing drowning and submersion, canoe or kayak); V90.6 (Accident to watercraft causing drowning and submersion, inflatable craft (nonpowered)); V90.7 (Accident to watercraft causing drowning and submersion, other unpowered watercraft, surf-board, or windsurfer); V90.8 (Accident to watercraft causing drowning and submersion, unspecified watercraft, boat NOS, ship NOS, or watercraft NOS); V92.0 (Water-transport-related drowning and submersion without accident to watercraft, passenger ship, ferry-boat, or liner); V92.1 (Water-transport-related drowning and submersion without accident to watercraft, fishing boat); V92.3 (Water-transport-related drowning and submersion without accident to watercraft, hovercraft (on open water), or jet skis); V92.4 (Water-transport-related drowning and submersion without accident to watercraft, hovercraft (on open water), or jet skis); V92.4 (Water-transport-related drowning and submersion without accident to watercraft, sailboat or yacht); V92.5 (Water-transport-related drowning and submersion without accident to

watercraft, canoe or kayak); V92.6 (Water-transport-related drowning and submersion without accident to watercraft, inflatable craft (nonpowered)); V92.7 (Water-transport-related drowning and submersion without accident to watercraft, water-skis); V92.8 (Water-transport-related drowning and submersion without accident to watercraft, other unpowered watercraft, surf-board, or windsurfer); V92.9 (Water-transport-related drowning and submersion without accident to watercraft, unspecified watercraft, boat NOS, ship NOS, or watercraft NOS); W69 (Drowning and submersion while in natural water); W70 (Drowning and submersion following fall into natural water)

Questions?

Please direct your questions to:

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