Second Statewide Agricultural Expert Panel

Document Log

1/29/2026

The following is a comprehensive list of documents provided to the Second Statewide Agricultural Expert Panel (Panel). Materials include, but are not limited to, background regulatory information, program data, Regional Water Board data analyses, information requested by the public, and working group meeting documents. Draft recommendations are intended as working documents that do not represent the final opinion of the Panel and will be replaced with newer versions as applicable. Opinions expressed by the Panel do not necessarily represent the opinion of the State Water Resources Control Board and the Regional Water Quality Control Boards. This log will be updated as new materials are added. Materials without a listed public access link can be accessed via the FTP site listed below, which will be updated frequently. If you have issues accessing the documents, please email DWQ-ILRP@Waterboards.ca.gov. Some documents are protected by copyright from scientific journals and will only be provided for in-person viewing at the CalEPA Headquarters Building located at 1001 I St., Sacramento, CA 95814.

FTP URL: https://ftp.waterboards.ca.gov/
Username: agpaneldocs-ftp
Password: AgriculturalExpertPanel2!

Note: copying and pasting the credentials can lead to log-in errors

Document Title	Description/Notes	Public Access Link
Conclusions of the Agricultural Expert Panel (2014)	First Agricultural Expert Panel recommendations	https://www.waterboards.ca.gov/water_issues/programs/agriculture/docs/ILRP_expert_panel_final_report.pdf

Document Title	Description/Notes	Public Access Link
CDFA California Crop Fertilization Guidelines	California Department of Food and Agriculture's California Crop Fertilization Guidelines	https://www.cdfa.ca.gov/is/ffldrs/frep/FertilizationGuidelines/
ESJ Water Quality Order (Order No. WQ-2018-0002)	In the Matter of Review of Waste Discharge Requirements General Order No. R5-2012-0116 for Growers Within the Eastern San Joaquin River Watershed that are Members of the Third-Party Group	https://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2018/wqo2018_0002_with_data_fig1_2_appendix_a.pdf
Central Coast Water Quality Order (Order No. WQ-2023-0081)	In the Matter of Review of General Waste Discharge Requirements for Discharges from Irrigated Lands Order No. R3-2021-0040	https://www.waterboards.ca.gov/public_notices/petitions/water_quality/docs/2023/wqo2023-0081.pdf
Region 3 Agricultural Order 4.0	General Waste Discharge Requirements for Discharges from Irrigated Lands Order No. R3-2021-0040	https://waterboards.ca.gov/centralcoast/water_issues/programs/ilp/regulatory_information.html
Region 3 Agricultural Order 4.0 - Attachment A: Findings	General Waste Discharge Requirements for Discharges from Irrigated Lands Order No. R3-2021-0040	https://waterboards.ca.gov/centralcoast/water_issues/programs/ilp/docs/ag_order4/2021/ao4_att_a.pdf
Region 3 Agricultural Order 4.0 - Attachment B: Monitoring and Reporting Program	General Waste Discharge Requirements for Discharges from Irrigated Lands Order No. R3-2021-0040	https://waterboards.ca.gov/centralcoast/water_issues/programs/ilp/docs/ag_order4/2021/ao4_att_b.pdf
Region 3 Agricultural Order 4.0 - Attachment C: Acronyms, Abbreviations, and Definitions	General Waste Discharge Requirements for Discharges from Irrigated Lands Order No. R3-2021-0040	https://waterboards.ca.gov/centralcoast/water_issues/programs/ilp/docs/ag_order4/2021/ao4_att_c.pdf
Region 3 ILP Webpage on TNA and INMP Reporting	Hosts guides, instructions and tools in multiple languages to assist growers and consultants with reporting	https://www.waterboards.ca.gov/centralcoast/water_issues/programs/ilp/tna_inmp.html

Document Title	Description/Notes	Public Access Link
Region 3 TNA Data	Data exported from GeoTracker on August 21, 2025. Eleven (11) years of grower reported data.	Access via FTP site
Region 3 TNA Data Dictionary	Data dictionary for exported TNA data	Access via FTP site
Region 3 TNA Reporting Instructions	Provides guidance on the information necessary to submit the TNA Report and instructions on how to report in GeoTracker	https://www.waterboards.ca.gov/centralcoast/water_issues/programs/ilp/docs/tna/tna_instructions.pdf
Region 3 INMP Data	Data exported from GeoTracker on August 21, 2025. Two (2) years of grower reported data.	Access via FTP site
Region 3 INMP Data Dictionary	Data dictionary for exported INMP data	Access via FTP site
Region 3 INMP Reporting Instructions	Provides guidance on the information necessary to submit the INMP Summary Report and instructions on how to report in GeoTracker	https://www.waterboards.ca.gov/centralcoast/water_issues/programs/ilp/docs/tna/inmp-instructions.pdf
Region 3 Well Monitoring Data	Data exported from GeoTracker on August 21, 2025. Eleven (11) years of grower reported data.	Access via FTP site
Region 3 Well Monitoring Reporting and Guidance	Provides guidance on the information necessary to complete and submit well monitoring and reporting in GeoTracker.	https://www.waterboards.ca.gov/centralcoast/water_issues/programs/ilp/groundwater_quality_monitoring_and_reporting.html

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Region 3 ACF Reporting Instructions	Provides guidance on the information necessary to submit the ACF Report and instructions on how to report in GeoTracker	https://www.waterboards.ca.gov/centralcoast/water_issues/programs/ilp/docs/resources4growers/acf_instructions.pdf
Region 3 eNOI Instructions	Provides guidance on the information necessary to submit the electronic Notice of Intent (enrollment information) and instructions on how to report in GeoTracker	https://www.waterboards.ca.gov/centralcoast/water_issues/programs/ilp/docs/enoi_instructions.pdf
Region 3 Crop Nitrogen Removal conversion coefficient standard protocols	Standard protocols developed in coordination with Michael Cahn and Richard Smith that must be followed for a grower to develop a crop conversion coefficient	https://www.waterboards.ca.gov/centralcoast/water_issues/programs/ilp/docs/tna/n_rmvl_cffcnt_prtcls.pdf
Region 3 INMP Exemptions Technical Report Approval Process	There are three (3) exemptions outlined in the Agricultural Order that can exempt growers from having to report certain information in sections of the Irrigation and Nutrient Management Plan (INMP) Summary Report. This guidance document specifies the minimum required information that must be included in a technical report and the approval process.	https://www.waterboards.ca.gov/centralcoast/water_issues/programs/ilp/docs/2023/nmp-reporting-exemptions.pdf
Region 3 TNA and INMP Summary Report	Central Coast Water Board Technical Report on Total Nitrogen Applied (TNA) and Irrigation and Nutrient Management Plan (INMP) Summary Report Data	https://www.waterboards.ca.gov/centralcoast/water_issues/programs/ilp/docs/r3-ar-technical-report.pdf
Region 3 Irrigated Lands Program Dashboard	Irrigated Lands Program - Dashboard for Grower Reporting & Water Quality	https://www.waterboards.ca.gov/centralcoast/water_issues/programs/ilp/dashboard.html

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Crop Improvement and Protection Research: Cover Crops Nitrogen Scavenging Credits	Cover Crop Research by Dr. Eric B. Brennan	https://www.ars.usda.gov/pacific-west-area/salinas-ca/crop-improvement-and-protection-research/people/eric-b-brennan/ag-order-40-regulation-resources-and-research/
Region 5 INMP Data	several files: INMP data for 13 coalitions over 4 reporting years	Access via FTP site
Region 7 INMP Data	several files: INMP data over 2 reporting years	Access via FTP site
Region 8 INMP Data	several files: INMP data over 1 reporting year	Access via FTP site
2024 Staff Data Report	Analysis of Available Irrigated Lands Regulatory Program (ILRP) Nitrogen Data	https://waterboards.ca.gov/water_issues/programs/agriculture/docs/ilrpdatareport.pdf
Betteravia Farms Trial	Presentation slides submitted by public comment	Access via FTP site
Comprehensive Isotopic Analyses of Sources, Flow Paths, and Geochemical Processes Affecting Nitrate in Central Coast Groundwater (by Lawrence Livermore Nat'l Lab)	Flow and paths of geochemical processes affecting nitrate in Central Coast groundwater	https://water.llnl.gov/sites/water/files/2021-02/CCWB_LLNL_report_final_0.pdf

Document Title	Description/Notes	Public Access Link
Technical Report 2: Nitrogen Sources and Loading to Groundwater (of the UC Davis/UC ANR Nitrate Report)	Technical Report covering nitrogen sources to groundwater with a focus on Tulare Lake Basin and Salinas Valley groundwater; report to the Water Board and the Legislature	https://ucanr.edu/sites/groundwaternitrate/files/139110.pdf
Nitrogen Crop Coefficients (Geisseler 2016)	A literature overview of nitrogen concentrations in harvested plants	http://geisseler.ucdavis.edu/Geisseler_Report_2016_12_02.pdf
Technical Memorandum - Nitrate in GW in Palo Verde Outfall Coalition Region (by MLJ Consulting)	Prepared by MLJ Consulting on behalf of the Palo Verde Outfall Coalition in Region 7	Access via FTP site
Improving Nitrogen Use Efficiency in Lettuce Production (by Smith and Cahn; UCCE and UC Davis)	A paper discussing how to improve nitrogen efficiency for lettuce farming operations	https://calasa.ucdavis.edu/files/73479.pdf#page=44
Evaluation of N Uptake and Water Use of Leafy Greens Grown in High-Density 80-inch Bed Plantings and Demonstration of Best Management Practices (by Smith, Cahn, and Hartz; FREP)	Provides basic agronomic evaluations of vegetables crops grown on high-density, 80-inch-wide beds	https://www.cdfa.ca.gov/is/ffldrs/frep/pdfs/completedprojects/12-0362-SA_Smith.pdf
Nutrient and Water Use of Fresh Market Spinach (by Smith, Cahn, and Hartz; UCCE and UC Davis)	Presentation slides covering nutrient and water use of fresh market spinach	https://bpb-us-e1.wpmucdn.com/wordpressua.uark.edu/dist/0/310/files/2017/06/Nutrient-and-water-use-of-fresh-market-spinach-Richard-Smith.pdf

Document Title	Description/Notes	Public Access Link
Addressing Nitrate in California's Drinking Water (UC Davis/UC ANR Nitrate Report)	Report covering nitrogen sources to groundwater with a focus on Tulare Lake Basin and Salinas Valley groundwater; report to the Water Board and the Legislature	https://ucanr.edu/sites/default/files/2012-03/138956.pdf
Relation of nitrate contamination of groundwater with methaemoglobin level among infants in Gaza (by Naser, Khoudary)	A cross-sectional and analytical study to determine the factors associated with high levels of methaemoglobin in infants	https://pubmed.ncbi.nlm.nih.gov/18290391/
Case Studies in Environmental Medicine Nitrate/Nitrite Toxicity (by ATSDR, US DHHS)	An educational case study document in a series of self-instructional modules designed to increase the primary care provider's knowledge of hazardous substances in the environment	https://archive.cdc.gov/www_atsdr_cdc_gov/csem/nitrate_2013/docs/nitrite.pdf
Social Disparities in Nitrate-Contaminated Drinking Water in California's San Joaquin Valley (by Balazs, Morello-Frosch, Hubbard, Ray)	Study examining the disproportionate exposure of nitrate faced in the San Joaquin Valley	https://pmc.ncbi.nlm.nih.gov/articles/PMC3230390/pdf/ehp.1002878.pdf
Cover Cropping in the SGMA Era	A comprehensive overview of water impacts, policy implications, and recommendations for California's water managers	https://www.cdfa.ca.gov/oefi/efasap/docs/2024/Sustainable_Conservation-Cover-Crop-SGMA-Report.pdf
Predicting cereal cover crop biomass using shoot length in California vegetable systems (by Brennan and Smith)	A study discussing correlation between cereal cover crop main shoot length and shoot biomass	https://acsess.onlinelibrary.wiley.com/doi/full/10.1002/ael2.20099

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Land-use change and costs to rural households: a case study in groundwater nitrate contamination (by Keeler and Polasky)	A case study in groundwater nitrate contamination	https://iopscience.iop.org/article/10.1088/1748-9326/9/7/074002/pdf
Eight Blue Babies (by Knobeloch)	A study about Infant Methemoglobinemia (Blue Baby Syndrome), which is a condition that occurs when the hemoglobin is found in infants blood cells	https://www.researchgate.net/profile/Lynda-Knobeloch/publication/10814458_Eight_blue_babies/links/02bfe510736ecce3b8000000/Eight-blue-babies.pdf
Blue Babies and Nitrate-Contaminated Well Water (by Knobeloch, et. al)	A study about Infant Methemoglobinemia (Blue Baby Syndrome), which is a condition that occurs when the hemoglobin is found in infants blood cells	https://ehp.niehs.nih.gov/doi/pdf/10.1289/ehp.00108675
The Human Costs of Nitrate-contaminated Drinking Water in the San Joaquin Valley (by Pacific Institute 2011)	Community-based research process in 2009 documenting the economic, social, and potential health impacts of nitrate contamination of drinking water in the San Joaquin Valley	https://pacinst.org/wp-content/uploads/2013/02/nitrate_contamination1.pdf
Nitrate and Nitrite in Drinking Water (by OEHHA)	Provides information on health effects from nitrate and nitrite in California's drinking water	https://oehha.ca.gov/media/downloads/water/chemicals/phg/nitratephg051118.pdf
Environmental justice and drinking water quality: are there socioeconomic disparities in nitrate levels in U.S. drinking water?	A study identifying determinants of nitrate concentrations in U.S. community water systems and evaluating disparities related to wealth or race/ethnicity	https://link.springer.com/article/10.1186/s12940-018-0442-6

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Exposure-based assessment and economic valuation of adverse birth outcomes and cancer risk due to nitrate in United States drinking water (by Temkin, et. al)	Meta-analysis of eight studies assessing nitrate in drinking water	https://www.sciencedirect.com/science/article/pii/S001393511930218X
NRCS Conservation Practice Standard Nutrient Management Code 590 (2020)	Natural Resources Conservation Service's Conservation Practice Standard for nutrient management	https://efotg.sc.egov.usda.gov/api/CPSFile/27020/590_CA_CPS_Nutrient_Management_2020
Nitrates and Nitrites (by US EPA)	A chemical summary of nitrates and nitrites	https://archive.epa.gov/region5/teach/web/pdf/nitrates_summary.pdf
Nitrates in Municipal Water Supply Cause Methemoglobinemia in Infant (by Vigil, et. al)	An article from 1965 on an infant ingesting water containing high levels of nitrate	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1919725/pdf/pubhealthreporig00060-0089.pdf
Survey of Literature Relating to Infant Methemoglobinemia Due to Nitrate-Contaminated Water (by Walton)	Two cases of infant methemoglobinemia recorded in 1945	https://ajph.aphapublications.org/doi/pdf/10.2105/AJPH.41.8_Pt_1.986
Nitrate and nitrite in Drinking-water (by World Health Organization)	A background document for development of World Health Organization guidelines for drinking water quality	https://iris.who.int/bitstream/handle/10665/75380/WHO_SDE_WSH_04.03_56_eng.pdf

Document Title	Description/Notes	Public Access Link
Mustard Cover Crop Growth and Weed Suppression in Organic, Strawberry Furrows in California (Brennan, Smith)	A study exploring the relationship between mustard cover crop growth and weed suppression in organic strawberry fields	https://journals.ashs.org/view/journals/hortsci/53/4/article-p432.xml
Winter cover crops in a vegetable cropping system: Impacts on nitrate leaching, soil water, crop yield, pests and management costs (Wyland et al)	Study investigating the effect of altering surface soil dynamics, using a winter cover crop rotation, on biotic and abiotic characteristics of the soil profile	https://www.sciencedirect.com/science/article/abs/pii/0167880996010481
Scientists, growers assess trade-offs in use of tillage, cover crops and compost (Jackson et al)	A 2003 study evaluating tillage, cover crops, and compost usage for lettuce and broccoli in the Salinas Valley	https://escholarship.org/uc/item/8tv45119
In lettuce production, winter cover crops can decrease soil nitrate, leaching potential (Jackson et al)	A 1993 study of on-field trials assessing the use of cover crops to decrease nitrate leaching potential	https://www.researchgate.net/publication/340425163_In_lettuce_production_winter_cover_crops_can_decrease_soil_nitrate_leaching_potential
Winter cover crops to minimize nitrate losses in intensive lettuce production (Jackson et al)	A 2-year study conducted in Salinas, California in 1989–91 that showed that soil nitrate concentrations were reduced by cover crops during a short winter fallow period	https://www.cambridge.org/core/journals/journal-of-agricultural-science/article/abs/winter-cover-crops-to-minimize-nitrate-losses-in-intensive-lettuce-production/1B0B1F1710ADE80015AA93D50C3A168D#access-block

Document Title	Description/Notes	Public Access Link
Winter-killed Cereal Rye Cover Crop Influence on Nitrate Leaching in Intensive Vegetable Production Systems (Heinrich)	Field studies evaluating cover cropping to reduce nitrate leaching	https://journals.ashs.org/view/journals/horttech/24/5/article-p502.xml
The Effect of Cover Crops and Fertilization with Ammonium Nitrate on Corky Root of Lettuce (Van Bruggen et al)	A 1990 study exploring the effect of cover crops and fertilization on the corky root of lettuce	https://www.apsnet.org/publications/PlantDisease/BackIssues/Documents/1990Articles/PlantDisease74n08_584.PDF
Comparison of Rye and Legume–Rye Cover Crop Mixtures for Vegetable Production in California (Brennan et al)	A 2-year study on organic farms in Salinas and Hollister that evaluated cover crop population densities, ground cover, aboveground dry matter, and N content of rye and five legume–rye mixtures.	https://acsess.onlinelibrary.wiley.com/doi/epdf/10.2134/agronj2010.0152
Winter Cover Crop Seeding Rate and Variety Affects during Eight Years of Organic Vegetables (Brennan, Boyd)	Study examining seeding rate and nitrogen accumulation of rye, legume–rye, and mustard in Salinas	https://acsess.onlinelibrary.wiley.com/doi/epdf/10.2134/agronj2011.0331
Biochar, soil and land-use interactions that reduce nitrate leaching and N2O emissions: A meta-analysis	A meta-analysis to assess interactions between biochar-induced effects on N_2O emissions and NO_3^- retention	https://www.sciencedirect.com/science/article/abs/pii/S0048969718339330?via%3Dihub
Crop-Specific Multi-Year Acceptable Ranges of Applied Nitrogen Relative to Nitrogen Removed	A draft proposal from Central Valley Coalitions for acceptable ranges for nitrogen applied and nitrogen removed calculations	https://content.govdelivery.com/attachments/CAWRCB/2025/01/21/file_attachments/3139025/20241007_ARAcceptableRanges_Report.pdf

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Recognition and Support of Indigenous California Land Stewards, Practitioners of Kincentric Ecology	Written to advance the rights and opportunities of the stewards of biocultural diversity and sustainable land management practices	https://www.firstnations.org/publications/recognition-and-support-of-indigenous-california-land-stewards-practitioners-of-kincentric-ecology/
Soil biota enhance agricultural sustainability by improving crop yield, nutrient uptake and reducing nitrogen leaching losses (Bender, van der Heijden)	An investigation of soil biota on nutrient leaching plant performance	https://besjournals.onlinelibrary.wiley.com/doi/epdf/10.1111/1365-2664.12351
Nutrient Uptake of Brussels Sprout (by Smith, UC ANR)	Could not be found, link broken - 'Page Not Found'	https://ucanr.edu/blogs/blogcore/postdetail.cfm?postnum=16850
Wine Institute Comments 8.7.25	Submitted by the Wine Institute and referenced at the August 8th Kick-Off Plenary Meeting	Access via FTP site
NGO Coalition - Scientific Literature Review for Questions Posed to the Upcoming Second Statewide Agricultural Expert Panel	Submitted by a Non-Governmental Organization Coalition and referenced at the August 14th Kick-Off Plenary Meeting	Access via FTP site
Literature Review of Questions Assigned to the Expert Advisory Panel 2025, Prepared by Daniel Rath, Ph.D.	Submitted by Dr. Rath and referenced at the August 14th Kick-Off Plenary Meeting	Access via FTP site

Document Title	Description/Notes	Public Access Link
Public Comment Letters on Draft Questions	Public comments received for the draft panel questions and call for suggested panel expertise/data	Access via FTP site
Presentations from 8.8.25 Plenary Meeting	Presentation slides from the August 8th Kick-Off Plenary Meeting	Access via FTP site
Presentations from 8.14.25 Plenary Meeting	Presentation slides from the August 14th Kick-Off Plenary Meeting	Access via FTP site
NRDC 7.11.25 Letter to Water Board Requesting Additional Coalition Analysis	Comment letter submitted by the Natural Resources Defense Council	Access via FTP site
NRDC 5.20.25 Comments on Data Analysis Prepared for the Second AEP	Comment letter submitted by the Natural Resources Defense Council	Access via FTP site
Nitrogen Management in Nursery Production by Bruno J.L. Pitton	Presentation slides given at the California Nursery Conference on September 10th, 2025, and referenced at the October 1st Listening Session	Access via FTP site
ELF et. al. 9.29.25 Letter to Water Board Requesting Additional Central Valley Data	Comment letter submitted by the Environmental Law Foundation (ELF) and others	Access via FTP site
Draft ESJ Water Quality Order (Order No. WQ-2018-XXXX) Change Sheet #3	The Draft Eastern San Joaquin Water Quality Order, see pg. 41 for the alternate reporting requirements for small/diversified farms	https://www.waterboards.ca.gov/public_notices/petitions/water_quality/docs/a2239/changesheet03.pdf

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Public Comment on Draft ESJ Water Quality Order (Ruth Dahlquist-Willard and Aparna Gazula)	Submitted comment letter by Ruth Dahlquist-Willard and Aparna Gazula on the Draft ESJ Water Quality Order discussing the reporting challenges for small/diversified farms	Access via FTP site
Alternative Nitrogen Reporting Requirements for Small, Highly Diversified Growers within the KRWCA	The plan for the alternative reporting for small, highly diversified growers developed by Kings River Watershed Coalition Authority	Access via FTP site
Alternative INMP Worksheet for Kings River Water Quality Coalition	Worksheet for the alternative Irrigation and Nitrogen Management Plan (INMP) reporting developed by KRWQC and UCCE Fresno County	Access via FTP site
Central Valley Water Board Memos Approving KRWCA Alternative Nitrogen Reporting Requirements	Two memos from the Central Valley Regional Water Quality Control Board approving the Kings River Watershed Coalition Authority's alternative reporting for small, highly diversified growers within KRWCA, dated February 17th, 2023	Access via FTP site
Request from Panelist Ngodoo Atume for acreage data	Email from Panelist Ngodoo Atume requesting access to program acreage data	Access via FTP site
Presentations from 10.1.25 Listening Session	Presentation slides from the October 1st Listening Session	Access via FTP site
Provost & Pritchard Ag Expert Panel Comment Letter 10.9.25	Comment letter submitted by Provost & Pritchard	Access via FTP site

Document Title	Description/Notes	Public Access Link
Summary of 10.13.25 Working Group Session	Summary of discussion held during the October 13th Working Group Session, prepared by State Board staff	Access via FTP site
General Response to Comments on Draft Questions	Staff general response to public comments received for the draft panel questions and call for suggested panel expertise/data, released with finalized questions on October 24, 2024	https://waterboards.ca.gov/water_issues/programs/agriculture/docs/generalresponses.pdf
Summary of 10.22.25 Working Group Session	Summary of discussion held during the October 22nd Working Group Session	Access via FTP site
1998-2018 Ambient Water Quality Report and Accompanying Nitrate Maps	Multiple files from the 1998-2018 Ambient Water Quality Report prepared for the Santa Ana Watershed Project Authority Basin Monitoring Program Task Force (submitted by Region 8 staff at the request of panelists asking for groundwater nitrate data)	Access via FTP site
2023 Annual Monitoring Report for Agricultural Operations in Region 8	2023 ILRP Annual Monitoring Report submitted by the Eastern Municipal Water District (submitted by Region 8 staff at the request of panelists asking for groundwater nitrate data)	Access via FTP site
Santa Ana Watershed Project Authority (SAWPA) GIS resources and maps	Santa Ana Watershed Project Authority GIS resources and maps (submitted by Region 8 staff at the request of panelists asking for groundwater nitrate data)	https://sawpa.gov/gis-tools/

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Nitrate Nitrogen SAWPA Map (1996-2015)	Santa Ana Watershed Project Authority Nitrate Nitrogen Map of 1996-2015 (submitted by Region 8 staff at the request of panelists asking for groundwater nitrate data)	https://sawpa.gov/wp-content/uploads/2019/09/17_2882_NO3_1990-2015.jpg
Memo with Region 4 Nitrate Maps and the 2022 Annual Monitoring Report	Groundwater nitrate concentration trend maps and the 2022 Annual Monitoring Report prepared by the Ventura County Agricultural Irrigated Lands Group (submitted by Region 4 staff at the request of panelists asking for groundwater nitrate data)	Access via FTP site
Presentations from 10.31.25 Plenary Meeting	Presentation slides from the October 31st Plenary Meeting	Access via FTP site
Technical Report 2: Nitrogen Source Reduction to Protect Groundwater Quality (of the UC Davis/UC ANR Nitrate Report)	Technical Report covering nitrogen source reduction with a focus on Tulare Lake Basin and Salinas Valley groundwater; report to the Water Board and the Legislature; Submitted by Chair Geisseler for review of Section 3	https://ucanr.edu/sites/default/files/2012-08/139103.pdf
Nitrogen Fertilizer Loading to Groundwater in the Central Valley, FREP Projects 11-0301 and 15-0454	Submitted by Chair Geisseler, for review of Tasks 7, 8, and 11.6	https://ucanr.edu/sites/default/files/2025-04/FREP%2011-0301%202016%20Final%20Report%202017-10-30.pdf
Summary of 10.31.25 Plenary Meeting	Summary of discussion held during the October 31st Plenary Meeting	Access via FTP site

Document Title	Description/Notes	Public Access Link
Region 5 Outlier Method Memo	Memo dated April 12, 2019, for outlier methodology in Region 5; submitted by Region 5 staff for clarification on outlier methods in the Central Valley	Access via FTP site
Summary of 11.14.25 Working Group Session	Summary of discussion held during the November 14th Working Group Session	Access via FTP site
Summary of 11.19.25 Working Group Session	Summary of discussion held during the November 19th Working Group Session	Access via FTP site
Proposed Alternate Report Outline	Alternative Report outline proposed by panelist Thomas Harter on December 5th	Access via FTP site
Summary of 12.5.25 Working Group Session	Summary of discussion held during the December 5th Working Group Session	Access via FTP site
Power BI_APN ID Table	Flat flies INMP Summary Report data sorted by anonymous APN ID used in the Data Visualization Tool	https://waterboards.ca.gov/water_issues/programs/agriculture/docs/apn-id-table.xlsx
Power BI_Township Range Table	Flat flies INMP Summary Report data aggregated by Township Range used in the Data Visualization Tool	https://waterboards.ca.gov/water_issues/programs/agriculture/docs/township-range-table.xlsx
Power BI_Member ID Table	Flat flies INMP Summary Report data sorted by anonymous Member ID used in the Data Visualization Tool	https://waterboards.ca.gov/water_issues/programs/agriculture/docs/member-id-table.xlsx
Comments on Proposed Alternate Report Outline_Montazar	Comments on the proposed alternative Report outline, submitted by panelist Ali Montazar on December 8th	Access via FTP site

Document Title	Description/Notes	Public Access Link
Comments on Proposed Alternate Report Outline_Geisseler	Comments on the proposed alternative Report outline, submitted by Chair Daniel Geisseler on December 10th	Access via FTP site
Exemptions Comments_Montazar	Comments by panelist Ali Montazar regarding exemptions to ILRP regulations	Access via FTP site
Irrigation and Nitrogen Management Training for Grower Self-Certification Workbook	Submitted by Ken Miller during the December 12th Working Group Meeting	https://www.cdfa.ca.gov/is/ffldrs/frep/pdfs/training/inmtp_workbook.pdf
Region 3 Fact Sheet: Persistent Groundwater Nitrate Pollution Linked to Ongoing Agricultural Activities in the Central Coast Region	Fact sheet developed by the Central Coast Water Board summarizing recent data and analyses that demonstrate how ongoing agricultural practices continue to impact groundwater quality, with nitrate pollution remaining a persistent and worsening problem	Access via FTP site
Toward the Human Right to Water for Vulnerable Communities: The Effectiveness of Stakeholder Processes to Control Regional Shallow Groundwater Contamination by Nitrates	Water Resources Research article written by Stewart et. al., discussed during the December 17th Public Listening Session	https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2025WR040896

Document Title	Description/Notes	Public Access Link
Title VI Complaint and Petition for Rulemaking for Promulgation Central Coast Region Water Quality Standards	California Rural Legal Assistance (CRLA) Title VI Complaint to the US EPA, discussed during the December 17th Public Listening Session	https://crla.org/sites/default/files/2024-03/3.18.24_CRLA-Title-VI-Complaint-Central%20Coast.pdf
Summary of 12.12.25 Working Group Session	Summary of discussion held during the December 12th Working Group Session	Access via FTP
George Adam Comments 12.17.25	Public comment letter provided by George Adam during the December 17th Working Group Meeting	Access via FTP
Alfalfa's Regional Value in the Low Desert Field Data Document Unmatched Nitrogen Removal with Minimal Inputs	Draft study completed by panelist Ali Montazar and submitted to the panel for review as they address the panel charge questions	Access via FTP
Draft Final Expert Panel Recommendations Report_v5	Draft Report of the Final Expert Panel Recommendations (version 5), updated by chair Daniel Geisseler and distributed back to panelists on January 26th	Access via FTP
Presentations from 1.7.26 Working Group Session	Presentation slides from the January 7th Working Group Session	Access via FTP

Document Title	Description/Notes	Public Access Link
A(IRR) Panel Presentation_Cahn	Presentation on nitrogen application via irrigation provided by panelist Michael Cahn	Access via FTP
Kaweah Subbasin Technology and Sustainability Graphics_Wilcox Comment	Submitted by David Wilcox following the Working Group Session on January 7th	Access via FTP
Restoring Planetary Boundaries through Crop System Replacement_Wilcox Comment	Submitted by David Wilcox following the Working Group Session on January 7th	Access via FTP
Grimm Organic Center Comment Letter 12.17.25	Public comment letter provided by Grimm Family Center for Organic Production and Research on December 17th	Access via FTP
Summary of 1.7.26 Working Group Session	Summary of discussion held during the January 7th Working Group Session	Access via FTP
Summary of 1.14.26 Working Group Session	Summary of discussion held during the January 14th Working Group Session	Access via FTP

Document Title	Description/Notes	Public Access Link
VCAILG Comment Letter 1.16.26	Public comment letter provided by the Ventura County Agricultural Irrigated Lands Group (VCAILG) on January 16th	Access via FTP
VCAILG Groundwater Quality Trends Monitoring Report 2025	Attachment to public comment letter provided by the Ventura County Agricultural Irrigated Lands Group (VCAILG) on January 16th	Access via FTP
VCAILG 2022 Groundwater Management Practice Evaluation Report	Attachment to public comment letter provided by the Ventura County Agricultural Irrigated Lands Group (VCAILG) on January 16th	Access via FTP
Summary of 1.21.26 Working Group Session	Summary of discussion held during the January 21st Working Group Session	Access via FTP
Draft Final Expert Panel Recommendations Report_v6	Compiled comments from panelist Richard Smith, Thomas Harter, Ngodoo Atume, and Hannah Waterhouse on the Draft Final Expert Panel Recommendations Report (version 5) sent to panelists on January 29th	Access via FTP