

Colusa Glenn

Subwatershed Program

P.O. Box 1205, Willows, California 95988 - Phone (530) 934-8036 - Email info@cgsubwatershed.com

December 22, 2022

CGSP#####
NAME
ADDRESS
CITY STATE ZIP

RE: Membership & Reporting Data Management Tool for ILRP –

Reporting DUE March 1, 2023 (for the 2022 Crop Year)

***** California Regional Water Quality Board, Central Valley will send you an enforcement letter if NOT submitted by due date! *****

Dear Member,

The Colusa Glenn Subwatershed Program (CGSP) is organized to help you, as a Member, meet the requirements of the Irrigated Lands Regulatory Program (ILRP). As you may be aware, starting five years ago, we introduced the **CGSP Data Management Tool (DMT)**, an online reporting system, to continue helping you meet your reporting requirements* of the ILRP. ***NOTE: Typically, the identified ‘Reporter’ on your account will complete ILRP Reporting. We no longer offer or accept paper copies of your reports that are required to be returned to CGSP. However, we will make every effort to help you through the process.**

Please log-in immediately upon receiving this Reporting Packet to get started. We recommend you DO NOT share your unique USERNAME and / or PASSWORD. Please keep this information in a safe place; you will need it again in the future! As a reminder, we only allow you to see your information. Private information is NOT being shared between Members.

DMT Log-In Information:

***** 2021 passwords used; if you personalized your password we do not know that information for security purposes. Please use your personalized password OR the “Forgot password?” option. *****

Visit Website: www.cgsubwatershed.com

**Look for the Member Online DMT Button & Click Here to re-direct you to the Log-In Page*

USERNAME: CGSP _____

PASSWORD: _____

Keep this information for future access!

Enclosed in this Reporting Packet you will find the following resources:

- ❑ **MEMBER REPORTING REQUIREMENTS AND ANNUAL FEE REMINDER, CERTIFICATION OPTIONS** – A tool to review and keep in your files for reference; in addition, self-certification options for Irrigation and Nitrogen Management Plan (INMP), if applicable, and Sediment and Erosion Control Plan (SECP), if applicable, and a Schedule for Member Services.

FOR “REPORTING” CONTACTS:

- ❑ **2022 Crop Year REPORTING Tools – DUE March 1, 2023, Submit in Member Online DMT**
- ❑ **2023 Crop Year PLANNING Tools – Complete by March 1, 2023, Keep On-Farm Only – DO NOT RETURN**
 - >> **Irrigation and Nitrogen Management Plan Worksheet** – Everyone is required to complete this whether in a Low Vulnerability Area or High Vulnerability Area (HVA) for each Crop Year moving forward. *INMP Worksheet must be Certified if Parcel(s) are in an HVA or an Outlier status.* ** You may make copies of the hard copy provided, or visit www.cgsubwatershed.com for an Excel or PDF fillable copy.
 - >> Seasonal Crop Evapotranspiration (ET) Estimates
 - >> Guidelines for Irrigation Ag Well Sampling for INMP Worksheet
- ❑ **Simple Guidelines for Domestic Drinking Water Well Sampling Requirement by California Regional Water Quality Control Board, Central Valley**

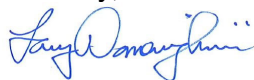
As a reminder, the **2022 Crop Year Reporting is to reflect acres / crops / farming practices as of July 1, 2022.**

CGSP Data Management Tool, or DMT, helps us keep track of the following Owner / Reporter information:

- ✓ Contact Information under “My Info” – Please keep updated! Ensure your EMAIL is correct to receive the most current information in a timely, efficient manner.
- ✓ “Member Data”, including Accounts for Owner(s) / Reporter(s), Billing Contact, Parcel Information, and Cropping Information
- ✓ Allows Reporter to complete the 2022 Irrigation and Nitrogen Management Plan (INMP) Summary Report
- ✓ Allows Reporter to complete 2022 Management Practices Implementation Report (MPIR)
- ✓ Identifies if any Parcel(s) may require Reporter to have a Sediment Discharge and Erosion Control Plan (SECP); see Parcels website page for True or False
- ✓ Tracks Reporter’s Outreach and Education / Training event(s) as well as Certification / Continuing Education Units (CEUs) information, if applicable
- ✓ Maps of your enrolled Parcel(s) / Field(s)

If you are unable to reach us immediately, we may be experiencing a high volume of phone calls. Please be patient with staff and do know they strive to return voicemails and emails within 48 hours or less.

Sincerely,



Larry Domenighini
President



Kandi Manhart-Belding
Subwatershed Coordinator

P.S. To learn more about the Irrigated Lands Regulatory Program and its requirements, visit:

www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/

Reporting DUE March 1, 2023

***** California Regional Water Quality Board, Central Valley
will send you an enforcement letter if not submitted by due date! *****

Colusa Glenn Subwatershed Program

MEMBER REPORTING REQUIREMENTS & ANNUAL FEE REMINDER

More information www.cgsubwatershed.com or call 530-934-8036

Category	Report Requirement	Required Of	Due Date	Keep On-Farm or Submit to CGSP?
Low Vulnerability Area for Groundwater	Irrigation & Nitrogen Management Plan (INMP)	All Members; <u>except</u> irrigated pasture that DO NOT apply Nitrogen	March 1	Keep On-Farm
High Vulnerability Area (HVA) for Groundwater	Certified Irrigation & Nitrogen Management Plan (INMP)	Only HVA Parcels	March 1	Keep On-Farm
	Irrigation & Nitrogen Management Plan Summary Report	Only HVA Parcels	March 1	Submit to CGSP Online
Groundwater	Management Practices Implementation Report (MPIR)	All Members	March 1	Submit to CGSP Online
Sediment and Erosion	Certified Sediment and Erosion Control Plan (SECP)	Only High Risk Areas	Update annually as farm conditions change	Keep On-Farm
Outreach and Education/ Training Event	Event	All Members	March 1	Submit to CGSP Online
CGSP Membership Fee	2023 Annual Payment	Owner <u>OR</u> Reporter	January 31	Submit to CGSP

CERTIFIED: **INMP Certification for Growers;** online training / pass test and maintain 3 hours of Continuing Education Units (CEUs) every 3 years. Member required to track CEUs.
SECP Certification for Growers; online training / pass test. No CEUs required. Available February Only.

(over)

Certification of Irrigation and Nitrogen Management Plan (INMP)

There are **TWO** common ways to have an INMP Certified:

1) Grower Self-Certification

if not already, growers may take a 2-3 hour online training, pass test with 80% or greater and maintain 3 hours of Continuing Education Units (CEUs) every 3 years to self-certify INMPs Worksheets. Growers are required to track CEUs and will be kept updated via emails directly from the California Department of Food and Agriculture's (CDFA) Fertilizer Research and Education Program (FREP).

As of September 2022, the INMP Training for Grower Self-Certification is available online only. Visit the CDFA Website at: <https://www.cdfa.ca.gov/is/ffldrs/frep/training.html> for more information. In addition, once eligible, growers may find information on online training CEUs opportunities:

Or, scan QR Code with Smart Phone to read more about Grower Self-Certification...



2) Certified Crop Advisor (CCA) who assists Growers and who is willing

CCAs who have their California Nitrogen Management Specialty certification is a common method to ensure INMP Certification. Note, some Pest Control Advisors (PCA) have their CCA qualifications, some do not. It is up to the grower to check their qualifications, not CGSP.

**If you do not have a computer or cannot find a computer to use to complete online trainings, please call the CGSP office to schedule an appointment.*

Certification of Sediment and Erosion Control Plan (SECP)

There is **ONE** common way to have a SECP Certified:

1) Grower Self-Certification

if not already, growers may take an online training / pass test. No CEUs required.

Visit CGSP Website at: www.cgsubwatershed.com for more information and to access Member Online SECP Self-Certification Training.



Available February 1 – 28, 2023 Only!

Keep SECP current with annual updates, as necessary.

Schedule for Member Services

Colusa County
Resource Conservation District
100 Sunrise Blvd, Colusa CA

Call: 530-473-9346
Email: liz@colusarc.d.org
In-Person Service: Appointments, required;
walk-up help not guaranteed

Glenn County
Resource Conservation District
132 N Enright Avenue, Suite C, Willows CA


Call CGSP Main Office: 530-934-8036
Email: info@cgsubwatershed.com
In-Person Service: Appointments, required;
walk-up help not guaranteed

2022 Crop Year REPORTING Tools

- ✓ Due March 1, 2023
- ✓ Submit in Member Online DMT

- The DMT is best used with **Google Chrome** or other newer web browsers (do not use Internet Explorer).
- To access the “Member Online Data Management Tool”, visit www.cgsubwatershed.com



- In the DMT, read bullet point instructions, they have changed this year! It is important Reporters complete as much as possible prior to calling CGSP for assistance.
- In the DMT, on the INMP Summary Report – #2 INMP Reporting Page – if you do not know numerical values for all fields, you must enter zero “0”. Value will cause an error message. Make notes if you do not take samples. For example, Available N Carryover in Soil (lbs/acre) = 0 and Notes = do not sample soil. Scroll down to proceed to next question.
- In the DMT, on the Final Page = SECP Plan, please remember to check the box “I have read and understand...” and then click on the SAVE button. 

Check “Overall Complete Status?” to verify you are **COMPLETE!**

			Owner ID	Owner Name	Reporter ID	Reporter Name	Total Irrigated Acres	Overall Completion Status?	INMP Reporting?	INMP Certification?	Outreach and Training?	Irrigation Wells?	Irrigation Uniformity?	Crop Fertility Plan?	SECP Plan?	Balance Due
			CGSP99999	JOHN DOE FARMS	CGSP99999	JOHN DOE FARMS	220.00	COMPLETE	COMPLETE	COMPLETE	COMPLETE	COMPLETE	COMPLETE	COMPLETE	COMPLETE	630.00

Ensure it says



COMPLETE

2023

Crop Year

PLANNING Tools

- ✓ **Complete by March 1, 2023**
- ✓ **Keep On-Farm – DO NOT RETURN**

□ **>> Irrigation and Nitrogen Management Plan Worksheet**
See attached.

Everyone is required to complete this whether in a Low Vulnerability Area or High Vulnerability Area (HVA) for each Crop Year moving forward.

- INMP Worksheet must be Certified if Parcel(s) are in an HVA
- INMP Worksheet must be Certified if Parcel(s) are identified as an Outlier status (In the DMT, on the INMP Summary Report – #3 INMP Certification Page – is your notification and instructions on how to view and download your Grower Feedback Report to determine Outlier status. → Orange = Outlier)

** You may make copies of the hard copy provided or visit www.cgsubwatershed.com
>> *Member Resources* >> *Irrigation & Nitrogen Management Plan Information Sources*
for an Excel or PDF fillable copy.

** See www.cgsubwatershed.com for other INMP resources to help with questions.

□ **>> INMP Worksheet QUESTION #2. – Crop Evapotranspiration (ET, inches)**
See attached.

Review *Seasonal Crop Evapotranspiration (ET) Estimates*. Look for your crop, age if applicable, and input numerical ET value.

□ **>> INMP Worksheet QUESTION #3. – Anticipated Crop Irrigation (inches)**

Calculate from average acre feet irrigated. For example, 3-acre feet is 36 inches per year. If efficiency is known calculate accordingly.

□ **>> INMP Worksheet QUESTION #4. – Irrigation Water N Concentration (ppm or mg/L, as NO₃-N) – Sampling your irrigated well water in Spring/Summer 2023.**
See attached.

Review *Guidelines for Irrigation Well Sampling for INMP Worksheet*. If you are in an irrigation district and use surface water, your Nitrogen level is likely below 1.0 ppm or mg/L.

IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP)

WORKSHEET INSTRUCTIONS

Complete an Irrigation and Nitrogen Management Plan (INMP) Worksheet for every field or management unit in your membership. All INMP Worksheets must be kept on farm for all fields/parcels and made available upon request during inspections by the Central Valley Regional Water Quality Control Board (Regional Board).

Each section heading below (all CAPS) corresponds to the section heading on the INMP Worksheet. The numbered references correspond to each numbered box on the INMP Worksheet.

IRRIGATION AND NITROGEN MANAGEMENT PLAN

Enter the membership identification number (**Member ID#**) issued by your water quality coalition and the **Member Name** associated with this membership.

Indicate if the field(s)/management unit you are writing the plan for was identified as a **Statistical Outlier** by the Coalition for the previous crop year. The Coalition conducts a statistical analysis on the data provided from members for the nitrogen applied and nitrogen removed (based on yield) to determine statistical outliers. The Coalition provides annual feedback to members on reported nitrogen use including if the field/management unit was identified as a statistical outlier. If the field/management unit was identified as a statistical outlier by the Coalition in the previous crop year, mark "Yes". Please contact your Coalition for more information about this notification and statistical outliers.

Enter the **Crop Year (Harvested)**. Information on INMP Worksheets should be based on the calendar year in which harvest was completed. This includes winter crops (i.e. winter cereal grains and some citrus crops such as navel oranges) for which fertilization may have occurred in the previous calendar year but harvest was completed in the following calendar year. Fertilization does not need to occur within the same calendar year to be considered a part of the current crop year.

PARCEL MANAGEMENT

Use this table to account for all parcels for which the plan applies. Multiple parcels, portions of parcels, or fields (not to exceed 640 acres) may be included in a single plan if they all have the same:

- Crop
- Fertilizer inputs
- Irrigation management
- Nitrogen management practices

Enter the **Assessor's Parcel Number (APN)** and **County** for each parcel associated with your plan.

Enter the **Crop** name (almonds, walnuts, table grapes, wine grapes, raisin grapes, watermelons, canning tomatoes, fresh market tomatoes, etc.). Check with your Coalition regarding specific crop naming conventions. If you have a permanent crop, enter the **Crop Age** (in years).

Enter the **Irrigated Acres** for each parcel or portion of parcel to which this plan applies.

Sum the irrigated acres from each parcel for the **Total Acres** covered under the plan.

Use the **Comment/Notes** box to provide any further information that may be pertinent to the worksheet (e.g. nitrogen use efficiency, nitrogen removal rates, reasons for substantial differences between plan and actual numbers, etc.).

IRRIGATION MANAGEMENT

***Items with an asterisk shall be submitted to the Coalition on the INMP Summary Report.**

#1. Irrigation Method*. Check the box to indicate the irrigation method used the most for crop irrigation (primary irrigation) during the growing season for the field/management unit under this plan. If applicable, indicate any secondary irrigation systems. Secondary irrigation systems include those used for crop germination, frost protection, crop cooling, or salinity management.

#2. Crop Evapotranspiration. Enter the potential crop evapotranspiration (ET_c) in inches anticipated for the season. Evapotranspiration rates are provided by geographical location, and multiplied by a crop-specific coefficient to estimate the amount transpired by your crops. This information and additional resources may be available from your Coalition.

#3. Anticipated Crop Irrigation. Enter the amount of irrigation water in inches expected to be applied over the course of the season. This information and additional resources may be available from your Coalition.

#4. Irrigation Water N Concentration. Enter the concentration of nitrogen in the irrigation water used on your crop as parts per million (ppm) or milligrams per liter (mg/L). The concentration of nitrogen in your irrigation water can be obtained from sources such as local district testing, laboratory analysis, or other sources. These results can be reported as either Nitrate as N, nitrate-nitrogen, or NO₃-N.

#5. Irrigation Efficiency Practices*. Check all boxes that apply to indicate irrigation efficiency practices used on your fields during the season. Indicate if, to your knowledge, the parcels have been laser leveled.

HARVEST / YIELD INFORMATION

***Items with an asterisk will need to be submitted to the Coalition on the INMP Summary Report.**

#6. Production Unit*. This is the standard unit that is the basis for your nitrogen management planning (tons, pounds, bins, cartons, bales, etc.); refer to your Coalition for specific production unit lists. If you use a production unit that is not pounds or tons, please provide the weight of the reported unit (i.e. "28 lb lug boxes" instead of "lug boxes"), as crops often have multiple possible harvest production units.

#7. Harvested Yield*. This includes all crop yield harvested for the season. For pre-season planning, use **Box 7A** to fill in the Expected Yield for the season. The Expected Yield should be reported on a per-acre basis for the field or management unit covered by the plan. Expected Yield expectations will guide nitrogen management decisions and will inform the **TOTAL NITROGEN Recommended (14A)** to be used in the Nitrogen Management section below. If you grow grain crops and harvest straw separately, contact your Coalition.

NITROGEN MANAGEMENT

***Items with an asterisk will need to be submitted to the Coalition on the INMP Summary Report.**

#8. Nitrogen Efficiency Practices*. Check all boxes that apply to indicate any nitrogen efficiency practices used on your fields during the season.

(Column A) Recommended/Planned N: Complete the boxes in the Nitrogen Sources section in **Column A** based on the anticipated Nitrogen Sources required to obtain the Expected Yield from **Box 7A**. The values listed in **Column A** require certification. Use crop recommendations from CDFA, UCCE, NRCS, commodity organizations or site-specific knowledge to appropriately estimate the amount of nitrogen (N) necessary. Use Recommended/Planned N totals for each source of N and schedule applications for the crop year. Use additional tools/spreadsheets to plan timing for each application. Proper scheduling of N applications and irrigations is essential for efficient nitrogen management.

Recommended / Planned TOTAL NITROGEN (14A): All Nitrogen Sources in this section should be the total for **Recommended / Planned TOTAL NITROGEN (14A)**.

$$\text{Recommended / Planned TOTAL NITROGEN (14A)} = 9A + 10A + 11A + 12A + 13A$$

Complete the following sections based on the nitrogen source:

- **(9A and 9B) Soil – Available N in Root Zone.** Represents nitrogen in the soil root zone that is available to the crop during the growing season. Enter the amount of residual soil nitrogen based on soil samples or other available data.
- **(10A and 10B*) N in Irrigation Water.** Enter the amount of nitrogen applied via irrigation water over the course of the crop year in pounds per acre. For planning (**10A**), this value is calculated based on the **#3. Anticipated Crop Irrigation** and the **#4. Irrigation Water N Concentration**. For the Actual N column (**10B**), this value is calculated based on the *actual* crop irrigation and irrigation water N concentration. To calculate N in irrigation water, use the following formula:

$$\text{N concentration (ppm or mg/L)} \times \text{inches of irrigation applied} \times 0.226$$

Nitrate as nitrogen is also referred to as Nitrate as N, nitrate-nitrogen, or NO₃-N.

- **(11A and 11B*) Organic Amendments.** Organic Amendments include any nutrient applications from sources that do not have a guaranteed nutrient content, such as compost and manure applications. Applied organic amendments should be reported as the amount of nitrogen available to the plant during the crop year, in pounds per acre.
- **(12A and 12B*) Dry/Liquid Fertilizer N.** The Dry/Liquid Fertilizers include any nitrogen-containing product with a guaranteed nutrient content. This number should be reported as the amount of nitrogen applied as pounds per acre; this may be different than the amount of fertilizer applied which may include other nutrients.
- **(13A and 13B*) Foliar Fertilizer N.** Foliar nitrogen applications include any nitrogen-containing product applied to the crop canopy or above ground plant parts, and should be reported in pounds per acre.

(Column B) Actual N: Fill in the **Actual N** in Column B based on actual applied nitrogen amounts. This should be completed after the crop is harvested for each of the nitrogen sources outlined above. **These values do not require certification.** Use the Recommended/Planned N schedule to guide nitrogen applications throughout the growing season. Actual application amounts and timing can be adjusted based upon changing conditions (weather, pest damage,

expected yield, tissue samples, etc.). The information in this column should reflect the actual application during the Crop Year. Refer to the Nitrogen Source section above for additional instructions and definitions.

Actual TOTAL NITROGEN (14B): Actual applied Nitrogen Sources should be the total for Actual **TOTAL NITROGEN (14B)**.

$$\text{Actual TOTAL NITROGEN (14B)} = 9\text{B} + 10\text{B} + 11\text{B} + 12\text{B} + 13\text{B}$$

INMP CERTIFICATION

Plans for parcels in a **High Vulnerability Area (HVA)** to groundwater must be certified. Please contact your Coalition for more information regarding the vulnerability to groundwater of your parcels. The person certifying the plan must complete the **INMP Certification** section including signature, date, and method of certification. Any plan certifier should also initial the INMP Worksheet page in the box in the bottom right corner.

Any INMP requiring certification must be certified by an Irrigation and Nitrogen Management Specialist, such as:

- Crop Advisers certified by the American Society of Agronomy (CCA). Any Certified Crop Adviser who certifies an INMP must also have completed the nitrogen management training program offered by the University of California Agriculture and Natural Resources (UCANR) and the California Department of Food and Agriculture (CDFA).
- Certified Professional Soil Scientists (CPSS)
- Certified Professional Agronomists (CPAg)
- Technical Service Providers (TSP) certified in nutrient management in California by the Natural Resources Conservation Service (NRCS)
- Certified Agricultural Irrigation Management Specialists (CAIS) certified by The Irrigation Association.

Additionally, plans may be self-certified by the Member if:

- The certifying Member has attended the California Department of Food and Agriculture (CDFA) or other approved training program for INMP certification. The Member must retain written documentation of their attendance in the training program.
- The certifying Member adheres to a site-specific recommendation from the Natural Resources Conservation Service (NRCS Nutrient Management Plan) or the University of California Cooperative Extension (UCCE). The Member must retain written documentation of the recommendation.

If you do not apply nitrogen fertilizer:

- **You must state that you do not apply nitrogen fertilizer to the field on your INMP Worksheet.**

IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) WORKSHEET

Member ID #: _____ Member Name: _____

Was this management unit identified as a statistical outlier by the Coalition last year?
 Yes No

Crop Year (Harvested): _____

PARCEL MANAGEMENT					
Management Unit (MU) or Field	APN	County	Crop	Crop Age (Years)	Irrigated Acres
Total Acres:					

Comments/Notes:

IRRIGATION AND NITROGEN MANAGEMENT PLAN (INMP) WORKSHEET

Member ID: _____ INMP Field or MU: _____ Crop: _____ Total Acres: _____

IRRIGATION MANAGEMENT

1. Irrigation Method*	Pre-Season Planning	
<p>(check one for Primary; if applicable, check one for Secondary)</p> <p>Primary Secondary¹</p> <p><input type="checkbox"/> <input type="checkbox"/> Drip</p> <p><input type="checkbox"/> <input type="checkbox"/> Micro Sprinkler</p> <p><input type="checkbox"/> <input type="checkbox"/> Furrow</p> <p><input type="checkbox"/> <input type="checkbox"/> Sprinkler</p> <p><input type="checkbox"/> <input type="checkbox"/> Border Strip</p> <p><input type="checkbox"/> <input type="checkbox"/> Flood</p>	2. Crop Evapotranspiration (ET, inches)	
	3. Anticipated Crop Irrigation (inches)	
	4. Irrigation Water N Concentration (ppm or mg/L, as NO ₃ -N)	

5. Irrigation Efficiency Practices* (Check all that apply)

- | | |
|---|--|
| <input type="checkbox"/> Laser Leveling
<input type="checkbox"/> Use of ET in scheduling irrigations
<input type="checkbox"/> Water application schedule to need
<input type="checkbox"/> Use of moisture probe (e.g. tensiometer) | <input type="checkbox"/> Soil Moisture Neutron Probe
<input type="checkbox"/> Pressure Bomb
<input type="checkbox"/> Other _____
<input type="checkbox"/> Other _____ |
|---|--|

HARVEST / YIELD INFORMATION

Harvest / Yield Information		Expected (A)	Actual (B)
6. Production Unit (lbs, tons, etc.)	7. Harvested Yield*		

NITROGEN MANAGEMENT

8. Nitrogen Efficiency Practices* (Check all that apply)	Nitrogen Sources	Recommended/Planned N (A)	Actual N (B)
<input type="checkbox"/> Split Fertilizer Applications <input type="checkbox"/> Irrigation Water N Testing <input type="checkbox"/> Soil Testing <input type="checkbox"/> Tissue/Petiole Testing <input type="checkbox"/> Fertigation <input type="checkbox"/> Foliar N Application <input type="checkbox"/> Cover Crops <input type="checkbox"/> Variable Rate Applications using GPS <input type="checkbox"/> Other: _____ <input type="checkbox"/> Other: _____	9. Soil – Available N in Root Zone (Annualized, lbs/ac)		
	10. N in Irrigation Water* (Annualized, lbs/ac)		
	11. Organic Amendments* (Manure/Compost/Other, lbs/ac estimate)		
	12. Dry/Liquid Fertilizer N* (lbs/ac)		
	13. Foliar Fertilizer N* (lbs/ac)		
	14. TOTAL NITROGEN (lbs/ac)		

¹ A secondary irrigation system could be used for crop germination, frost protection, crop cooling, etc.

*(**Bold Text**) Data to be reported to the Coalition on the INMP Summary Report, based on Actual Yield and Actual N.

Plan Certifier Initials

INMP CERTIFICATION

The person signing this Irrigation and Nitrogen Management Plan (INMP) certifies, under penalty of law, that the INMP was prepared under his/her direction and supervision, that the information and data reported is to the best of his/her knowledge and belief, true, accurate, and complete, and that he/she is aware that there are penalties for knowingly submitting false information. Where the person signing the INMP is not the Member, he/she may rely on the information and data provided by the Member and is not required to independently verify the information and data.

The person signing the INMP below further certifies that he/she used sound irrigation and nitrogen management planning practices to develop irrigation and nitrogen application recommendations and that the recommendations are informed by applicable training for meeting the crop's agronomic needs while minimizing nitrogen loss to surface water and groundwater. Where the person signing the INMP is not the Member, he/she is not responsible for any damages, loss, or liability arising from subsequent implementation of the INMP by the Member in a manner that is inconsistent with the INMP's recommendations for nitrogen application. **This certification does not create any liability for claims for environmental violations.**

Certification:

- Certified INMP Specialist (e.g. Certified Crop Adviser who has completed the CDFA training program)
- Self-Certified by Member who has completed the CDFA training program
- Self-Certified by Member who follows NRCS or UC site-specific recommendations (documentation required)
- I do not apply nitrogen

I, _____, certify this INMP in accordance with the statement above.

_____ (Signature) _____ (Date)

If the certifier is not the Member, the Member additionally agrees as follows:

I, _____, Member, have provided information and data to the certifier above that is, to the best of my knowledge and belief, true, accurate, and complete, that I understand that the certifier may rely on the information and data provided by me and is not required to independently verify the information and data, and that I further understand that the certifier is not responsible for any damages, loss, or liability arising from subsequent implementation of the INMP by me in a manner that is inconsistent with the INMP's recommendations for nitrogen application. I further understand that the certification does not create any liability for claims for environmental violations.

_____ (Signature) _____ (Date)

Seasonal Crop Evapotranspiration (ET) Estimates (inches per year)

These estimates should be adjusted as necessary for crop age, crop vigor, atypical density, etc.

***Modified for Colusa Glenn Subwatershed Program Crop Types

CROP	Colusa/Glenn	CROP	Colusa/Glenn
Alfalfa	54.7	Melon	20.7
Almond, mature	49.6	Misc Fruit Tree	42.0
Almond, 4th leaf	44.7	Misc Nut Tree	43.7
Almond, 3rd leaf	37.2	Misc Row Crop	NO DATA
Almond, 2nd leaf	27.3	Misc Truck Crop	22.1
Almond, 1st leaf	19.9	Misc Vegetable	22.1
Apricot/Aprrium	43.6	Nursery	NO DATA
Asparagus	22.1	Oat	28.7
Barley	28.7	Olive (table)	41.7
Bean - Green	22.1	Olive (oil)	33.4
Bean Dry	28.7	Onion	22.1
Berry	NO DATA	Orange	36.1
Blackberry	24.0	Other	NO DATA
Blueberry	40.0	Pasture	55.6
Cherry	43.6	Pea	28.7
Citrus	42.9	Peach/Nectarine, mature	40.8
Citrus	36.1	Peach, 5th leaf	32.6
Corn - Fodder/Silage	32.4	Peach, 4th leaf	28.6
Corn - Grain	32.4	Peach, 3rd leaf	26.5
Corn - Popcorn	32.4	Peach, 2nd leaf	18.4
Corn - Sweet	32.4	Peach, 1st leaf	11.0
Cotton	35.9	Pear	43.6
Cover Crop	SPECIFIC CROP	Pecan, mature	42.9
Cucumber	20.7	Pecan, 3rd leaf	36.4
Fallow	6.5	Pecan, 2nd leaf	21.4
Flower/Ornamental	42.2	Pecan, 1st leaf	12.9
Grain Hay	28.7	Pepper	27.1
Grape - Other	32.2	Persimmon	42.0
Grape - Rootstock	NO DATA	Pistachio, mature	42.6
Grape - Wine	41.5	Pistachio, 5th leaf	34.1
Greenhouse	NO DATA	Pistachio, 4th leaf	29.8
Hay/Forage	SPECIFIC CROP	Pistachio, 3rd leaf	27.7
Herb/Spice	42.2	Pistachio, 2nd leaf	19.2
Kale	22.1	Pistachio, 1st leaf	11.5
Kiwi	48.0	Plum/Pluot	43.6
Lavender	42.2	Pomegranate	42.0
Leeks	22.1	Prune, mature	43.7

Seasonal Crop Evapotranspiration (ET) Estimates (inches per year)

These estimates should be adjusted as necessary for crop age, crop vigor, atypical density, etc.

*****Modified for Colusa Glenn Subwatershed Program Crop Types**

CROP	Colusa/Glenn	CROP	Colusa/Glenn
Prune, 5th leaf	34.9	Sunflower	29.9
Prune, 4th leaf	30.6	Tomato - Fresh Market	27.1
Prune, 3rd leaf	28.4	Tomato - Processing	27.1
Prune, 2nd leaf	19.6	Triticale	28.7
Prune, 1st leaf	11.8	Turf	45.0
Pumpkin	20.7	Vine Seed	28.7
Raspberry	12.0	Walnut, mature	42.0
Ryegrass	28.7	Walnut, 3rd leaf	35.7
Safflower	29.9	Walnut, 2nd leaf	21.0
Seed Crop	28.7	Walnut, 1st leaf	12.6
Sorghum/Milo	32.4	Watermelon	20.7
Squash	20.7	Wheat	28.7
Strawberry	28.7	Winter Grain	NO DATA
Sudan Grass	28.7	Winter Vegetable	NO DATA

Guidelines for Irrigation Ag Well Sampling for INMP Worksheet*

Analyses

Nitrate as N (NO₃-N)

Sampling containers, supplies and documentation

Container

The following container is required for each ground water sample and, if necessary, may be provided by a laboratory or by your PCA/CCA, if willing.

8 ounces is all that is necessary (any clean plastic bottle will do)

Supplies / documentation

Chains of custody, labels (Chains of Custody may be filled out by the well Owner/Reporter or PCA/CCA or whoever is responsible for delivery of the sample to the lab), Ziploc bags, blue ice or ice, and ice chest.

Sampling procedures

Sampling may be conducted by the Owner/Reporter of the well, or a willing third party (PCA/CCA/Other).

1. Before sampling the well, be sure to run the pump long enough to ensure the sample represents the ground water source.
2. Sample should be taken from a point closest to the well.
3. Sample should **not** be taken at or after any fertigation ports; sample must be from raw water source.
4. Make sure sample point is clean and free from debris. Flush out sample point before sampling.
5. When filling up the sample containers, ensure flow of water is slow and consistent so that overflowing does not take place.
6. Replace lid immediately after filling. Follow the same procedure for each sample container.
7. Once they are filled, dry off sample bottles, complete and attach labels identifying the well sampled (by name or well number) to sample container.
8. Immediately place on ice in a cooler.
9. To ensure the bottles are not at any time submersed in water, place bottles in a Ziploc bag. This ensures against cross-contamination with the ice/melted water.
10. Complete chains of custody including analyses to be run, date and time of sampling of the well and a form of well identification (name or well number).
11. Sample containers should be kept cool (preferably in a refrigerator) while being stored for shipment.
12. Ice should be replaced prior to shipment.
13. Samples should be transported to the laboratory as quickly as possible (within 24 hours), preferably overnight.

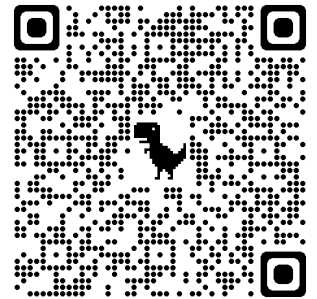
CGSP will provide additional assistance to any well Owner/Reporter, if needed.

Simple Guidelines for Domestic Drinking Water Well Sampling Requirement by California Regional Water Quality Control Board, Central Valley

For COMPLETE requirements visit their website:

https://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/drinking_water/

Or, scan QR Code with Smart Phone to read more about it and download forms.



Who? Reminder, this is a NEW requirement by the “Central Valley Regional Water Quality Control Board” (Regional Board or Water Board).

What? On-Farm or “Domestic” Drinking Water Well Sampling on ENROLLED Parcels for nitrate (NO₃-N) and nitrite (NO₂-N) as nitrogen levels.

When? Due by December 31, 2022; must use qualified Certified Environmental Laboratory Accreditation Program (ELAP) lab for direct submittal of sample data results to Regional Board.

Questions on Regional Board enforcement procedures?

Call Regional Board’s Sacramento Office at (916) 464-4611 or
Email irrlands@waterboards.ca.gov

Why? Per Regional Board, “high levels of nitrate found in drinking water wells impact public health. Excess nitrate in soil is often found in rural and agricultural areas. The most common sources of nitrate are fertilizer, livestock waste, and septic systems. Nitrate in soil is highly mobile and can be easily transported to groundwater. The purpose of this monitoring is to identify drinking water wells that have nitrate concentrations exceeding the drinking water standard and notify well users of the potential for human health risks.”

As a Member, if you had a Domestic Drinking Water Well identified in your reporting, you should have received a letter directly from the California Regional Water Quality Control Board, Central Valley in early 2022 detailing your requirements to meet this regulation. This is their regulatory program, please read their instructions thoroughly and call them with your questions.

NOTE, locally at CGSP, we DO NOT know if your sample has been processed; again, this regulation is being managed by Regional Board.

This requirement is for ILRP ENROLLED parcels only that have a domestic drinking water well used for human consumption. If there is no human consumption, call or email the Regional Board directly.

CGSP will provide additional assistance to any well Owner/Reporter, if needed.