

Nitrogen Management Plan Worksheet Instructions

CROP & MEMBER INFORMATION

1. Enter the **Crop Year** for which this report is based upon. Information in NMP Worksheets should be based upon the calendar year a crop is harvested (i.e. winter cereal grains and some citrus should report information based on the year they are harvested even if fertilization is in the previous year). Newly planted trees or vines should report amount of nitrogen applied even if no crop is harvested.
2. Enter your VCAILG identification number (**VCAILG ID#**).
3. Enter the **Name** of whoever is certifying the plan.
4. Enter the Assessor's Parcel Number (**APN**).
5. Enter the **Field Identification (ID)** for each unique management unit; the field ID can be an alpha/numeric, your internal field identifier or the site number used on your pesticide use permit. If the same crop and same nitrogen application is used on more than one field, enter all APN's and/or field numbers where the information applies.

CROP NITROGEN MANAGEMENT PLANNING

6. Enter the **Crop** name (avocados, strawberries, celery, raspberries, oranges, tomatoes, peppers, etc.).
7. Enter the standard **Production Unit**. This is the standard unit that is the basis for your nitrogen management planning (tons, pounds, cartons, bales, etc.). For irrigated pasture, use University of California recommended nitrogen rates needed for desired growth..
8. Enter your **Projected Yield** per acre for the management unit for the upcoming season. Realistic yield expectations will help guide N management decisions.
9. Enter the amount of **Nitrogen Recommended** (estimated amount needed) to be applied to meet your expected yield. Use crop recommendations from CDFA, UCCE, NRCS, commodity organizations or site specific knowledge based on previous experience to appropriately estimate the amount of Nitrogen (N) needed. This should be the same number used in #27, Total N Applied and Available.
10. Enter total irrigated **Acres** for the management unit covered by each worksheet.

POST PRODUCTION ACTUALS

11. **Actual Yield** is the total amount of crop harvested in units per acre. This total should be an average of the production from a management unit covered by this Nitrogen Management Plan. Compare the Actual Yield to the total amount of N that was available for the crop. Assess if your N applications were appropriate for the yield achieved. Use available resources or site experience to determine the appropriate amount compared to the yield.
12. **Total N Applied** is the amount of nitrogen applied in pounds per acre. #12 should equal the total indicated in #27, column #16.
13. This information will be used to estimate the amount of **N Removed** each year to assist tracking of Nitrogen after application to a crop. Information will be updated over time regarding how to estimate N removed. Check available values at: <http://www.ipni.net/app/calculator/home>, <http://plants.usda.gov/npk/main>, or talk to your local Farm Advisor or NRCS staff.
14. **Add any Notes** to the worksheet such as information about circumstances faced during the crop season that impact your recommended nitrogen applications #9 such as a larger or smaller crop than projected. Application amounts and timing can be adjusted based upon changing conditions (weather, pest damage, expected yield, etc.).

N APPLICATIONS / CREDITS

15. Numbers in the **Recommended/Planned N** column are based on amounts determined by individuals described in #31-33. In this column, allocate how much N you plan to apply from each of your available sources and total each section. Use your Recommended/Planned N totals for each source of N and schedule your applications for the crop year. You can use additional tools/spreadsheets to plan timing for each application. Proper scheduling of N applications is an essential component of a Nitrogen Management Plan.
16. Numbers in this column are from the **Actual** amounts of **nitrogen** applied and should be entered after the crop is harvested. 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, etc.).
17. **Nitrogen Fertilizers** are any manufactured nitrogen-containing products applied to a field.
18. Enter **Dry or Liquid** nitrogen-containing product applied to the field, if any, in pounds per acre.
19. Enter nitrogen containing product applied to the crop canopy or above ground plant parts, if any, in pounds per acre.

VENTURA COUNTY NITROGEN MANAGEMENT PLAN WORKSHEET			
NMP Management Unit: _____			
1. Crop Year (Harvested)	4. APN(s):	5. Field(s) ID	Acres
2. VCAILG ID#			
3. Name:			
		15. Recommended/Planned N	16. Actual N
6. Crop	7. Production Unit	17. Nitrogen Fertilizers	
8. Projected Yield (units/ac)	9. N Recommended (lbs/ac)	18. Dry/Liquid N (lbs/ac)	
10. Acres		19. Foliar N (lbs/ac)	
Post Production Actuals		20. Organic Material N	
11. Actual Yield (units/ac)	12. Total N Applied (lbs/ac) (22+26)	21. Available N in Manure/Compost (lbs/ac estimate)	
13. N Removed (lbs N/ac)*	14. Notes:	22. Total Available N Applied (lbs/ac) (18+19+21)	
		23. Nitrogen Credits(est.)	
		24. Available N carryover in soil (annualized, lbs/ac)	
		25. N in Irrigation water (annualized, lbs/ac)	
		Irrigation sources	
		26. Total N Credits (lbs/ac) (24+25)	
		27. Total N Recommended & Applied (22+26)	
		Actual N Applied (12) vs Actual N Removed (13)	
28. CERTIFIED BY:		29. CERTIFICATION METHOD	
DATE:		30. Self-Certified, approved training program attended	
		31. Self-Certified, UC or NRCS site recommendation	
		32. Certified Crop Advisor	

* Note: N Removed is only required if information is available for your crop type. Check for available values at: www.ipni.net/app/calculator/home

20. **Organic Material N** is any product applied to a crop that is not manufactured,.
21. Estimate in pounds per acre the amount of nitrogen in **Animal Manure or Compost** that is applied to a field.
22. **Total Available N Applied** is the sum total of lines #18, #19 and #21.
23. **Nitrogen Credits** is the estimated amount of nitrogen that will become available for crop uptake during the growing season.
24. **Available N Carryover in the Soil** is typically estimated by analyzing a soil sample. This estimate should be reported in pounds per acre available to the crop during the growing season
25. **Nitrogen in Irrigation Water** is estimated by analyzing an irrigation water sample to determine the nitrogen content. This estimate should be reported in pounds per acre available throughout the crop season based on the amount of irrigation water applied to the crop
26. **Total N Credits** is the sum of #24 and #25.
27. **Total N Recommended and Applied** is the sum of #22 and #26. The first box in this row (under column #15) should be the same as #9 and the second box in this row (under column #16) should be the same numbers as #12.

PLAN CERTIFICATION

29. **Certification Method.** Place an "X" in the box for the method used.
28. Place for the signature of person certifying this plan.