**Implementation Log**

**for Nutrient Management (CPS 590) - Reduce Fertilizer Application Rate by 15%**

1. **Where to find recommended/standard fertilizer (nitrogen) application rate for your crop**

This refers to the recommended N fertilizer application rate for your crop in a complete crop cycle. Please check the [CDFA - FREP - California Crop Fertilization Guidelines](https://www.cdfa.ca.gov/is/ffldrs/frep/FertilizationGuidelines/), and find the recommended N application rate, based on your crop type, age if for a tree crop, soil residue nitrogen prior to fertilizer application, and/or estimated crop yield.

1. **What rate I should use to Implement Nutrient Management practice?**

Your total N applied during the whole crop fertilization cycle should be 15% or less than the recommended rate.

For example, the maximum N application rate for processing tomatoes recommended by CDFA FREP is: 200 lbs./acre [30 lbs./ac (pre-planting) + 5~10 lbs./ac (starter N) + 160 lbs./ac (fertigation)].

Your total N application rate cannot exceed 170 lbs./acre.

1. **How to calculate nitrogen (N) in lbs. from fertilizer labels.**
2. Read labels on the bag or container, for example: 10-10-10 (10% N, 10% P2O5, and 10% K2O)
3. For a 50-lb bag of dry fertilizer: total N =50 lbs. x 10% = 5 lbs. N
4. For liquid fertilizer: product weight per gallon =10 lbs per gallon

So, for a 50-gallon container of liquid fertilizer: total N = 50 gallons x 10 lbs/gallon x 10% =50 lbs N

**Instructions for the log table**

Blue content in the farm operation log on the next page are examples and must be deleted before you enter your application information. Ensure that the CDFA recommended N application rate is within the range stated at [CDFA FREP Recommended N Application Rate](https://www.cdfa.ca.gov/is/ffldrs/frep/FertilizationGuidelines/) webpage.

**Farm Operation Log for Nutrient Management Implementation**

*Blue content in the farm operation log on the next page are examples and must be deleted before you enter your application information. Ensure that the CDFA recommended N application rate is within the range stated at* [*CDFA FREP Recommended N Application Rate*](https://www.cdfa.ca.gov/is/ffldrs/frep/FertilizationGuidelines/) *webpage.*

**Crop name**: Processing tomatoes

**For tree crop -** **age and trees/acre:** NA

**The estimated yield**: 50 tons/acre

**Period of the crop cycle**: Jan 2024 – Sept 2024

**CDFA recommended N application rate**: 180 lbs./acre

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Time of N application** | **Fertilizer label** | **Total lbs. & acres applied** | **Application rate** | **Notes** |
| 2/20/24 – pre-planting | 10-10-10 | 200 lbs. to 2 acres | 10 lbs./ac |  |
| 5/2/24 – starter N | 10-10-10 | 100 lbs. to 2 acres | 5 lbs./ac |  |
| 5/20/24 fertigation | 26-4-5, 26 lbs./gallon | 100 gallons to 2 acres | 6.76 lbs./ac |  |
| 6/5/24 - fertigation |  |  |  |  |
| 6/20/24 - fertigation |  |  |  |  |
| 7/7/24 - fertigation |  |  |  |  |
| 7/21/24 - fertigation |  |  |  |  |
| 7/30/24 – fertigation, last application |  |  |  |  |
| **Total** |  |  | **150 lbs/ac** |  |

**Total N reduction (%) =** (180-150)/180 = 16.67%