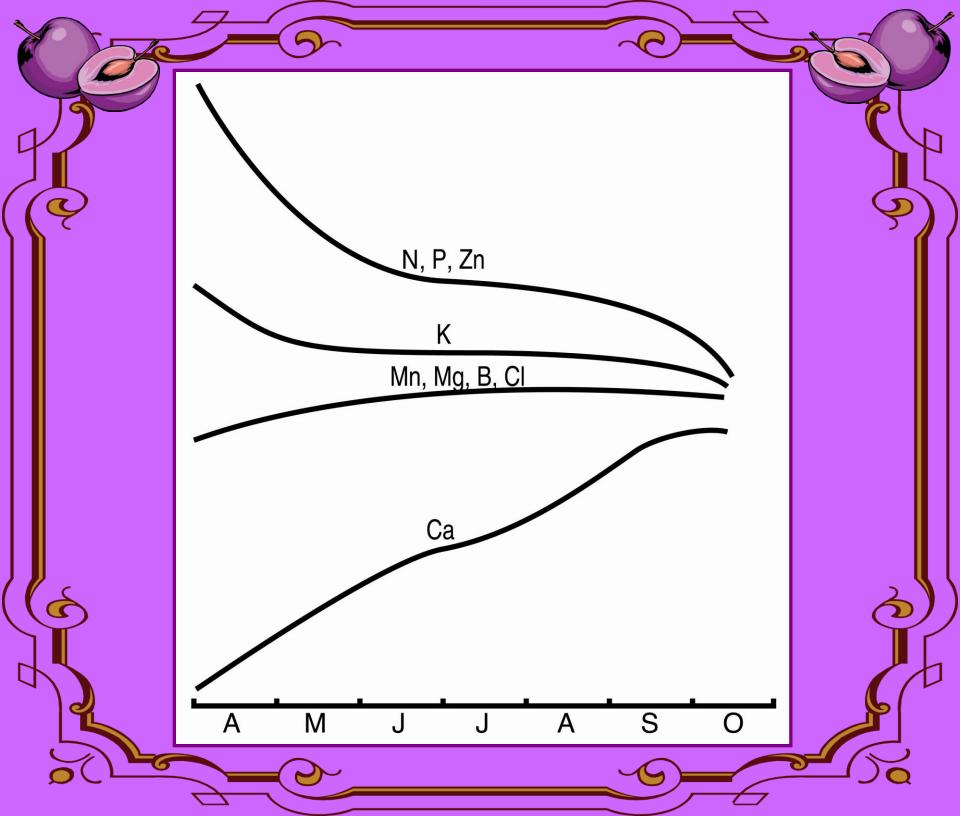
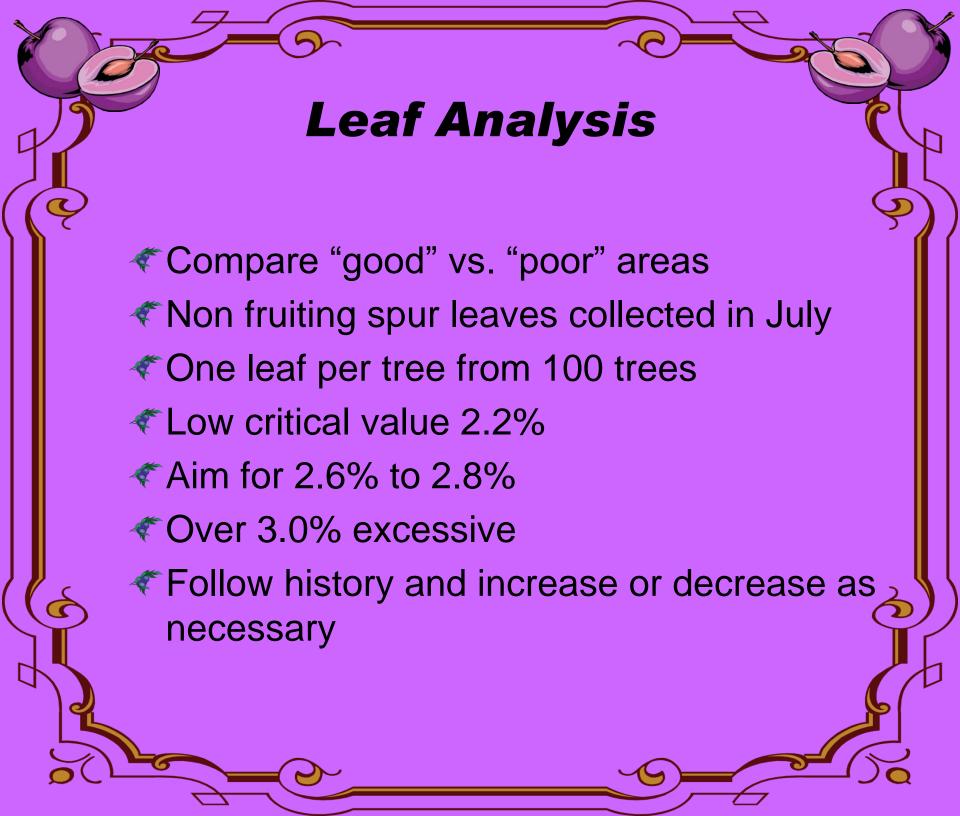
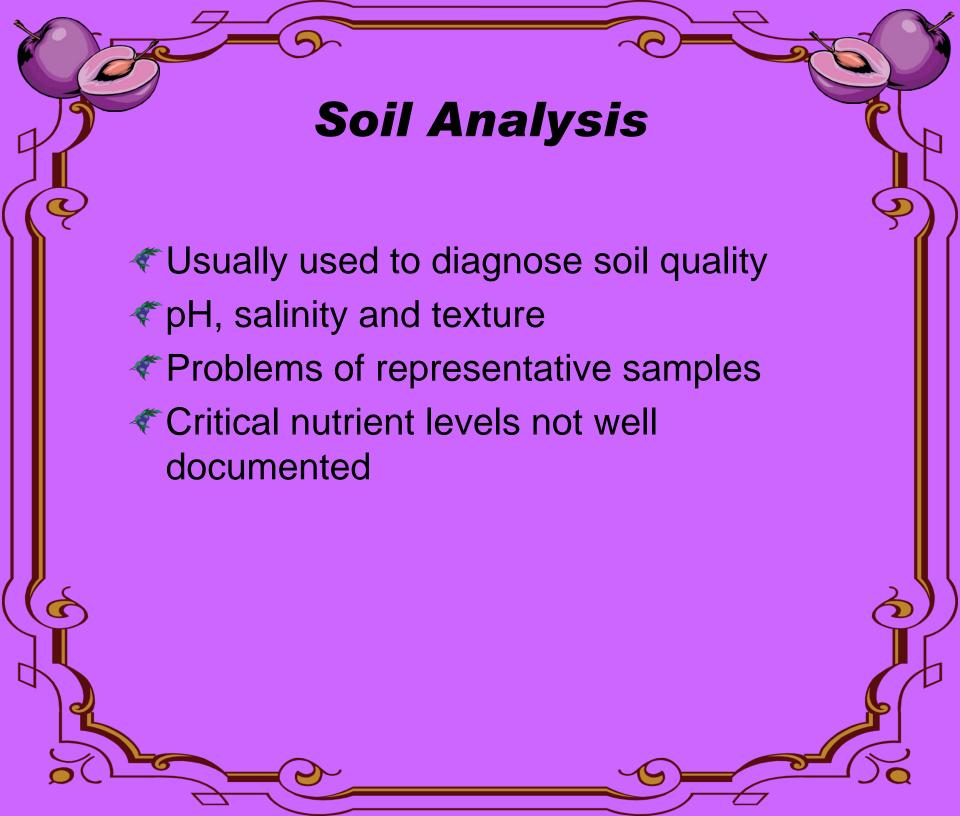


Leach to groundwater

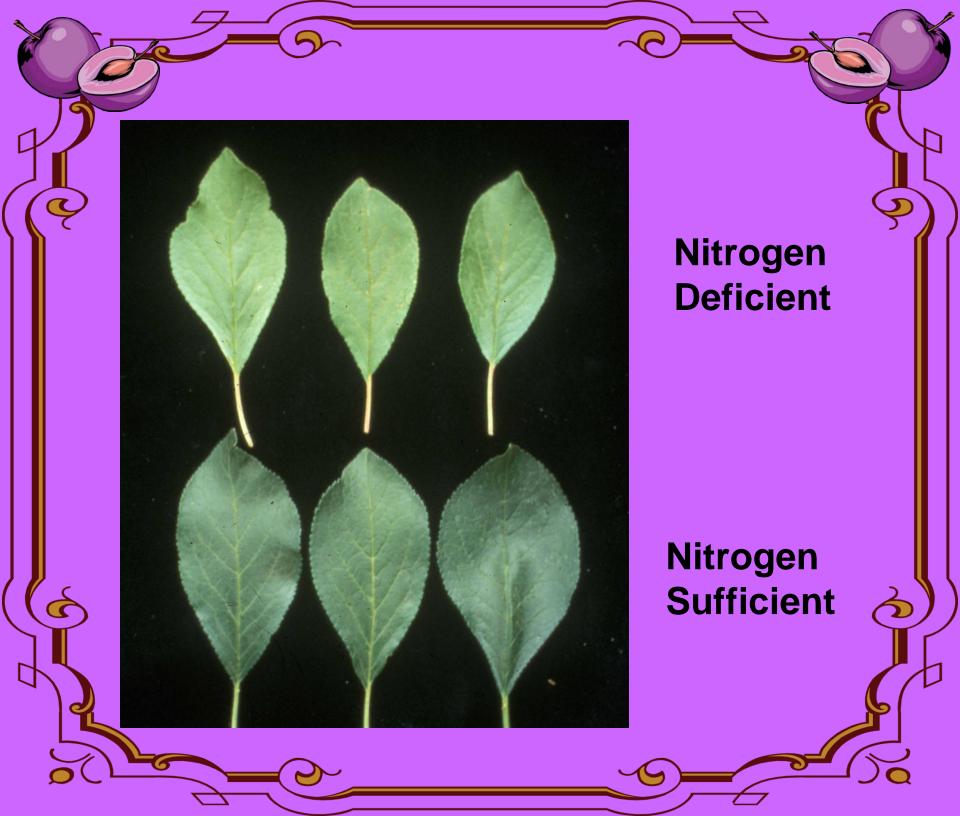




















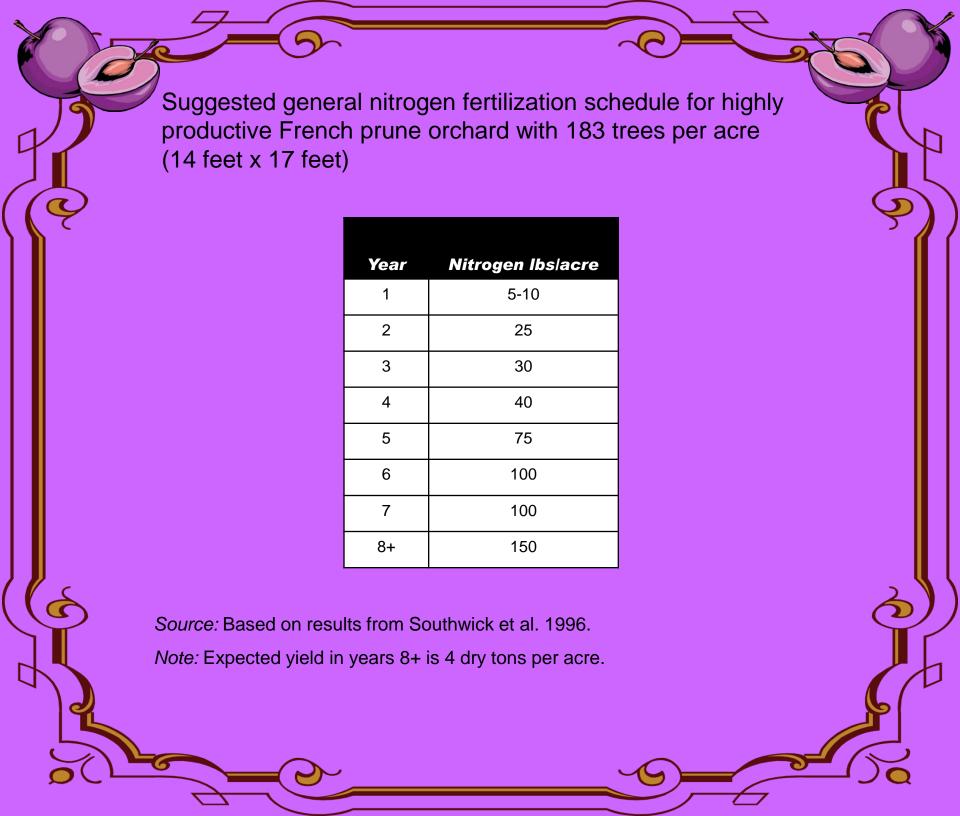
1999 Water Analysis

County	NO ₃ -N ppm	Lbs. N/Acre ft
Butte	10.5	28.6
Butte	5.71	15.5
Butte	<0.05	0.0
Glenn	5.18	14.1
Merced	<0.05	0.0
Sutter	1.3	3.5
Sutter	<0.05	0.0
Sutter	5.9	16.0
Sutter	8.17	22.2
Sutter	11.1	30.2
Tehama	6.05	16.5
Tehama	0.09	0.2
Tehama	2.11	5.7
Tulare	2.36	6.4
Tulare	10.1	27.5
Yolo	6.28	17.1
Yuba	1.71	4.7
Yuba	1.76	4.8

 NO_3 -N (ppm) x 2.72 = pounds N/Ac-foot of water







Nitrate uptake capacity of non-bearing 'French' prune/Mariana 2624 trees following 10 day exposures to tagged N at different phenological periods.

Tagged N application periods	Growth stage during application	Nitrate Uptake capacity (%)
Jan 16-26	Dormant	4 a*
March 5-15	Bud swell	4 a
April 2-12	Rapid shoot growth	30 c
May 14-24	Shoot growth cessation	39 c
July 9-19	Shoot growth cessation	32 c
August 6-16	Shoot growth cessation	35 c
September 10-20	Shoot growth cessation	32 c
October 22-Nov.1	Mid-leaf fall	16 b
December 3-13	Dormant	3 a

Source: Data from Weinbaum, et al; 1978.

Note: *Nitrate uptake capacity is the amount of nitrate absorbed by the trees divided by the amount nitrate applied. *Mean separation within the columns by Duncan's multiple test range, 1% level.

