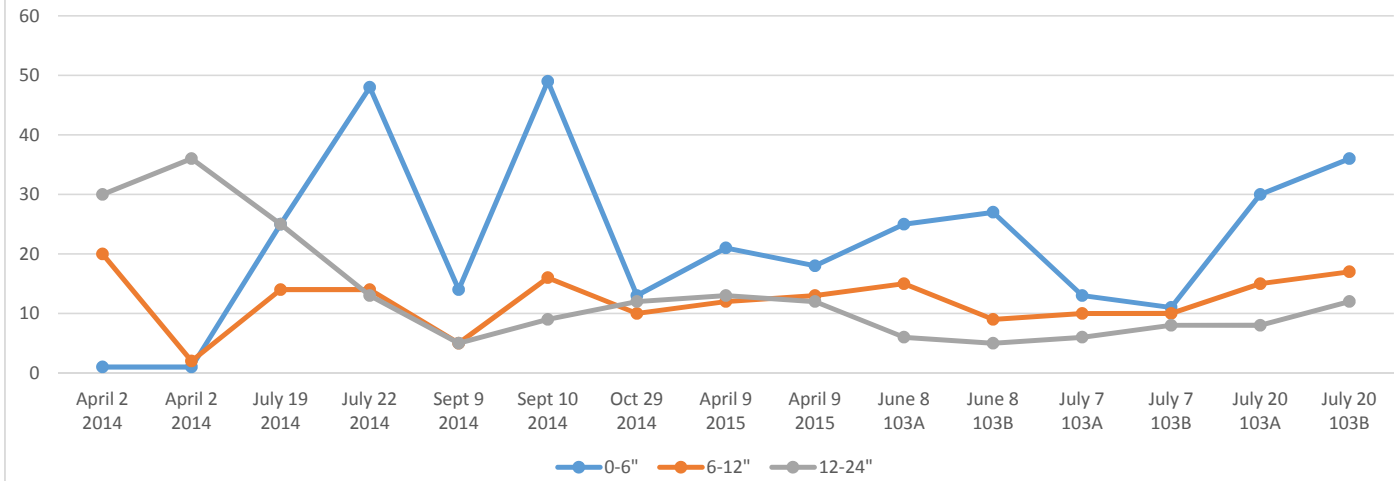


H.S. Jansen Field 103 soil Nitrate History July 20th 2015



April 2, 2014 - first soil samples	Date:	0-6"	6-12"	12-24"
July 19, 2014 - pre manure application after 1st cut alfalfa before manure	April 2 2014	1	20	30
July 22, 2014 - post manure application after 1st cut.	April 2 2014	1	2	36
Sept 9, 2014 - pre manure application after 2nd cut alfalfa	July 19 2014	25	14	25
Sept 10, 2014 - post manure application after 2nd cut.	July 22 2014	48	14	13
Oct 29, 2014 - post 3rd cut soil test for going into winter.	Sept 9 2014	14	5	5
April 9 2015 - Spring soil test pre crop growth starting	Sept 10 2014	49	16	9
June 8 2015 - pre manure after 1st cut soil nitrate test	Oct 29 2014	13	10	12
July 7 2015 - pre manure after 2nd cut soil nitrate test	April 9 2015	21	12	13
July 20 2015 - post manure after 2ns cut and 0.8 inch irrigation on July 15th	April 9 2015	18	13	12
	June 8 103A	25	15	6
	June 8 103B	27	9	5
	July 7 103A	13	10	6
	July 7 103B	11	10	8
	July 20 103A	30	15	8
	July 20 103B	36	17	12

Included are the post manure application soil nitrate test done July 20. A 0.8 inch irrigation event happened on July 15 and this gives the opportunity to see the nitrate movement after an irrigation. Soil nitrate levels increased a total average of 66 pounds per acre in the top 2 foot soil profile with the majority staying in the top 6" and some moving down in the profile. The 6000 gallon application rate had a total 95.4 pounds of total nitrogen including 67 pounds of usable nitrate nitrogen (as calculated in Greg Tegart's preapplication review). The soil test results correspond very nicely with the desired application rates and I expect the soil nitrate levels to drop nicely by the time 3rd cut is ready to harvest.