

Pinot Noir Premium Vineyard

Nature's Source Organic Plant Food 3-1-1

MAIN OBJECTIVE

To evaluate the effect of 3-1-1 on Yield on both varieties

- Pinot Noir
- Chardonnay



TREATMENTS

TREATMENT	RATE/ACRE GPA	TIME OF APPLICATION	APPLICATION METHOD
3-1-1	10	Early Spring	Drip Irrigation System
CONTROL			

"CONTROL" was the Grower Standard Program



ADDITIONAL NOTES

Premium WineGrape Vineyard Pinot Noir



- All cultural practices were carried out by the grower in all varieties and clones
- The IPM program was the same for both treatments: 3-1-1 & Control
- C) The grower standard fertilization program was the same for all treatments in this trial
- Irrigation management and scheduling was done by the grower



SOIL & TISSUE ANALYSIS RESULTS





Precision Agri Lab

24730 Avenue 13

Madera, CA

93637

Phone: 559-661-6386 FAX: 559-661-6135

Crop

SOIL ANALYSIS REPORT

And Pre-Plant Recommendation For CHULA VINA

BRANCH NAME GREENFIELD 3/16/2013

TEST ID #

FIELDMAN JOHN COSSEBOOM

2656

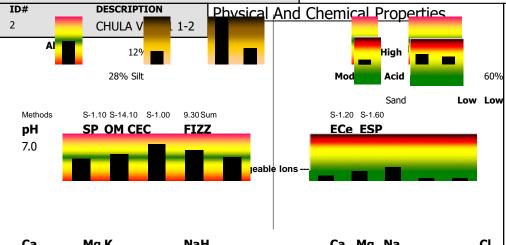
DATE SUBMITTED: 3/21/2013

LOG IN#

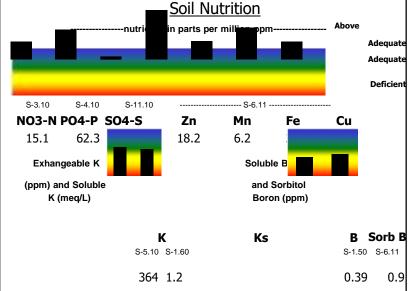
333646

DATE REPORTED:

CROP GRAPES 4/12/2013



Са	Mg K SO4	NaH	Ca Mg	Na	CI
Methods		Calc		S-1.60	S-1.70
%BS	70 20 0.6 1.2	8 2	0 3.8	2.1	3.0
	1671 289 364 S-5.10	68 			



Results approved by:_ Date:_

GRAPES

BRANCH NAME: SALINAS 1155 TEST ID #:

CROP:



24730 Avenue 13 Madera, CA 93637 Phone: 559-661-6386 FAX: 559-661-6135

LOG IN #: 365921 **DATE SAMPLED:** 5/13/2016 **DATE SUBMITTED:** 5/16/2016 **DATE REPORTED:** 5/18/2016

FIELDMAN:

HENRY CARRASCO

GROWER/CLIENT:

REPORT OF TISSUE ANALYSIS CHULA VINA

	CITOLA														
						/Hydrogen P						Acid/Hydrog			P-3.10 on(ppm)
				nutrients r	eportec	l in percent	(%)				Iluulei	its reporter	u III parts	per mini	on(ppm)
SAMPLE #:	DESCRIPTION:	%N:	%P:	%K:	%S:	%Ca:	%Mg:	%Na:	%CI:	B:					Zn:
1 CHULA		3.02	0.27	3.26	0.11	0.97	0.40	0.01	0.33	39	41	45	48	6	Mr 3 69
2 777		3.12	0.41	3.20	0.11	0.95	0.34	0.01	0.13	37	43	42	40	8	Fe _{i02}
3 POM		3.33	0.39	3.58	0.10	0.93	0.31	0.01	0.24	39	31	37	43	6	Cu: NO3-N
4 115		3.19	0.49	3.08	0.10	1.14	0.30	0.02	0.23	39	48	46	42	8	PO44:

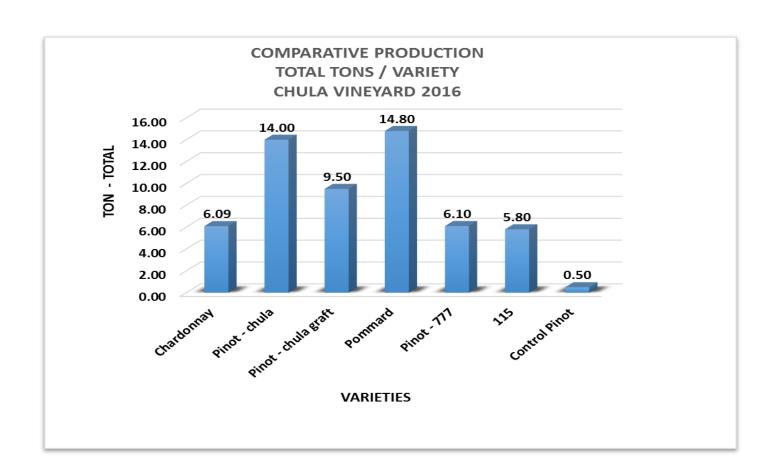
YIELD DATA

Chula Vineyard 3-1-1 Trial Results 2016

VARIETY	ACRES	TONS	TONS/ACRE
Chardonnay	1.60	6.09	3.8
Pinot-Chula	2.00	14.00	7.0
Pino-Chula Graft	1.30	9.5	7.3
Pommard	3.20	14.8	4.6
Pinot-777	1.70	6.10	3.6
115	1.78	5.80	3.2
Control	0.19	0.50	2.6
TOTALS	11.77	56.34	4.26

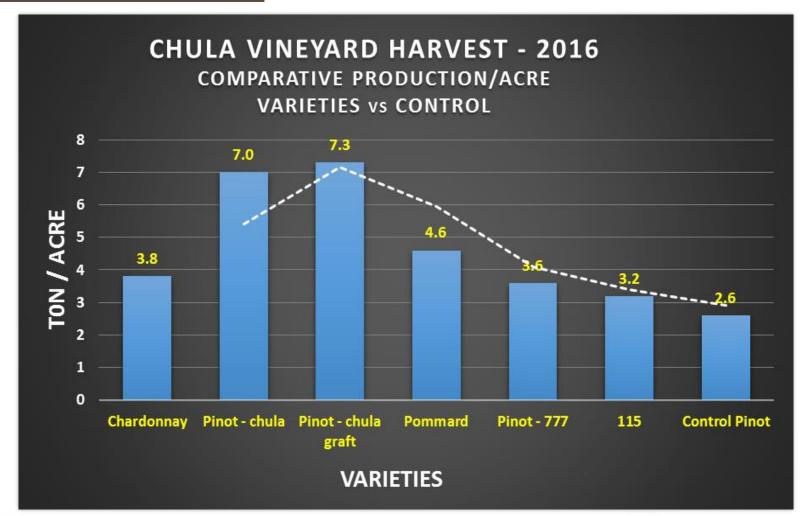


YIELD DATA





YIELD DATA







Premium WineGrape Vineyard Pinot Noir

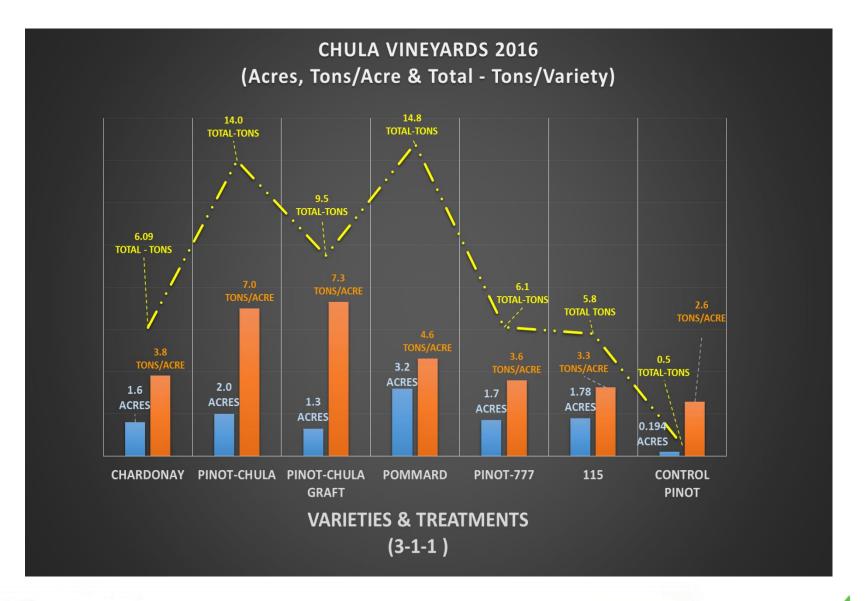
Nature's Source Organic Plant Food 3-1-1 applied at 10 gallons per acre through a drip irrigation system in early Spring increased yield tonnage up to 58%



TRIAL RESULTS: 2014 vs. 2016

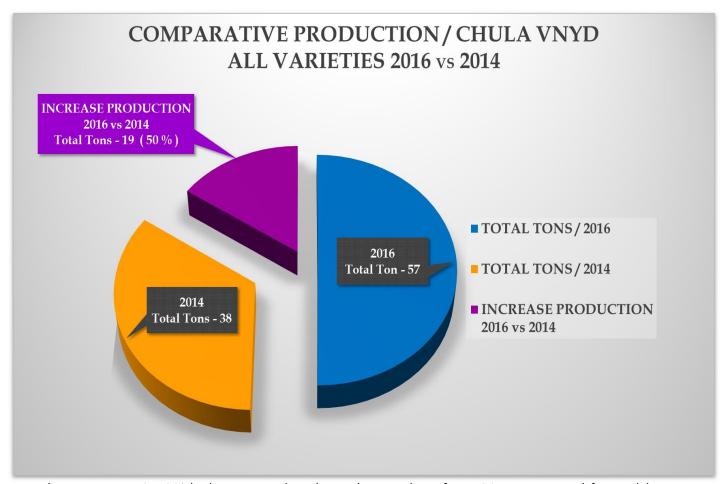
VARIETY	ACRES	TONS 2016	TONS 2014	TONS/ACRE 2016	TONS/ACRE 2014
Chardonnay	1.60	6.09	4.0	3.8	2.5
Pinot-Chula	2.00	14.00	6.8	7.0	3.4
Pino-Chula Graft	1.30	9.5	4.4	7.3	3.4
Pommard	3.20	14.8	10.9	4.6	4.6
Pinot-777	1.70	6.10	5.8	3.6	3.6
115	1.78	5.80	6.0	3.2	3.2
Control	0.19	0.50		2.6	2.6
TOTALS	11.77	56.79	37.9	4.26 (avg)	3.14 (avg)







COMPARATIVE PRODUCTION



2015 production was 50-70% below normal in the industry; therefore, 2014 was used for Yield comparison



CONCLUSIONS



- Nature's Source Organic Plant Food 3-1-1 (10 GPA rate) Increased Yield
- Plant nutrients were not impacted by 3-1-1 application
- C) Wine quality was not changed by 3-1-1 in the treated area vs. control



Nature's Source Organic Plant Food 3-1-1 RECOMMENDED

FERTILIZATION PROGRAM





PRODUCING PREMIUM VINEYARD

PRODUCT	RATE /ACRE GPA	TIME OF APPLICATION	METHOD APPLICATION
Nature's Source Organic Plant Food 3-1-1	10	POST-HARVEST	DRIP
Nature's Source Foliar BioNutrition 10-4-3	3	POST-HARVEST	GROUND RIG
Nature's Source Organic Plant Food 3-1-1	5	SPRING	DRIP
Nature's Source Foliar BioNutrition 10-4-3	3	SPRING	GROUND RIG
Nature's Source Foliar BioNutrition 10-4-3	3	SUMMER/JUNE	GROUND RIG
Nature's Source Foliar BioNutrition 10-4-3	3	SUMMER/AUGUST	GROUND RIG

Use at least 50 GPA of water/acre for ground rig applications



NEW VINEYARD ESTABLISHED

PRODUCT	RATE /ACRE GPA	TIME OF APPLICATION	METHOD APPLICATION
Nature's Source Organic Plant Food 3-1-1	3	FALL	DRIP
Nature's Source Foliar BioNutrition 10-4-3	3	FALL	GROUND RIG
Nature's Source Organic Plant Food 3-1-1	3	SPRING	DRIP
Nature's Source Foliar BioNutrition 10-4-3	3	SPRING	GROUND RIG
Nature's Source Foliar BioNutrition 10-4-3	3	SUMMER/JUNE	GROUND RIG
Nature's Source Foliar BioNutrition 10-4-3	3	SUMMER/AUGUST	GROUND RIG

Use at least 50 GPA of water/acre for ground rig applications



NATURE'S SOURCE TEAM



Premium WineGrape Vineyard Central Coast - California

