



Fertility Report - DEMO

Field: Block 1	Acres: 51	Sample Date: 9/27/2008	H08-258
Variety: Bings	Irrigation: Sprinkler	Sampler: Hanson	1624
White Bluff Ranch	H125	Previous Crop: 2007 Bings	
12229 River Road		Current Crop: 2008 Bings, 8 yrs	
Benton City, WA 98029		Spacing: 10x5 = 871.2 t/ac	

FERTILITY RECOMMENDATIONS

(lbs/acre)

<u>Dormant:</u>		<u>N</u>	<u>P205</u>	<u>K2O</u>	<u>Mg</u>	<u>S</u>	<u>B</u>	<u>Zn</u>	<u>Mn</u>	<u>Fe</u>	<u>Cu</u>
Broadcast Whole Blk		35	0	40	22	42	1.25	0	0	0	0

<u>Selective Extra:</u>		<u>N</u>	<u>P205</u>	<u>K2O</u>	<u>Mg</u>	<u>S</u>	<u>B</u>	<u>Zn</u>	<u>Mn</u>	<u>Fe</u>	<u>Cu</u>
^{1/2/} Weaker zones Site A:		75									

Carefully flag zones to monitor closely next summer.

<u>At Planting:</u>		<u>N</u>	<u>P205</u>	<u>K2O</u>	<u>Mg</u>	<u>S</u>	<u>B</u>	<u>Zn</u>	<u>Mn</u>	<u>Fe</u>	<u>Cu</u>
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<u>During the Season:</u>		<u>N</u>	<u>P205</u>	<u>K2O</u>	<u>Mg</u>	<u>S</u>	<u>B</u>	<u>Zn</u>	<u>Mn</u>	<u>Fe</u>	<u>Cu</u>
Spr: Post-Bloom		20-30	Via Ca-nitrate product or Am-nitrate plus lime 70-0-04 <u>Ca</u> . Can be adjusted according to May leaf analysis.								
Nutrient Sprays:		Continue similar to 2007 crop years									

<u>Total for Crop:</u>		<u>N</u>	<u>P205</u>	<u>K2O</u>	<u>Mg</u>	<u>S</u>	<u>B</u>	<u>Zn</u>	<u>Mn</u>	<u>Fe</u>	<u>Cu</u>
		See above									

General Management Comment

^{1/} If you wanted to go a little more high-tech on this, we could actually come in and mark these locations with a GPS receiver while some leaves are still hanging on the differences and the summer vigor is still quite distinct.

^{2/} To weak areas 1) Broadcast compost at about 20#/tree (equal to ~2 tons/ac) 2) Broadcast Cal-Prill equivalent to 500#/ac or 3) instead of 1 or 2 spread sugar lime at about 2 tons/ac rate setting.



Fertility Report - DEMO

WHITE BLUFF RANCH, INC.

H125

H08-258

Field: Block 1

Acres: 51

Sample Date: 9/26/2008

Crop: Bings

Irrigation: Sprinkler

Previous Crop: 2007 Bings

Current Crop: 2008 Bings 10x5

Soil series: Warden Very Fine Sandy Loam

Leach Hazard: Low

No. of Sites: 25

Topography: Flat

Avg Sampling Depth: 4.0

Restrictive layer? N *Where?*

Residue Incorp? N *Type?*

Comments: All samples taken 0-12" with a variability site A taken in the NE weak area.

Sample Area	Depth	Mobile Nutrients (lbs/ac)				Exch. / Soluble Bases (meq/100g)					Other Data	
		NO ₃	NH ₄	SO ₄	B	Ca	Mg	K	Na	T.B.	CEC	VolWt
Field Composite	1'	18	19	19	1.0	10.30	2.50	0.58	0.30	13.68	1.25	97%
Field Composite	2'	3									1.25	71%
Field Composite	3'	4									1.25	99%
Field Composite	4'	9									1.25	108%
	Totals:	33	19	19	1.0							
Variability A	1'	17	17	20	1.0	6.50	1.80	0.67	0.20	9.17	1.25	79%

Comments: Residual N is quite low across the whole orchard. The nitrogen between the good and weak area are close but the OM is 2.0% contrasting with 1.2% in weaker area which explains why natural soil release is much less in weaker areas.

Sample Area	Depth	Immobile Nutrients (ppm)							Chemical Data			
		P	K	Zn	Mn	Fe	Cu	O.M.	pH	EC mmhos/cm	Eff/Calc.	
Field Composite	1'	28	227	32.0	3	22	0.7	2.0%	6.7	0.20	No	
Field Composite	2'								8.2		Yes	
Variability A	1'	40	262	40.0	5	48	0.7	2.0%	6.1	0.13	No	

Comments: P & K are somewhat higher in the weaker area, this may be due to less wood growth and less fruit and therefore less nutrient removal from the soil.

Comments: pH and Ca plus Mg content in the weaker area is much less and the soil is moderately acidic in the surface foot. To increase calcium content the use of lime or by use of compost, which is high in calcium.

AGRIMANAGEMENT® INC.
AGRICULTURAL CONSULTANTS
408 N. 1st ST. PHONE YAKIMA
P.O. BOX 583 (509) 453-4851
Yakima, WA 98907-0583 FAX: 509-452-6760
<http://www.agrimgt.com>



Fertility Report

WHITE BLUFF RANCH, INC

H125

H08-258

Field: Block 1

Acres: 10

Crop: BING

Irrigation: Sprinkler

Map:



Comments:

12/14/2007