



EAST SIDE (LESS SODIC)

THE EFFECTS OF HYDRA HUME DG ON TOMATO YIELDS ON **SODIC SOILS**

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Favier Ranches (East)

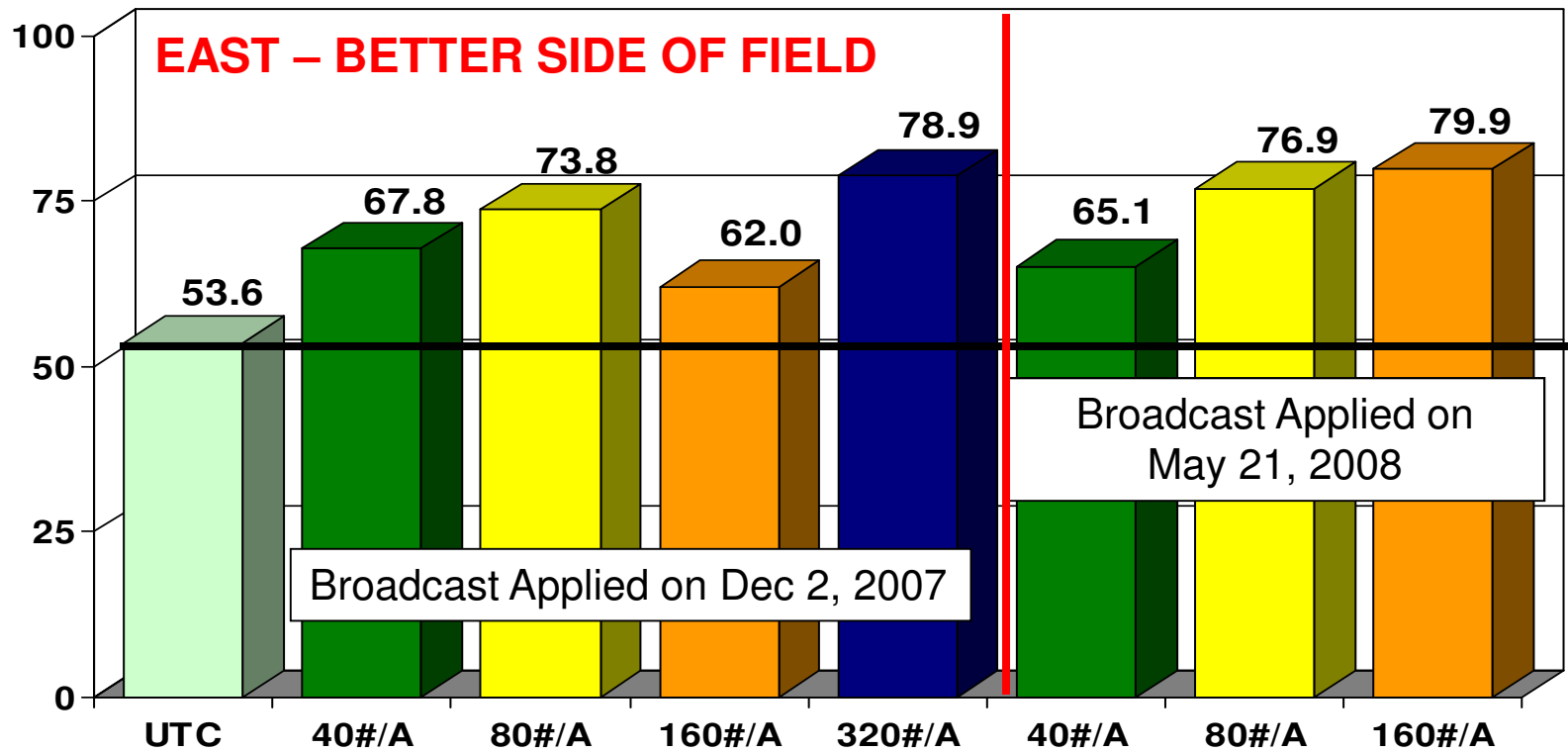
California

2008



SODIC SOILS & TOMATO YIELDS (tons/A)

EAST SIDE (LESS SODIC) California – 2008



Plot Information:

Cooperator: Bill Weir, Ph.D. & Favier Farms, Merced, CA
 Variety: (Heinz) H-2401 (Processed Tomatoes)
 Planted: May 21, 2008 Harvested: October 1, 2008
 Replications: 2 (Favier East) Plot Design: RCBD
 Treatments: 2 beds - 60 inch beds x 50 ft in length.

Fertility:

Side dress: 50 gal/A 12-0-12 + .02 Boron, Water run: 10 gal/A CAN 17 & 10 gal/A soluble PO4, Foliar applications included 1.0 gal/A 12-0-12, & 0.5 gal/A 2-0-25

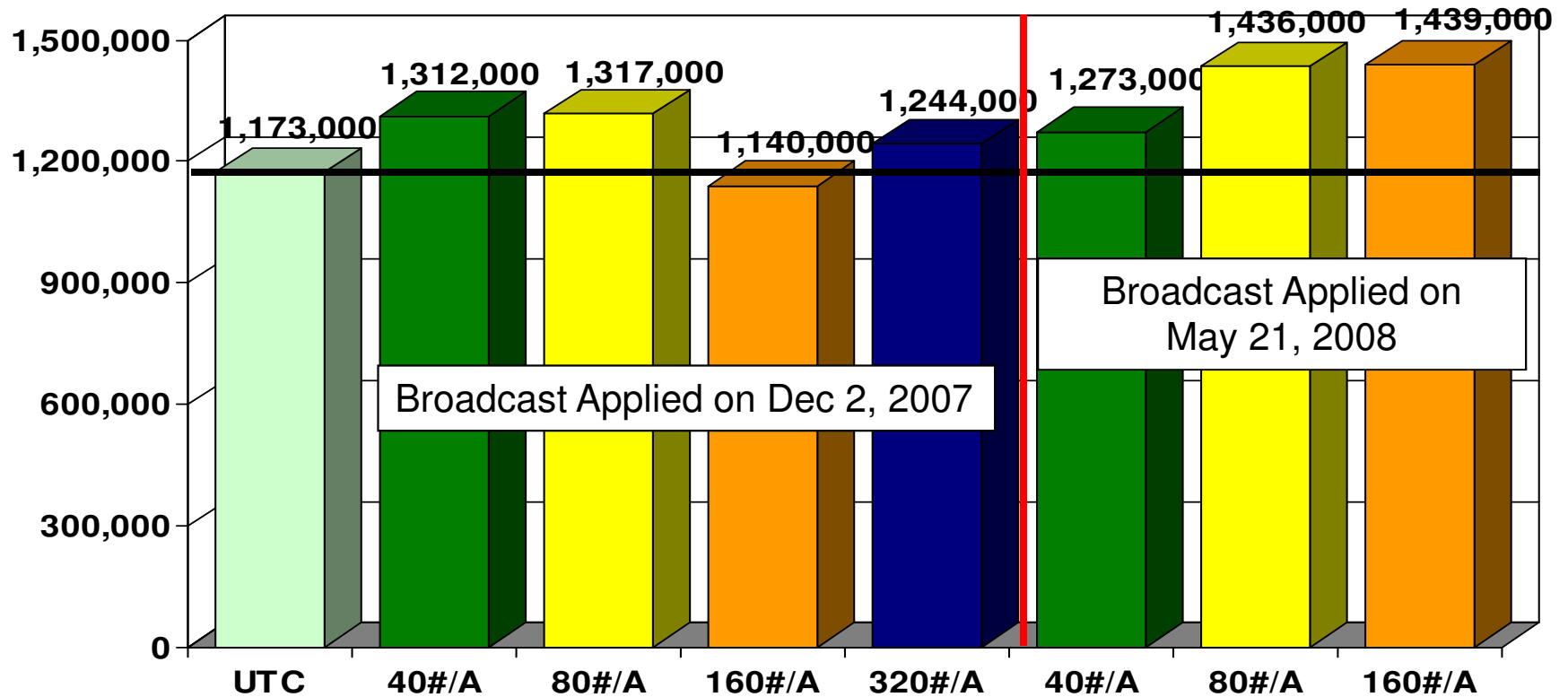
Application Information:

Treatments 2-5 were broadcast pre-plant on Dec 2, 2007; treatments 6-8 were broadcast applied at transplanting on May 21, 2008.



SODIC SOILS & TOMATO YIELDS (fruit/A)

EAST SIDE (LESS SODIC) California – 2008



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Cooperator: Bill Weir, Ph.D. & Favier Farms, Merced, CA
 Variety: (Heinz) H-2401 (Processed Tomatoes)
 Planted: May 21, 2008 Harvested: October 1, 2008
 Replications: 2 (Favier East) Plot Design: RCBD
 Treatments: 2 beds - 60 inch beds x 50 ft in length.

Fertility:

Side dress: 50 gal/A 12-0-12 + .02 Boron, Water run: 10 gal/A CAN 17 & 10 gal/A soluble PO₄, Foliar applications included 1.0 gal/A 12-0-12, & 0.5 gal/A 2-0-25

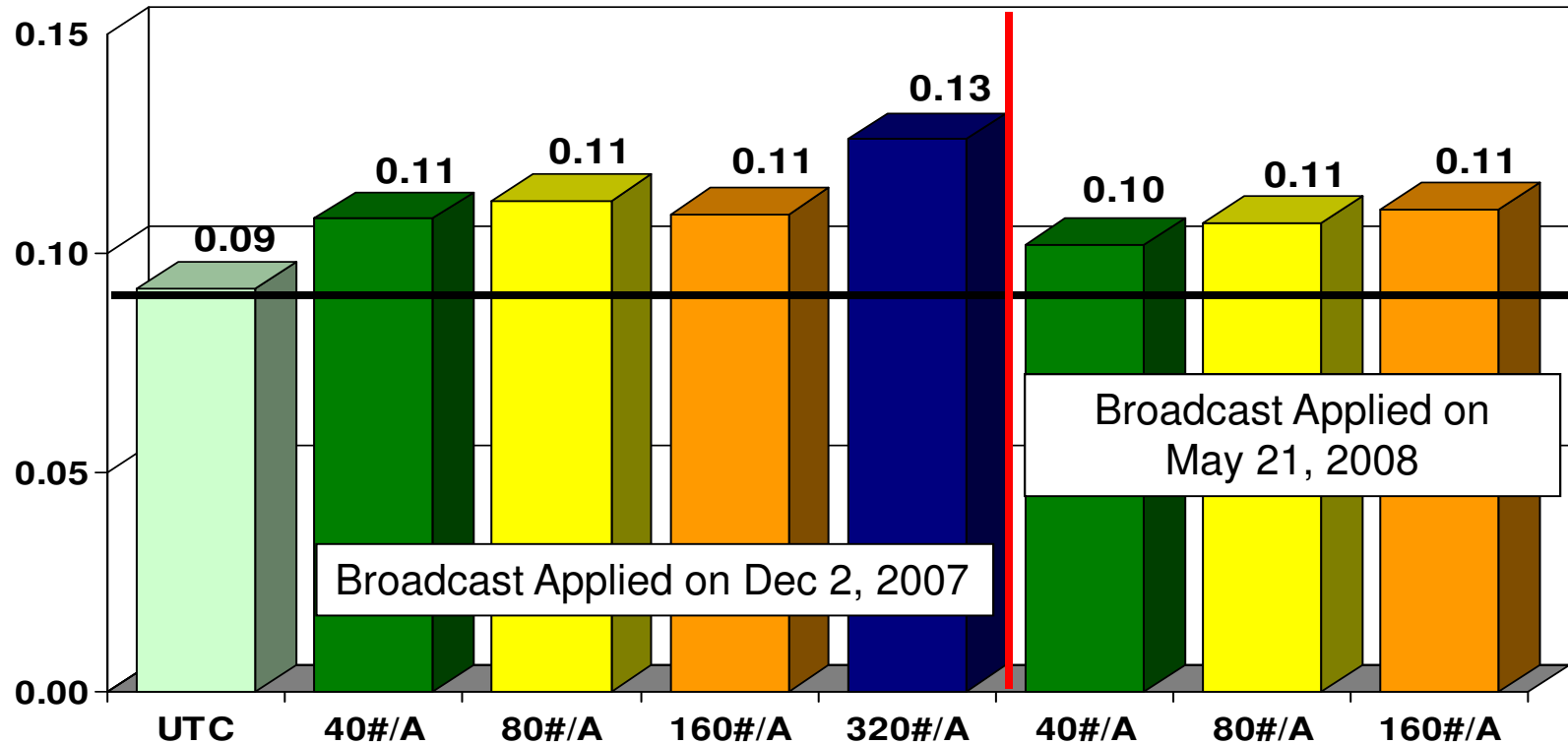
Application Information:

Treatments 2-5 were broadcast pre-plant on Dec 2, 2007; treatments 6-8 were broadcast applied at transplanting on May 21, 2008.



SODIC SOILS & TOMATO FRUIT WT (lbs/fruit)

EAST SIDE (LESS SODIC) California – 2008



Plot Information:

Cooperator: Bill Weir, Ph.D. & Favier Farms, Merced, CA
 Variety: (Heinz) H-2401 (Processed Tomatoes)
 Planted: May 21, 2008 Harvested: October 1, 2008
 Replications: 2 (Favier East) Plot Design: RCBD
 Treatments: 2 beds - 60 inch beds x 50 ft in length.

Fertility:

Side dress: 50 gal/A 12-0-12 + .02 Boron, Water run: 10 gal/A CAN 17 & 10 gal/A soluble PO4, Foliar applications included 1.0 gal/A 12-0-12, & 0.5 gal/A 2-0-25

Application Information:

Treatments 2-5 were broadcast pre-plant on Dec 2, 2007; treatments 6-8 were broadcast applied at transplanting on May 21, 2008.

TREATMENTS

TRT	PRODUCT	RATE (#/A)	TIMING
1	UTC	--	--
2	HH DG Coated	40	Dec 2, 2007
3	HH DG Coated	80	Dec 2, 2007
4	HH DG Coated	160	Dec 2, 2007
5	HH DG Coated	320	Dec 2, 2007
6	HH DG Coated	40	May 21, 2008
7	HH DG Coated	80	May 21, 2008
8	HH DG Coated	160	May 21, 2008

MATERIALS & METHODS

- Treatments 2-5 were broadcast applied prior to planting on December 7, 2007.
- Treatments 6-8 were broadcast applied on May 21, 2008.
- Fertility: Side dress: 50 gal/A 12-0-12 + .02 Boron, Water run: 10 gal/A CAN 17 & 10 gal/A soluble PO₄, Foliar: 1.0 gal/A 12-0-12, & 0.5 gal/A 2-0-25
- Plot Description: Two 60" beds X 50' long
- Design: RCBD – **2 REPS**

SOIL ANALYSES:

	PRE-APP	TRANSPLANT	HARVEST
NUTRIENT:			
OM	2.3	3	2.7
PO ₄ (ppm)	31	29	28
K (ppm)	95	124	194
Mg (ppm)	836	1096	1071
Ca (ppm)	3155	3390	2998
Na (ppm)	97	130	331
pH	6.6	6.9	6.9
CEC	24.8	27.2	26.1
NO ₃	---	50	103
SO ₄ (ppm)	17	26	90
EC (mmohs/cm)	----	0.9	1.9

Soil analysis was conducted on Dec. 2, 2007 (prior to treatments being applied), on May 21, 2008 (at transplanting), and on Oct 1, 2008 (harvest).

TOMATO YIELDS (# / A)

TRT	PRODUCT	RATE (# / A)	YIELD (tons/A)
1	UTC	--	53.6
2	HH DG Coated	40	67.8
3	HH DG Coated	80	73.8
4	HH DG Coated	160	62.0
5	HH DG Coated	320	78.9
6	HH DG Coated	40	65.1
7	HH DG Coated	80	76.9
8	HH DG Coated	160	79.9

Treatments 2-5 were applied Dec 2, 2007; treatments 6-8 were applied at planting on May 21, 2008.

SUMMARY

- All treatments out yielded the untreated check.

- Treatment # 8 (160 #/a HH DG Coated at transplanting) yielded 79.9 tons/acre

- Treatment # 5 (320 #/a HH DG Coated December) yielded 78.9 tons/acre

