



Onion Variety Trial Report 2009

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Malheur Co. OR and Idaho
Onion Growers. Ontario,
OR, 2010

Acknowledgements:

IEOOC

Onion Seed Companies

Western SARE

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In 2009, 46 varieties were tested:

Bulb color	Early maturity	Full season
Yellow	3	33
Red		5
White		5
Total	3	43

Materials and Methods

Fall prior to planting

Soil sampled, fertilized

Plowed, ground-hogged,
harrowed

Telone C-17, 20 gal/acre

Bedded on 44-inch centers

Materials and Methods

Spring

**Planted mid March four
double rows**

6 replicates

Thinned to 95,000 plants/ac

Weed and insect control

Materials and Methods

Spring and summer

**Furrow irrigated at 25 cb using
Watermarks and AM400**

**Tissue testing and corrective
fertilization**

Last irrigation August 28

Materials and Methods

Summer

Onions were evaluated for maturity, bolting, subjectively for IYSV and mildew, and using ELISA for IYSV.



IYSV Ratings

A single subjective rating was given for 20 consecutive plants in each plot on a scale of 0 to 5 with increasing severity of IYSV symptoms.

0 = no symptoms,

1 = 1% to 25% of foliage diseased,

2 = 26% to 50% of foliage diseased,

3 = 51% to 75% of foliage diseased,

4 = 76% to 99% of foliage diseased, and

5 = 100% of foliage

Materials and Methods

Harvest and grading

Lifted late Aug., harvest early Sept.

Evaluated for single centers, bulbs from plot centers harvested, stored to mid-January for neck rot, black mold, No.2's, yield by grade.

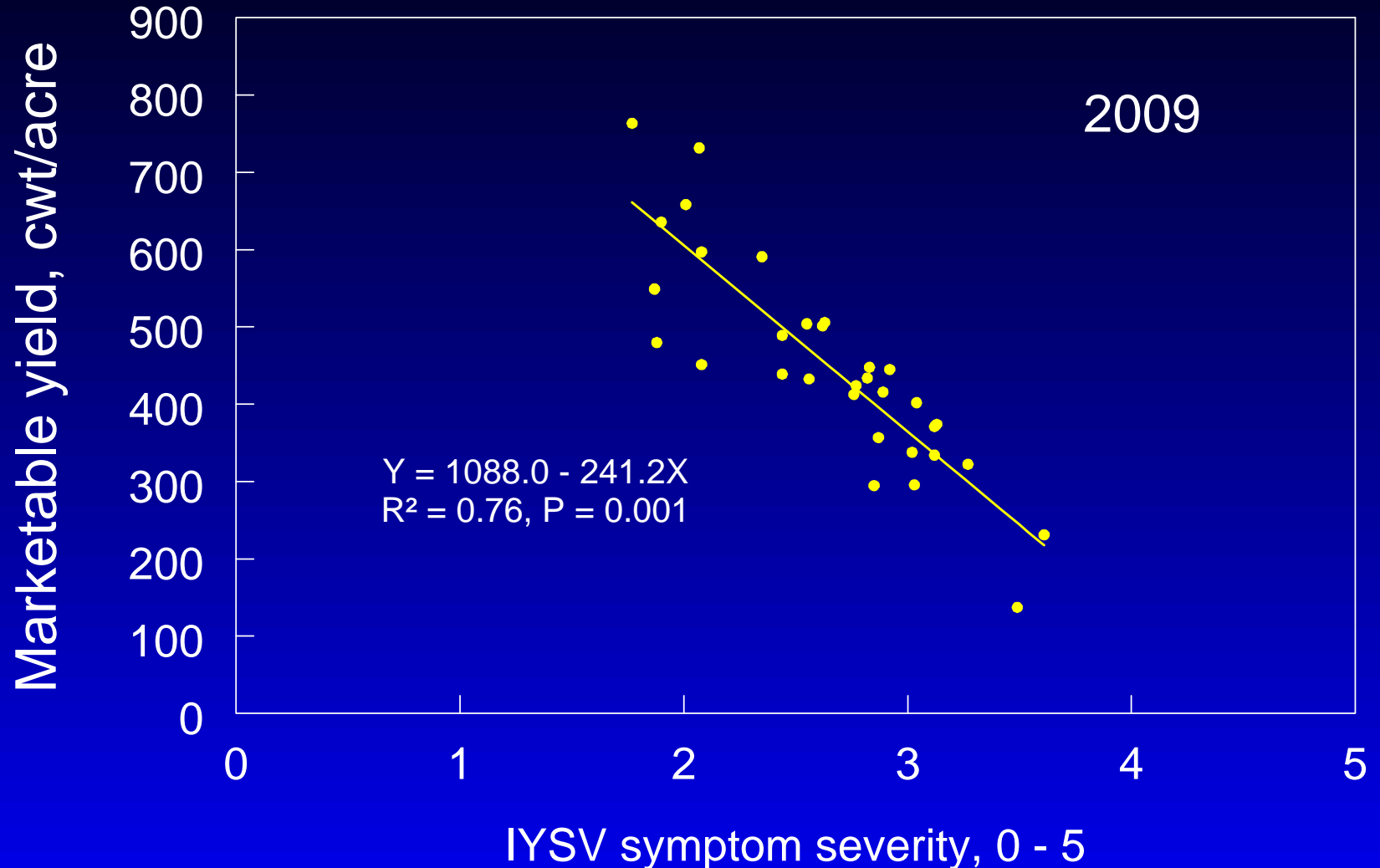
ANOVA, LSD(0.05), and regression.



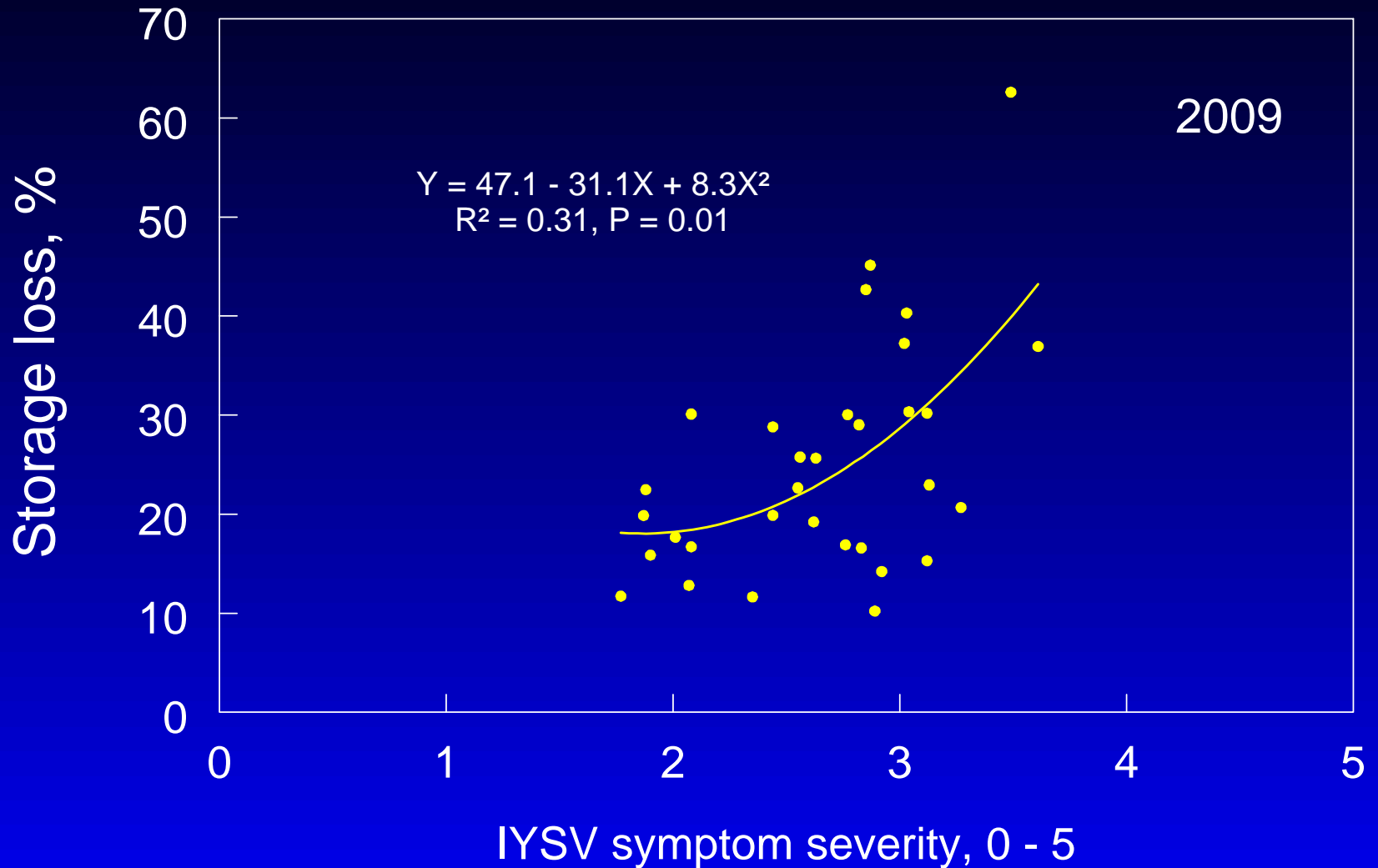


**In 2010, the OSU Onion Variety Day
will be on August 31**

Onion Marketable Yield Out of Storage as Influenced the Severity of IYSV Symptoms, OSU 2009 Variety Trial

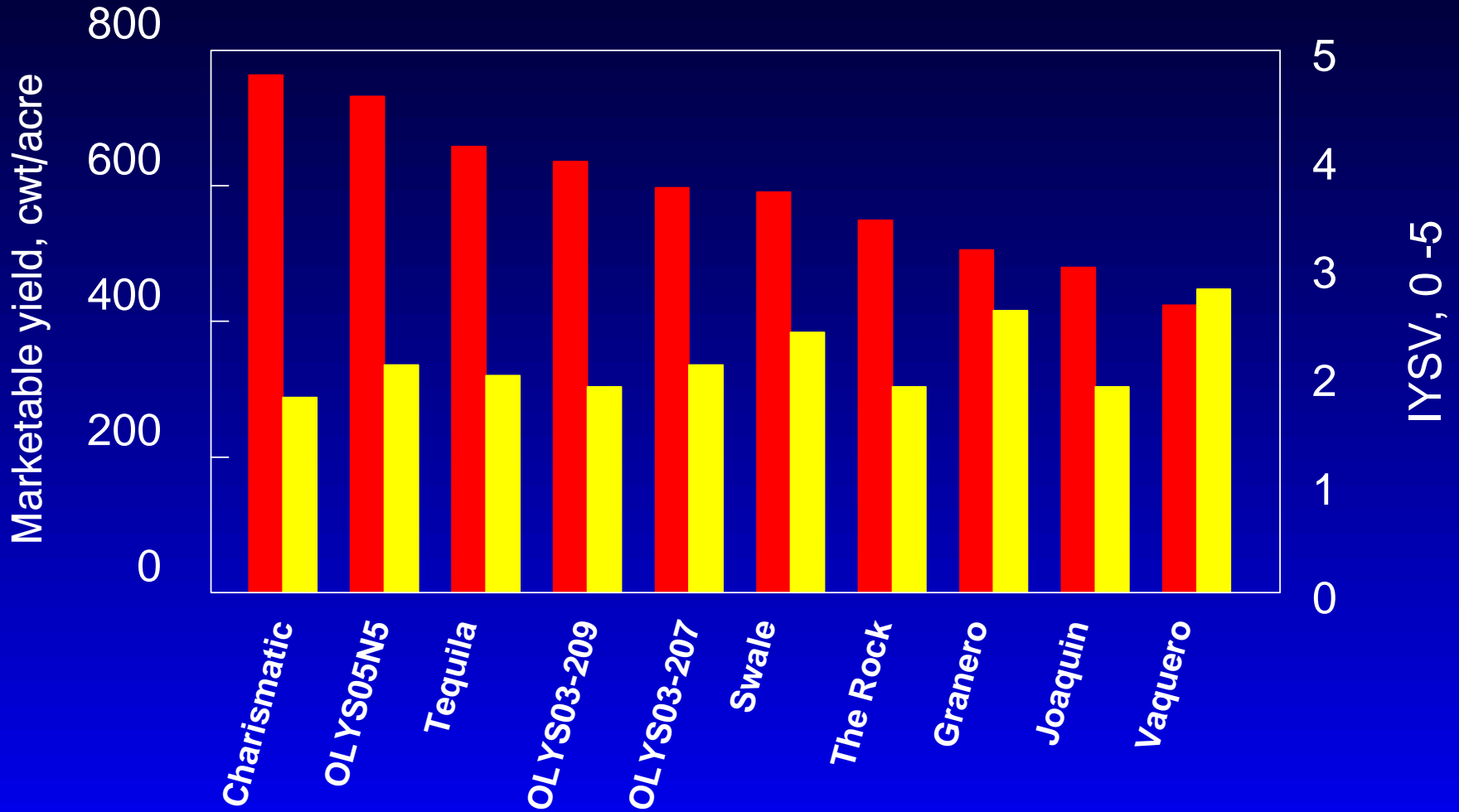


Onion Loss During Storage as a Function of IYSV Severity, OSU, Ontario, Onion Variety Trial, 2009



Marketable Yield Out of Storage for Varieties Compared to Their IYSV Symptoms, OSU, 2009

Marketable yield IYSV

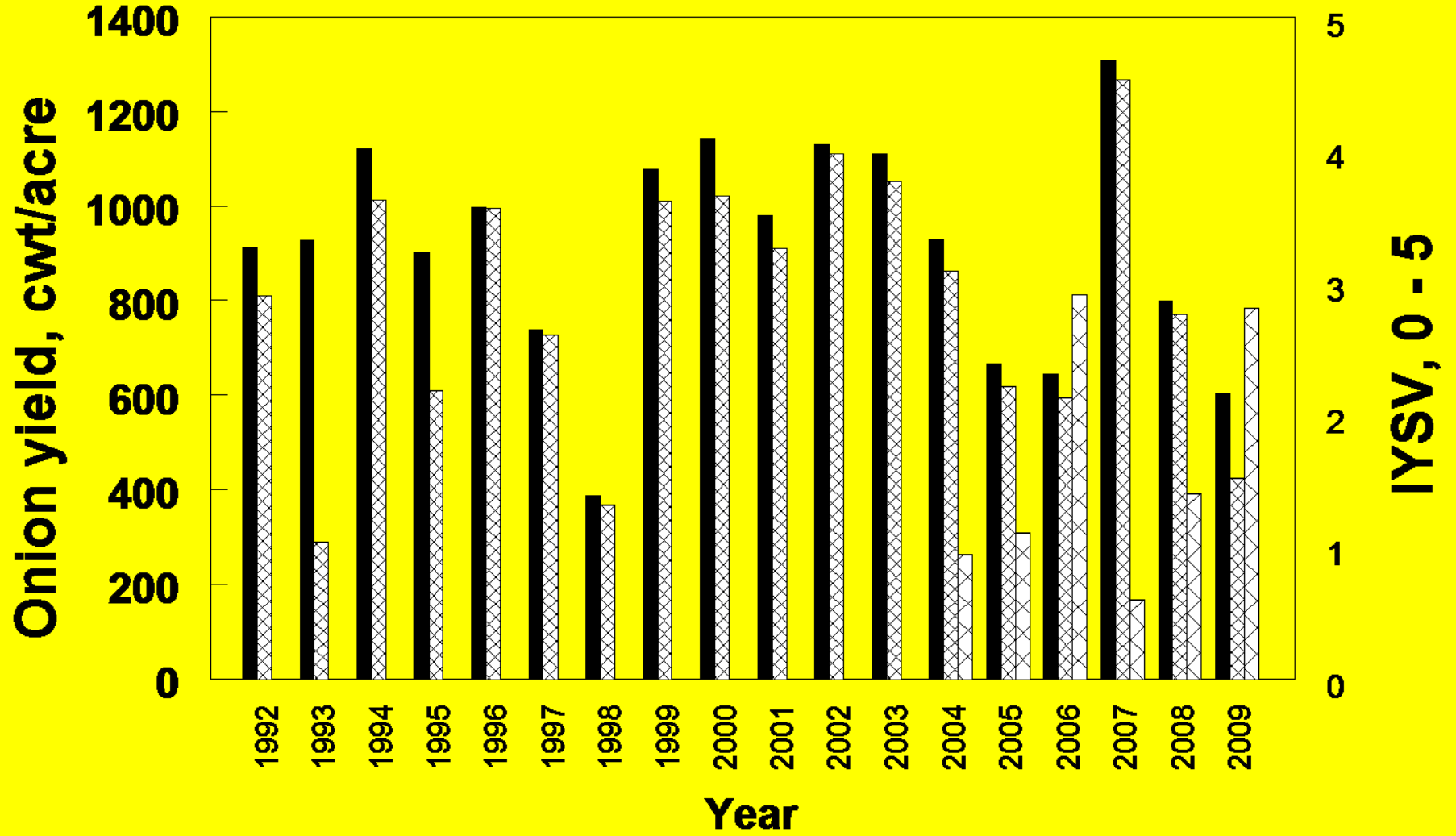




Vaquero

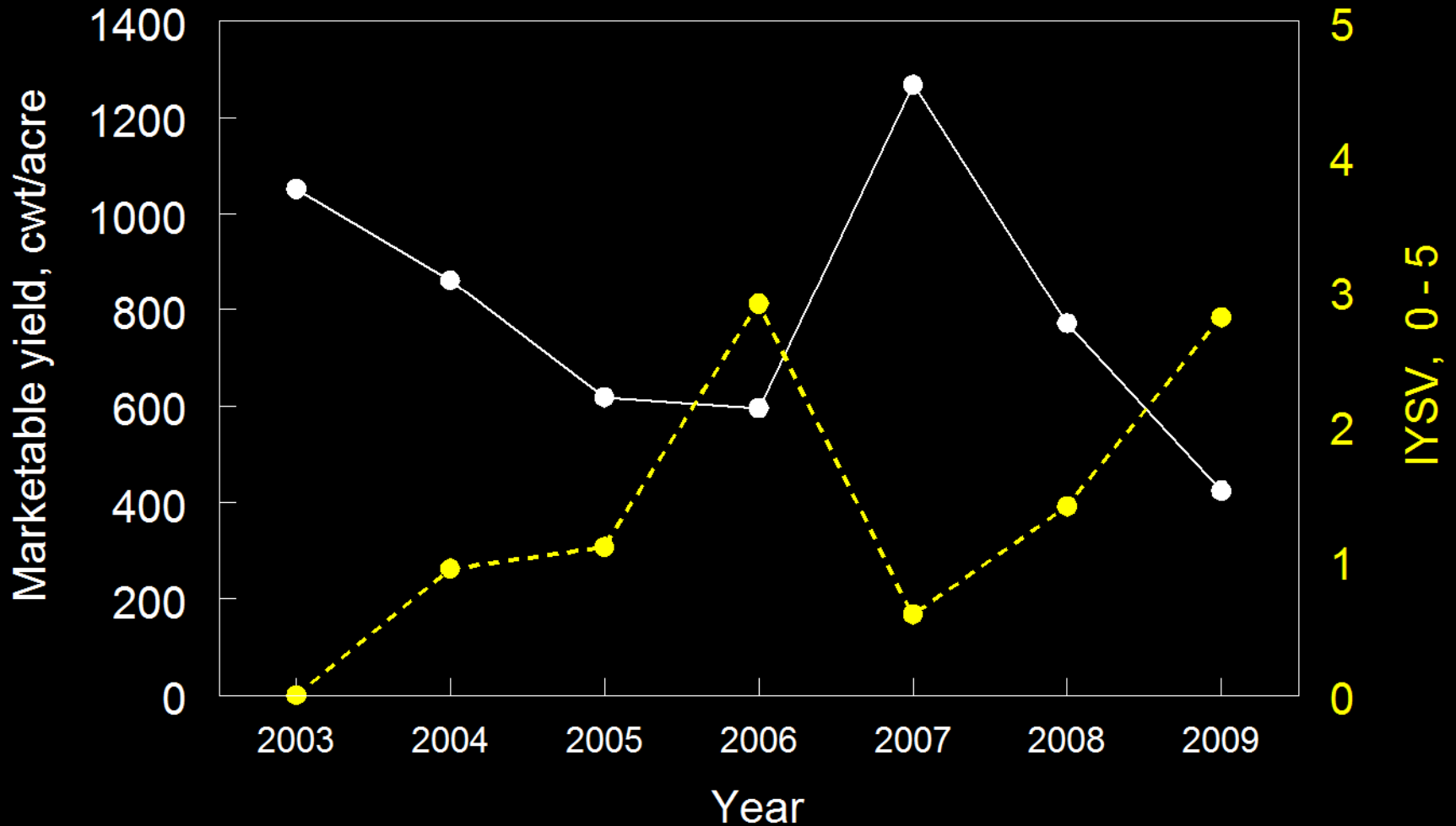
Total and Marketable Yields of Vaquero out of Storage over 18 Years and IYSV over 6 Years, OSU, Ontario

Total
 Marketable
 IYSV



Variation of Vaquero Marketable Yield out of Storage and IYSV Severity over Years, OSU, Onatrio

—●— Marketable yield - - ● - - IYSV



More info at www.CropInfo.net

