

Zinc Deficiency









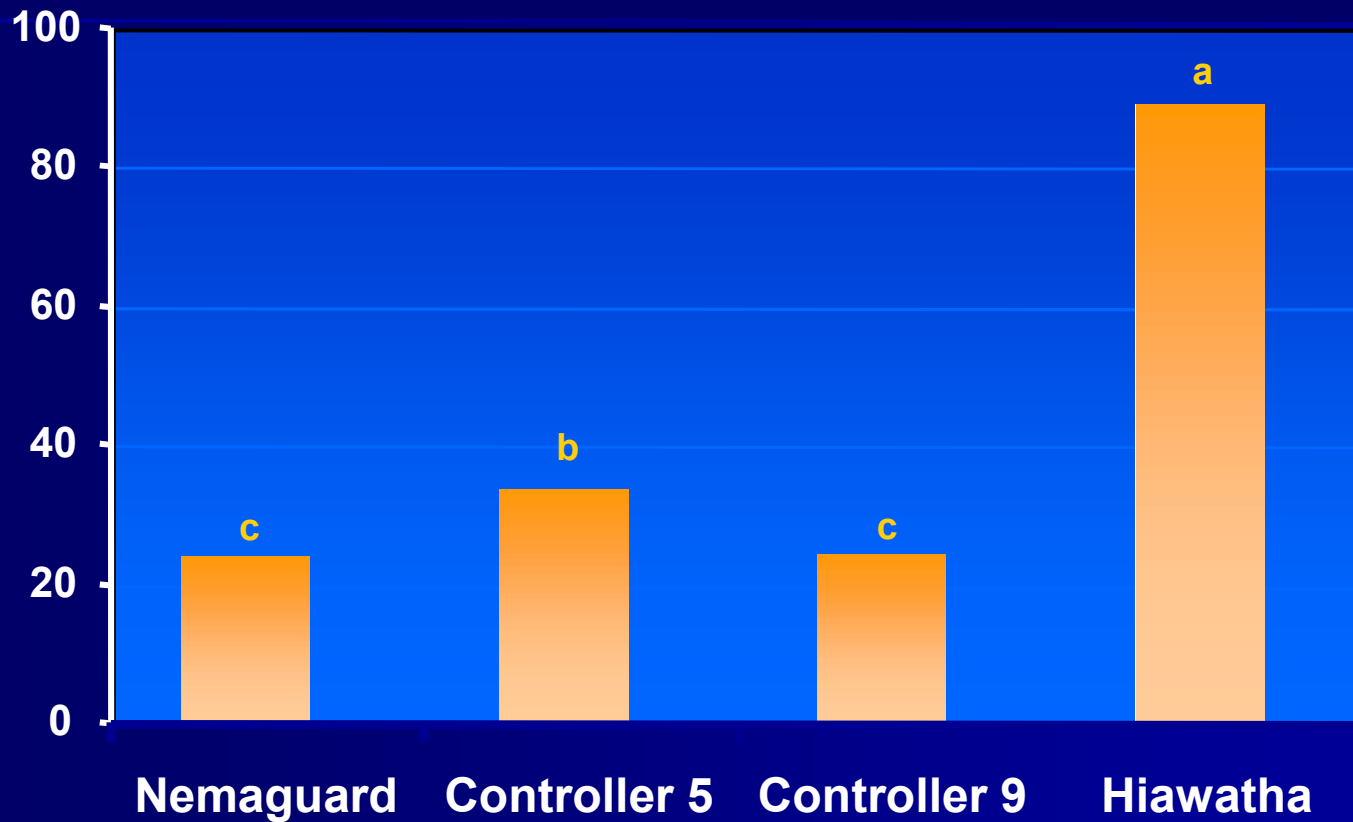
Zinc Deficiency

Stone fruit are particularly sensitive to zinc deficiency, as is often observed in California. There is **rootstock** and variety variability, especially in plum. The disorder has often been called "little leaf" because of the **small pointed leaves** produced. These leaves occur in **rosettes** on the tips of the shoots and young spurs because of shortened internodes. The affected leaves become **chlorotic with an interveinal mottling**. Leaf margins are often crinkled or **wavy**. These symptoms along with **delayed foliation** often occur early in spring. **Defoliation** eventually follows, beginning with basal leaves. Production is drastically affected, since **formation of fruit buds is inhibited** and fruit produced are small, **elongated, misshapen** and sometimes **cracked**.

Zinc deficiency can be confused with **Round-up injury**, especially in plums. The leaf symptoms of zinc deficiency are distinctly different from **iron chlorosis**, but are quite similar to **manganese deficiency**.

Peach rootstocks vary in zinc uptake

Graph shows zinc in dormant shoots (ppm)



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Zinc Deficiency in Plums









Zinc Deficiency in Peaches







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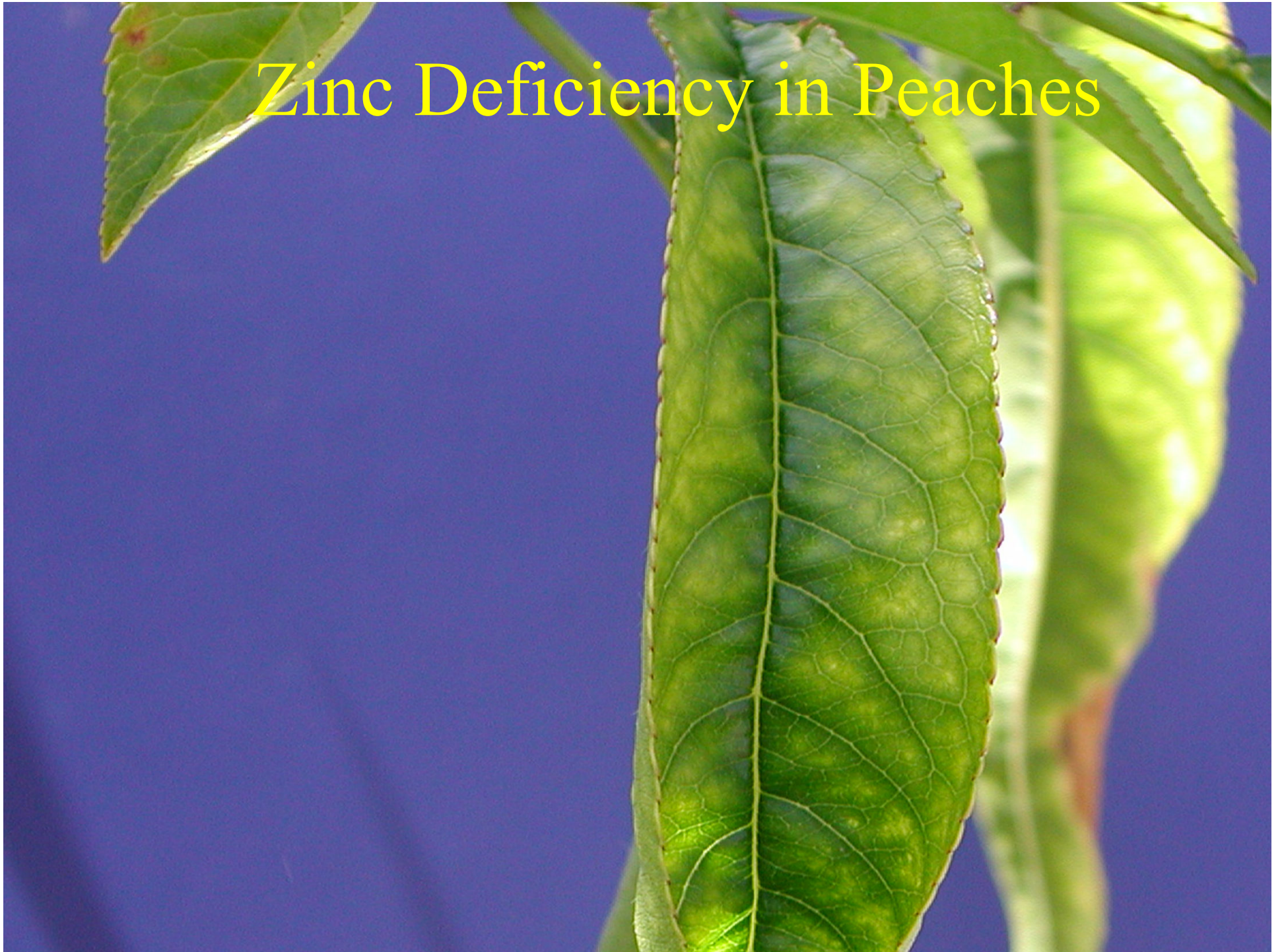
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Zinc Deficiency in Peaches











Zinc Deficiency in Plums



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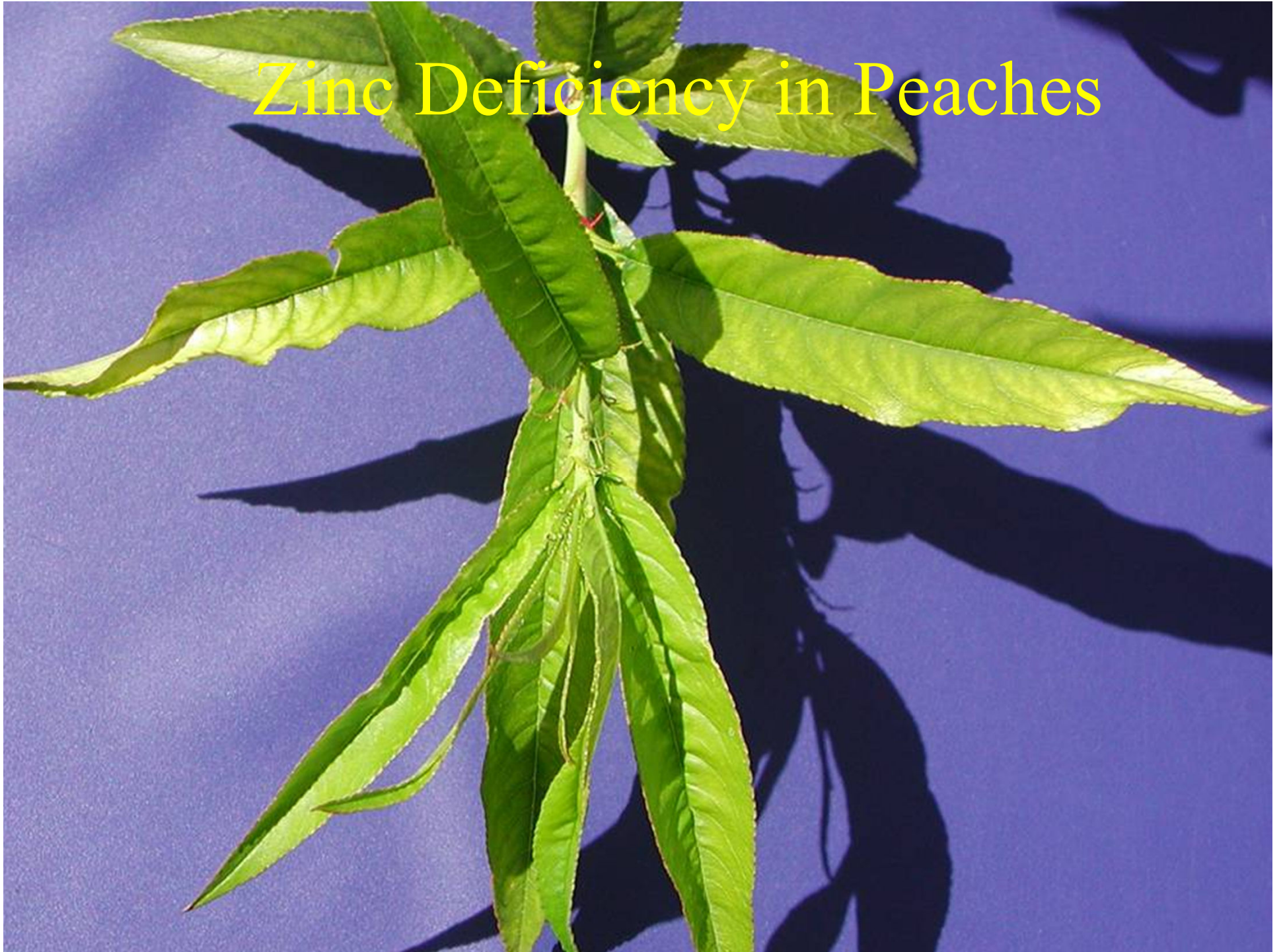
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Zinc Deficiency In Nectarines



February 7, 2005



Zn Deficient

Zn Sufficient

February 14, 2005



Zn Deficient



Zn Sufficient

February 22, 2005



Zn Deficient

Zn Sufficient

February 25, 2005



Zn Deficient

Zn Sufficient

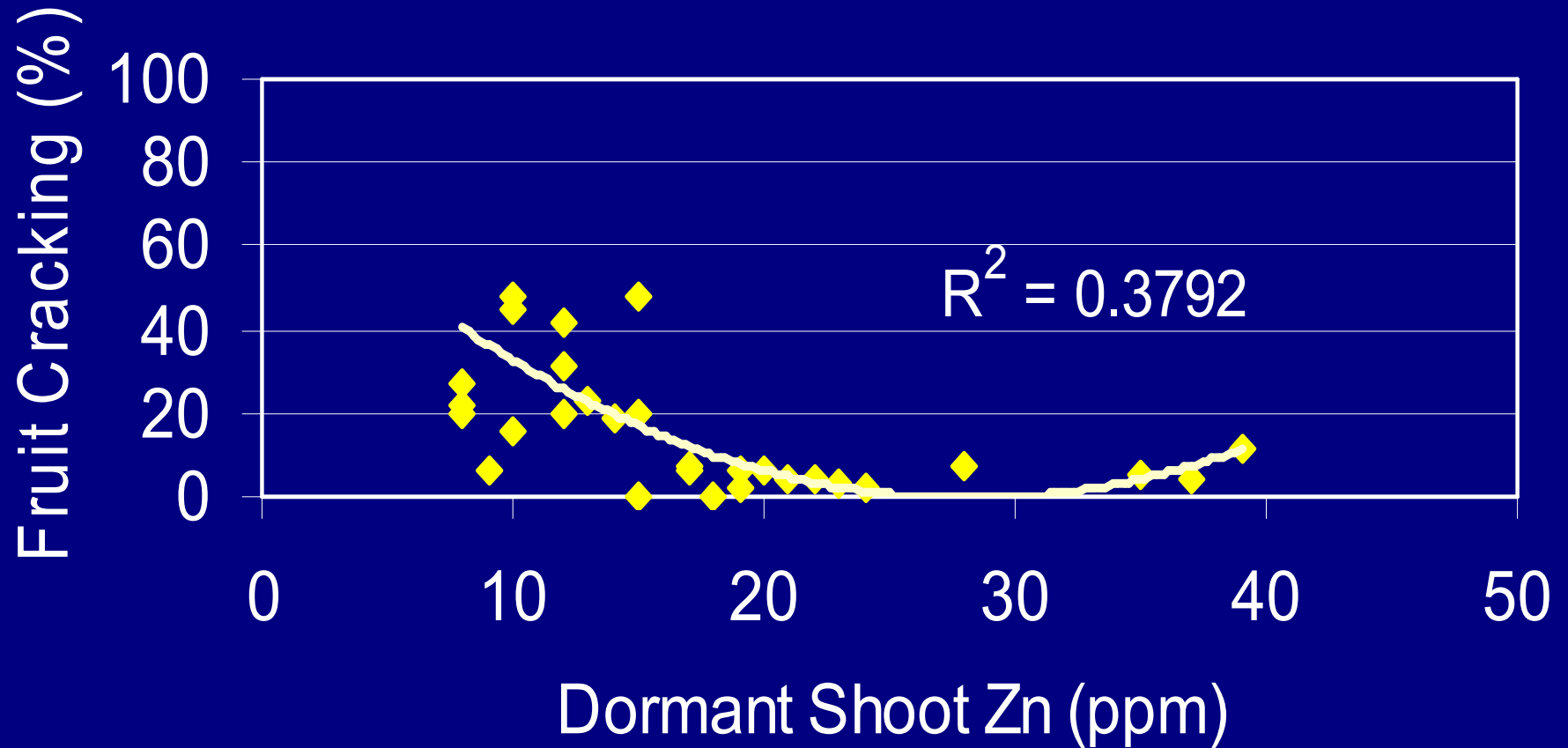
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Grand Pearl Nectarine 2004

Fruit Cracking from Zinc Deficiency









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Iron Deficiency



Zinc Deficiency



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Manganese Deficiency



Zinc Deficiency

