

45H29

First Clubroot Resistant Canola Hybrid for Western Canada

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Crop Genetics Research & Development



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Incidence*severity/highest severity(3)

100*3/3=100 examples 100*1/3=33



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Infested soil test

Susceptible check





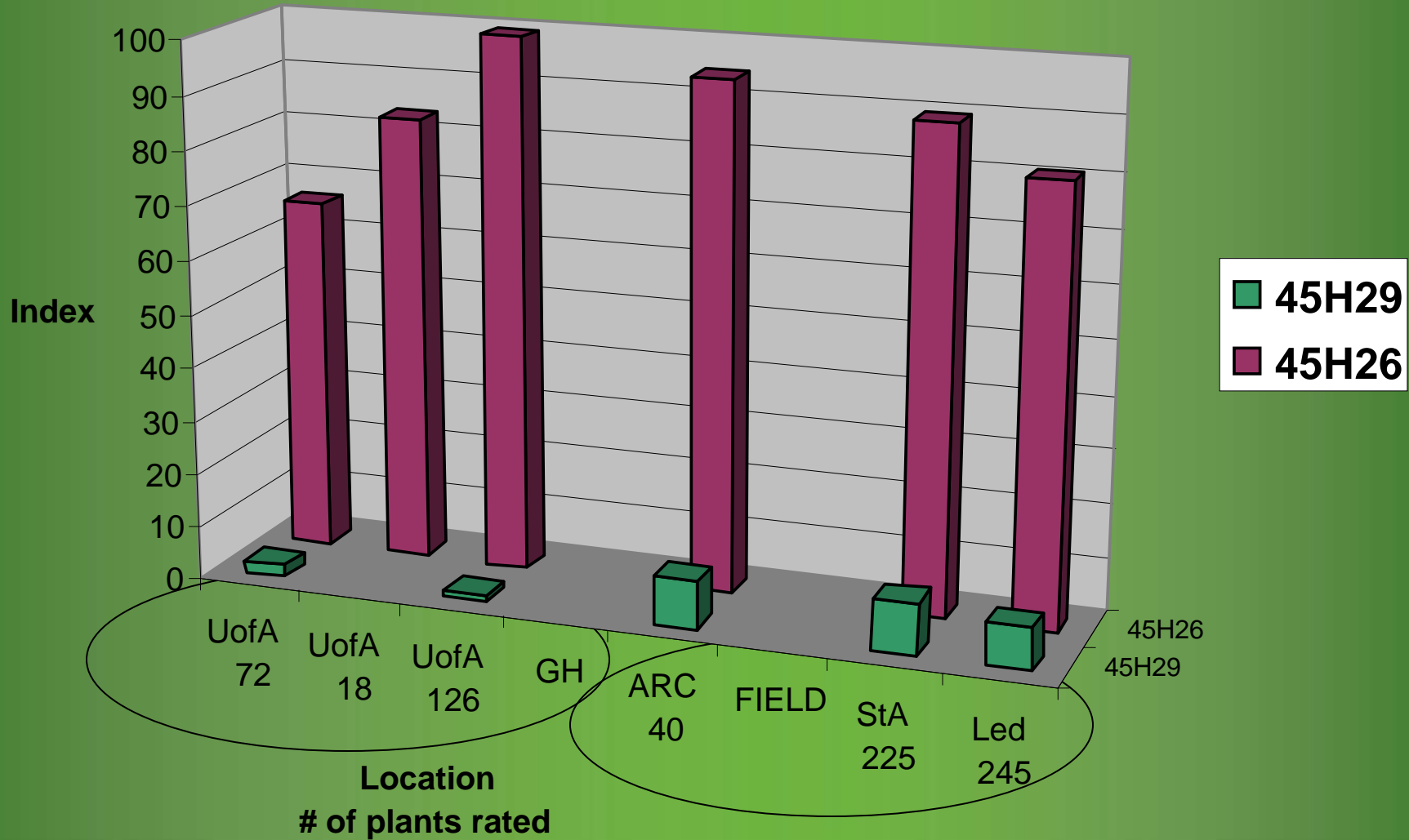
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Race 3 clubroot testing of 45H29 vs. 45H26

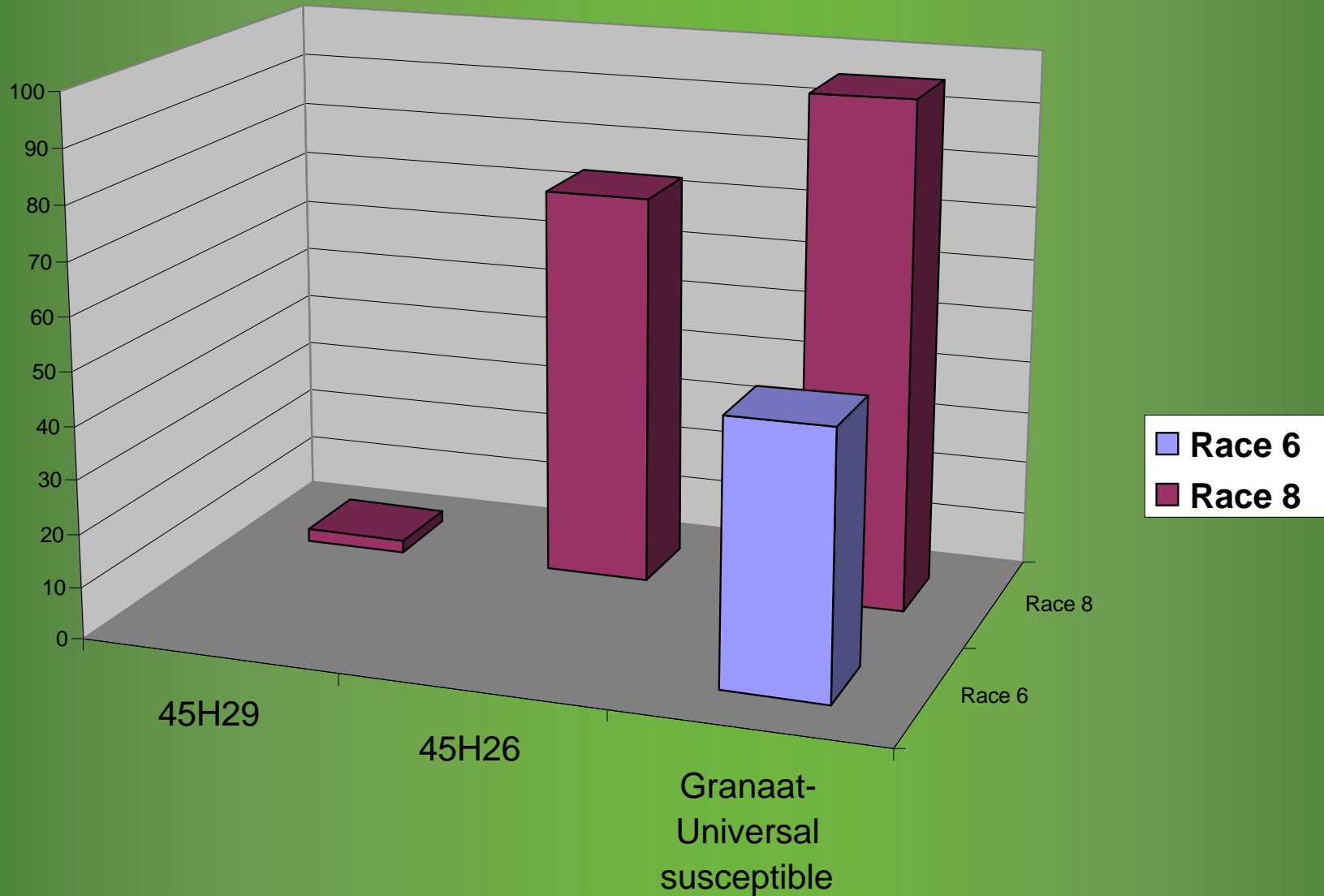


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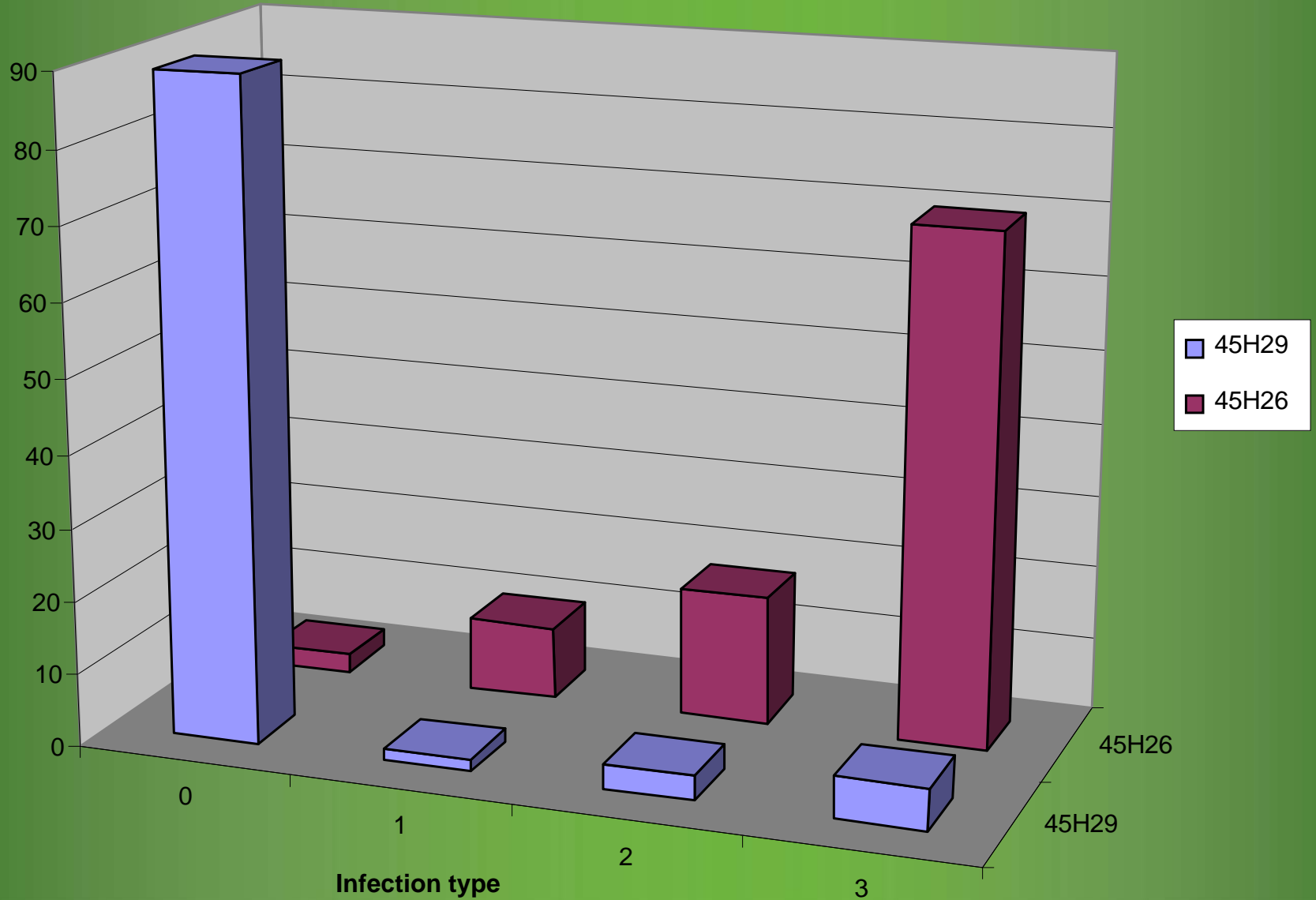
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Leduc and St. Albert 2008 - % of plants vs. infection type



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Characterization Summary

Clubroot

- **45H29 possesses a high level of resistance to Clubroot race 3 (race 2 present within UofA race 3 trials)**
- **No susceptibility to other races in GH trials – includes races 5 (within ARC inoculum), 6 and 8**



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Grower Recommendations

- **Practice smart agronomics:**
 - ♦ Don't shorten rotations
 - ♦ Don't approach this technology as a magic bullet
 - ♦ Follow proper sanitation practices
- **Follow the recommended 1 in 4 year rotation in fields where Clubroot presence has been identified:**
 - ♦ Fields under current restriction in affected counties.
 - ♦ Cannot plant on notice land for 4 years.
- **Keep weeds in check as some are alternate hosts.**



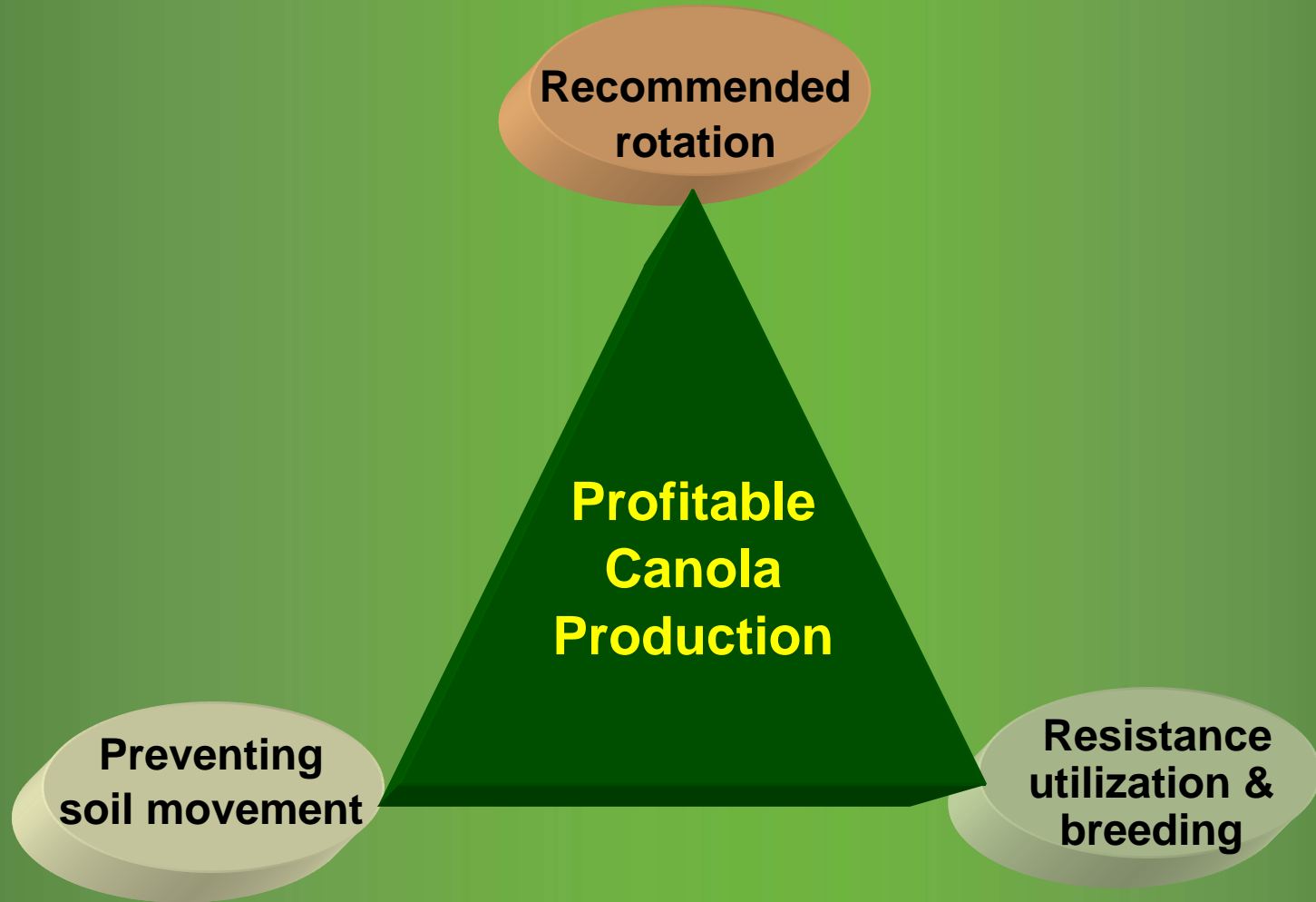
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Future outlook starting with 45H29: Sustainable Management & Stewardship



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“Pioneer is committed to collaborating with local counties and government extension personnel in Alberta and western Canada to ensure the proper and appropriate stewardship of Clubroot resistant genetics so as to preserve the integrity of the technology and provide growers a set of best management practices in the integrated management of this disease”



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