Update on Weed Genetics Research

Michael Christoffers, Ph.D. Department of Plant Sciences North Dakota State University





If Genes were Coins



Chance of heads is 50%







Chance of heads is 100%























Waterhemp Tissue Culture



Germinated seeds

Waterhemp Tissue Culture



Waterhemp Tissue Culture



Growth of Waterhemp in Suspension Cell Culture



Inhibition of Waterhemp Cell Culture by Thifensulfuron-Methyl



Inhibition of Waterhemp Cell Culture by Imazethapyr



Current Status of Gene Drives?









Acknowledgments

- Robert Sabba
- ND Agricultural Experiment Station
- ND Corn Council
- ND Soybean Council
- ND State Board of Agricultural Research and Extension – Soybean
- USDA National Institute of Food and Agriculture