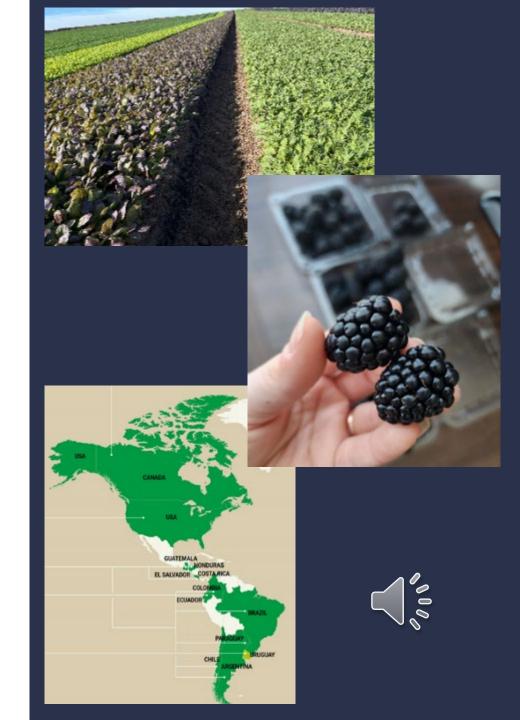


Go To Market Experience: Regulatory



Overview: Genome Editing Regulatory Experience

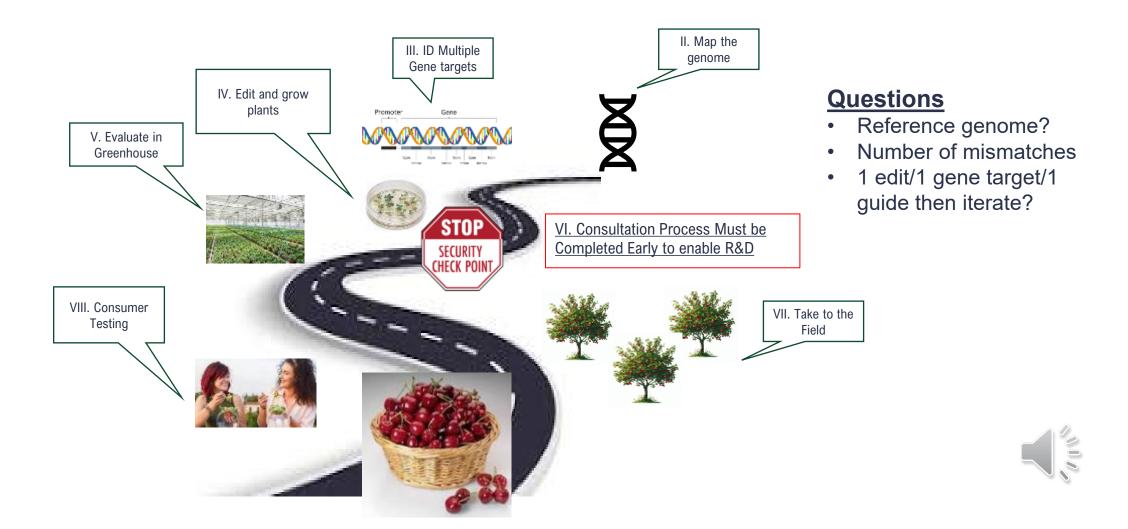
- 33 positive determinations to date that these products are equivalent to conventionally bred plants and not GMO
- Spanning:
 - 2 crops
 - 6 countries
 - 7 regulatory agencies
 - 20 gene targets
- Typical data requirements:
 - · Plant, edit, lack of transgene
- Determination:
 - Equivalent to conventional
- Time to determination:
 - ~60 days (10 hrs. 120 days)







Korea Discussion: More Complicated Approach





FDA: First through New Process



- Released new Guidance: <u>Guidance for Industry: Foods Derived from Plants Produced Using Genome Editing (February 2024) (fda.gov)</u>
- Pre-market meeting: presentation only; no submission
- Ground rules
 - Conclusion implications and options to withdraw
 - Lack of portal for sharing of materials
 - Website posting
 - Internal memo
- Time from initial meeting request to posting on site: ~5 months
 - Compared to recent Health Canada posting: 2 weeks





USDA: Improving, but lags behind other systems



- Exemptions are processed efficiently (60 days), but have limited use
- Regulatory Status Reviews (RSRs)
 - Continue to take a long time...but have gotten a lot more done this year.
 - Step 1 vs Step 2
 - Multiplexing and analysis: molecular stack vs conventional stack vs retransformation
 - Completed one for mustards and one for berries, each with multiple edits
- Positive Trade/Phytosanitary support





Colombia: Building toward a model system



Dirección Técnica de Semillas Subgerencia de Protección Vegetal Instituto Colombiano Agropecuario – ICA Oficinas Nacionales Dirección: Avenida Carrera 20 # 83-20, Edificio NeoPoint 83 – Piso 8 Teléfono: 6017944492

- No in country company registration required as prerequisite to submit
- Market Access: First export of blackberries to the United States in their history
- Phytosanitary: tissue culture shipments
- 60 days to determination
- Multiple plasmids
- Species level
- Inclusion of other approvals





Mexico: Positive Engagement with Broader Stakeholders

Background

- Annual meeting in Guadalajara 2,200 people attended this year
- Nursery, Growers, Packer-shippers, retailers, service providers

Pairwise presented to Aneberries' Board

- Partnered with Simplot and PSI
- Current Minister of Agriculture and Regulator present
- Very high business interest
- Board voted to support the technology

Continued Conversations and Activities planned into 2025















Introducing a New Variety of Blackberry

A primocane fruiting variety with excellent taste and proven PSI base genetics

A New, Primocane Fruiting Blackberry

Flexibility: Very flexible cultivar that can be easily manipulated for year-round production in Mexico/Latin America

Floricane Crop: High yielding and fast time to fruiting

Production: 3 years of commercial production in California and Mexico with excellent yield and fruit quality

Specs

- Appearance: Good for 7-day hold
- Firmness: Good firmness in storage
- **Color:** Good deep color low red drupelet reversion
- Flavor:
 - Great aromatics
 - 10% SS or more
 - 1% acidity
- **Size:** >7 g
- Storage: Store adequately for 14 days





The Pairwise Edited Blackberry Plants For Compact and Thornless





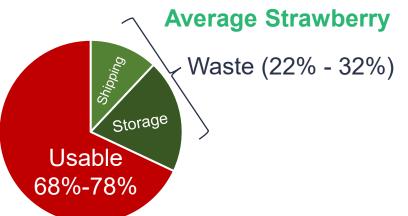




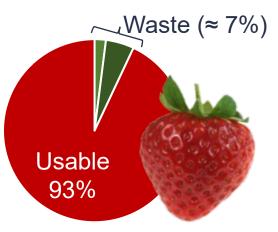


Simplot's Genome Edited Strawberry Extends Fruiting Season

- ☐ Simplot used a strawberry variety with:
 - Good flavor, color, and aroma
 - Long shelf life approximately 15 days
 - Shipping waste can be reduced: ~2%
 - Storage waste can be reduced: ~ 5%
 - A short fruit-bearing window (typically 1 month)
 - Limited production from Dec to Feb
- □ Genome editing provides a solution for fruiting duration:
 - A natural mutation in cultivated and wildstrawberries causes a short season fruiting plant to become a long season fruiting plant
 - Allows strawberry production year-round
 - Commercialize in the United States in 2025



Edited Strawberry





- Family-owned
- International
- ☐ Food and Agriculture
- 15,000 employees
- Production in 7 countries
- Exports to >60 countries









Steady pace of submissions throughout Latin America will continue through 2025 for multiple traits











THANK YOU