

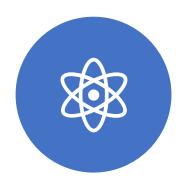
Plants: The Regulatory Frontier

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Modernizing the Regulations



Based advances on science, technology, and experience



Clear, consistent, sciencebased and risk-based framework



Focus on areas of plausible risk to plant health and ease burden in well-understood areas



Nearly two years of experience with the revised regulations (since May 18, 2020)

Three Key Components

EXEMPTIONS and CONFIRMING EXEMPT STATUS (only plants)

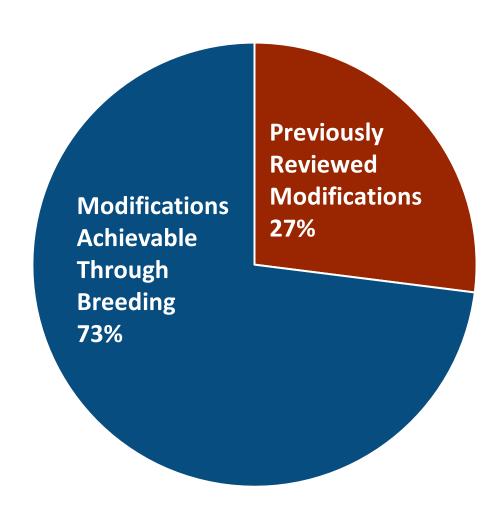
REGULATORY STATUS REVIEW (only plants)

3 PERMITTING



Regulatory Exemptions

- Certain modifications achievable through conventional breeding
- Same plant-trait-mechanism of action combination previously reviewed and found not regulated
- 30 letters confirming a modified plant's exempt status (on average, within 41 days of receiving a complete submission)

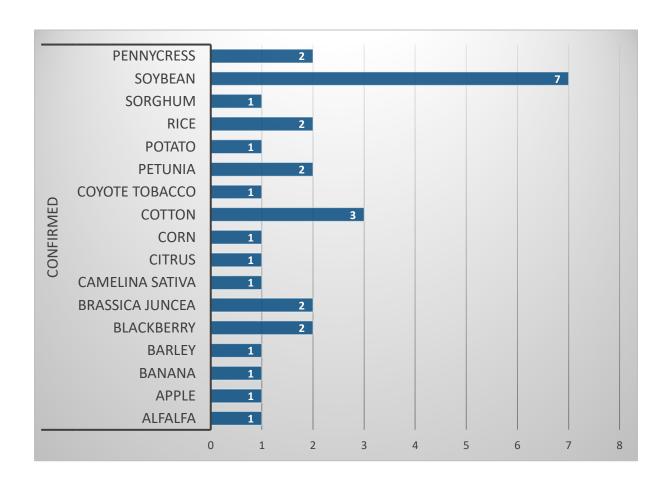




Institution Type

Academia Large Companies **Small and Medium Sized Enterprises**

Plant Varieties



Confirmation Request – Traits

Herbicide, Insect, and Disease Resistance Traits



Product Quality Traits



Agricultural Production Traits







Other









Regulatory Status Review Process

1

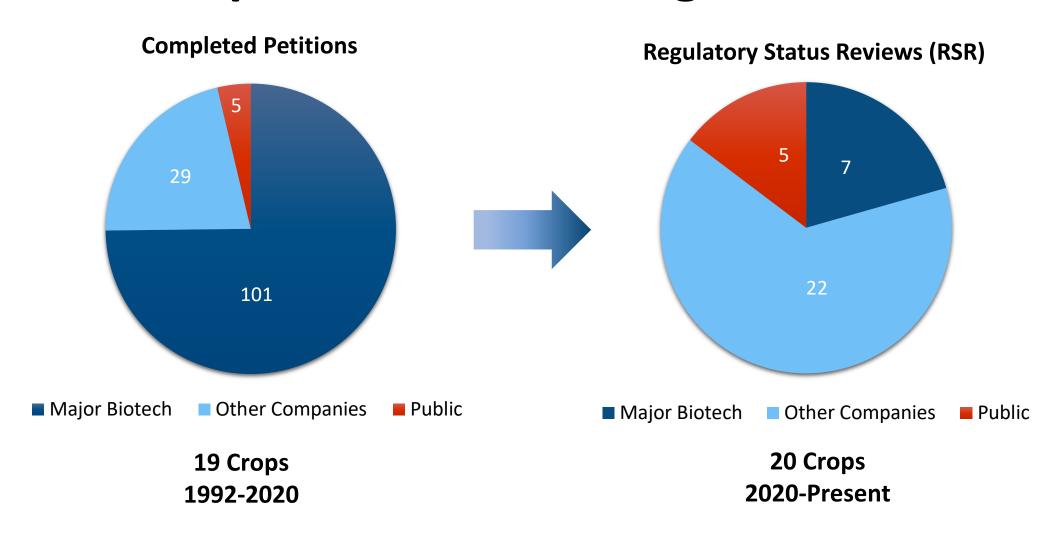
Initial review problem formulation to identify whether there are plausible pathways to increased plant pest risk



2

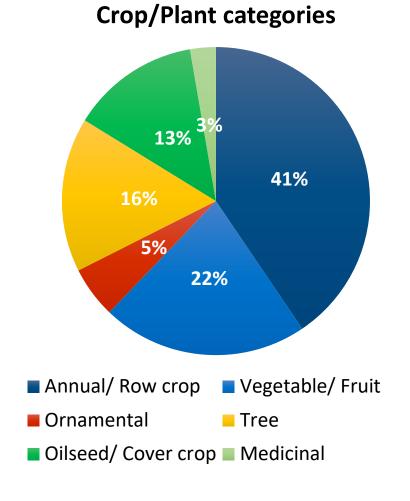
Plant Pest Risk Assessment (PPRA)
determines likelihood and
consequence of any plausible
pathways in the initial review

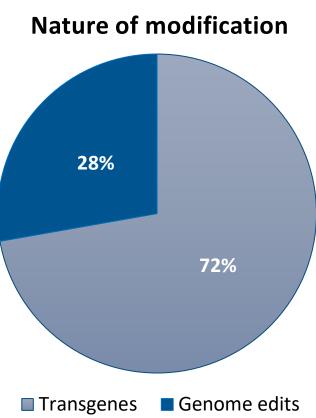
Impact of Revised Regulations



Impact of Revised Regulations









Completed Regulatory Status Reviews



Norfolk Tomato Enhanced Nutrition



Agrivida Corn Improved Digestion for Feed



Toolgen PotatoReduced Browning



Simplot Potato
Improved Product
Quality and Disease
Resistance



Zeakal Soybean
Increased Oil and
Protein





Suntory Flowers
Limited
Chrysanthemum
Altered Flower
Color

Next Steps: Improving Regulatory Processes

Regulatory
Status
Reviews

Firmly establish the RSR process and develop a trained cadre of risk assessors, enabling a high throughput of RSR reviews

Guidance

Provide developers with a guide for submitting inquiries and permits for modified microorganisms microbes

Regulatory Exemptions Act on the notice proposing three new modifications a plant can contain and be exempt from regulation, and respond to comments proposing additional modifications for exemption.



Next Steps: Implementing Executive Order

Identify

Identify areas of ambiguity, gaps, or uncertainties in the Coordinated Framework (March 2023)

Improve

Improve the clarity of the regulatory processes and establish a plan for updating or streamlining regulations and guidance documents (June 2023)

Enhance

Enhance the Unified Website for Biotechnology Regulation (September 2024)

Emerging Themes from Comments

Regulatory Clarity

Guidance, plain language, clarifying agency roles

Regulatory Resources

Training on regulatory process, continued learning for staff

Regulatory Reform/Revision

Streamlining, gap filling, not over-extending scope/authority, labeling

Regulatory Coordination/ Harmonization

Single intake, collaborative decision-making, consistent approaches, cross/interagency issues (calls for OSTP or other WH-led coordination)

