



Update & Budget Review Support for Foundation Plant Services, 2026 -2027



May 20, 2026

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UCDAVIS

Foundation Plant Services



Fruit Tree Program



UCDAVIS

Foundation Plant Services

2025 -2026 Diagnostic Activity

- 6,558 PCR tests performed to date (25,000 annual average)
 - Most PCR is for annual maintenance testing of orchard, which is starting this week.
- 135 Selections tested with HTS
 - Tree material requires two timepoints with HTS and PCR

Fruit Tree Maintenance Testing – 2025

Pome & Prunus Testing: Trees Removed due to Virus Detection

- 6 PDV+ Mahaleb seed trees at Goheen
- 2 Phytoplasma+ *Prunus* trees at Goheen
- 19 Phytoplasma+ *Pyrus* trees at Russell Ranch
 - All RRO pears have been removed

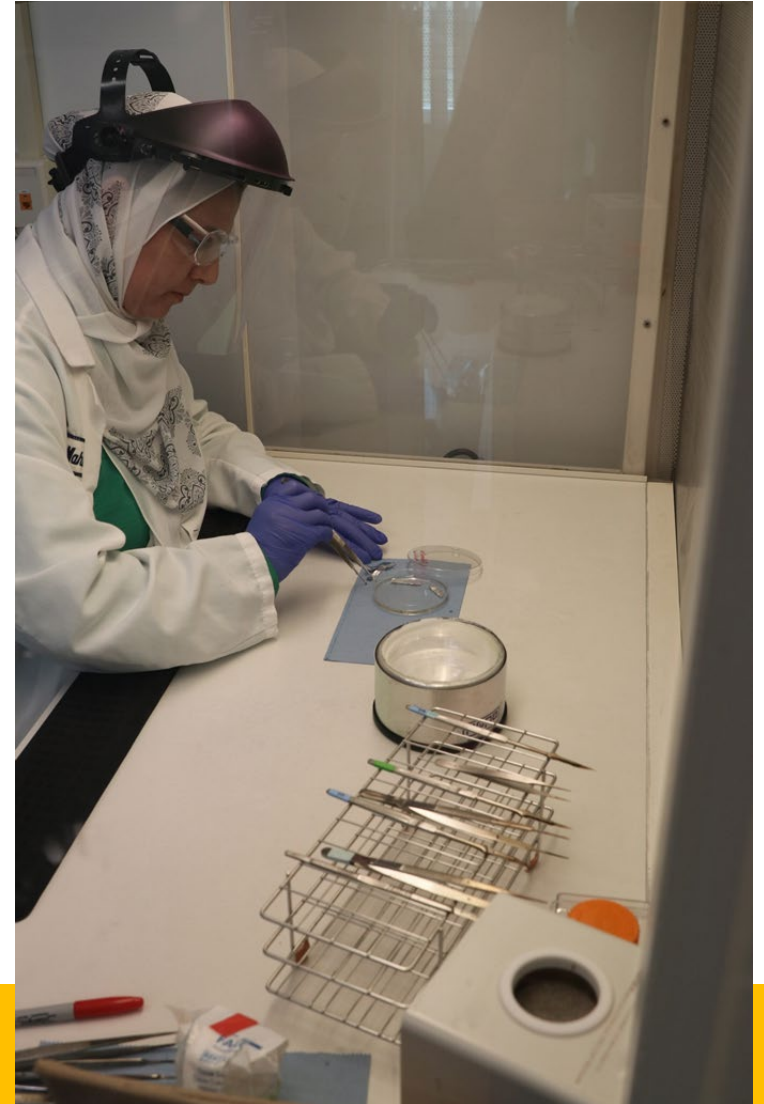
IAB's support is an important budget factor in the intensive maintenance testing for the orchards.

Fruit Tree Maintenance Testing – 2026

- We will test for phytoplasma twice in summer
 - 2025 experience: 1 pear positive at June testing, 18 positive at August/September testing.

2025 -2026 Tissue Culture Lab - Trees

- 169 clonal families worked on in the lab
- 72 clonal families acclimated to soil
 - 45 in 2024-2025
 - 4 in 2023-2024
- Continuing to refine cryotherapy protocols



2025 -2026 Tissue Culture Lab - Trees

- PCR screening has been used to identify invitro material that is still virus positive, and advance only what is negative at preliminary testing.
 - If CVA, PNRSV, or PLMVd are detected the plantlet is terminated.
- This PCR screening showed us that virus elimination success using *only* microshoot-tip tissue culture was low.
 - Comparatively: invitro pre-screening of material after cryotherapy shows promising results!

Fruit Tree: Introductions

2025 -2026

- 46 new releases
- 108 selections received

| Introduction Source | Quantity |
|---------------------|----------|
| Domestic | 20 |
| Under Quarantine | 88 |

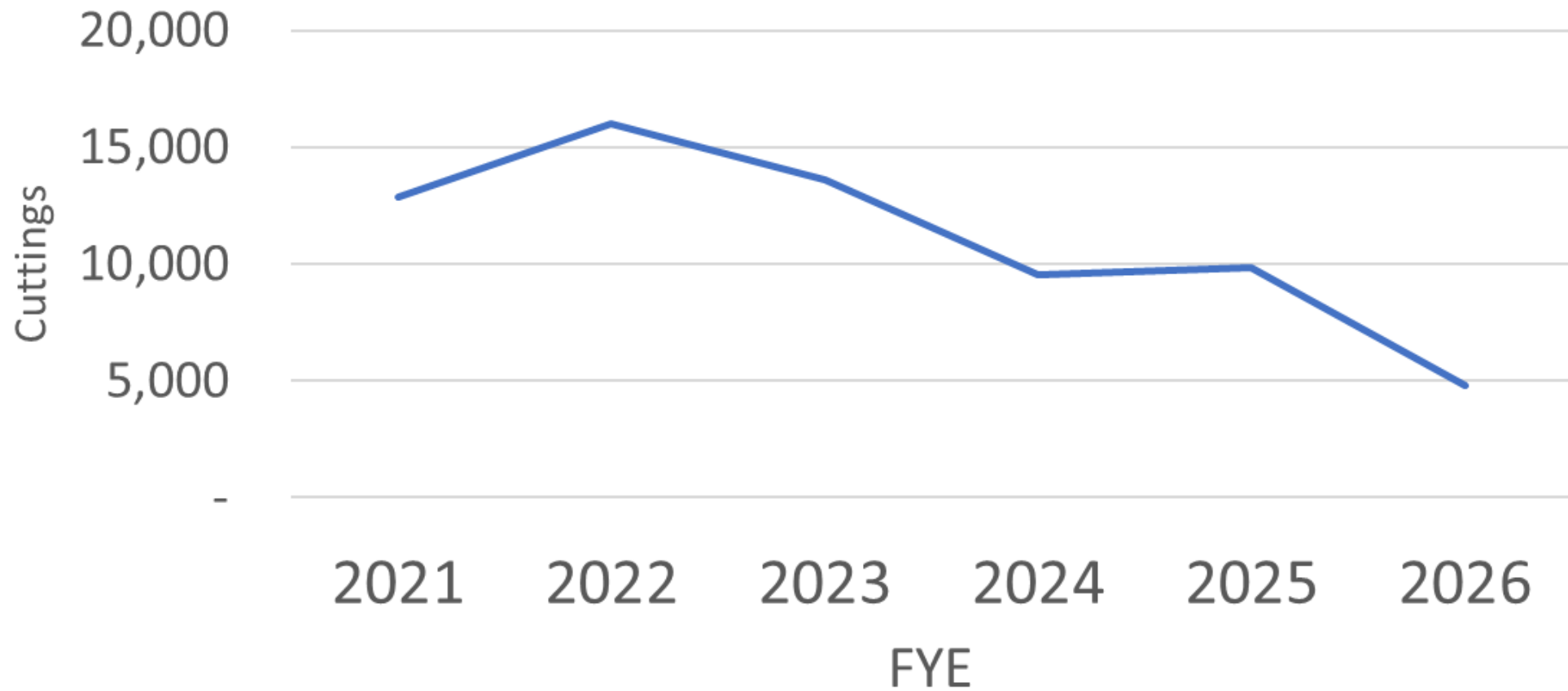
| Introduction Type | Quantity |
|-------------------|----------|
| Public | 3 |
| Proprietary | 105 |

| CROP | GROUPS INTRODUCED |
|-------------------|-------------------|
| APPLE | 4 |
| APRICOT | 9 |
| CHERRY | 35 |
| NECTARINE | 32 |
| OLIVE | 11 |
| PEACH | 8 |
| PEACH/ALMOND | 1 |
| PEAR | 4 |
| PEAR ROOTSTOCK | 1 |
| PLUMCOT | 3 |

Fruit Tree: Collection & Distribution

| FOUNDATION | | DISTRIBUTION* | | | |
|------------------|-------|---------------|------------|---------|---------|
| Total selections | 587 | | | | |
| Total plants | 2,506 | | | | |
| | | Out of State | California | Total | |
| | | Cuttings | 1,039 | 2,889 | 3,928 |
| | | Seeds | 106,200 | 144,200 | 250,400 |
| | | Buds | 1,982 | 2,301 | 4,283 |

FRUIT TREE DISTRIBUTION



UC DAVIS

Foundation Plant Services

Grapes



UC DAVIS

Foundation Plant Services

2025 -2026 Diagnostic Activity

- 122,308 PCR tests performed to date
- 191 Selections tested with HTS
 - Grape material requires two timepoints with HTS and PCR

Classic Foundation Vineyard – 2025 Virus Testing

- Of 5,002 vines
 - 1 positive for GLRaV-3
 - 1 positive for GRBV
 - = 2 vines removed in August 2025,
immediately upon virus detection
- CDFR and affected customers notified
of detection & removal.



Classic Foundation Vineyard Testing History

| Year | Vines Tested | Total Vines* | GRBV Positive Vines | GRBV Incidence | GLRaV-3 Positive Vines | GLRaV-3 Incidence |
|------|--------------|--------------|---------------------|----------------|------------------------|-------------------|
| 2017 | 3,604 | 4,088 | 1 | 0.02% | 0 | 0% |
| 2018 | 4,127 | 4,075 | 0 | 0% | 0 | 0% |
| 2019 | 4,167 | 4,075 | 1 | 0.02% | 0 | 0% |
| 2020 | 4,301 | 4,270 | 0 | 0% | 0 | 0% |
| 2021 | 4,594 | 4,594 | 0 | 0% | 0 | 0% |
| 2022 | 4,660 | 4,660 | 0 | 0% | 0 | 0% |
| 2023 | 4,634 | 4,634 | 0 | 0% | 0 | 0% |
| 2024 | 4,881 | 4,881 | 0 | 0% | 1 | 0.02% |
| 2025 | 5,002 | 5,002 | 1 | 0.02% | 1 | 0.02% |

Grapes: Tested Twice

- First test: in the **fall** we use leaf petiole samples to test **every vine** for GRBV and GLRa V-3, **every year**.
 - Sample both sides of vine, 6 petioles each
- Second test: dormant material from every vine that material is distributed from is tested again, to ensure it is free of GRBV and GLRa V-3.



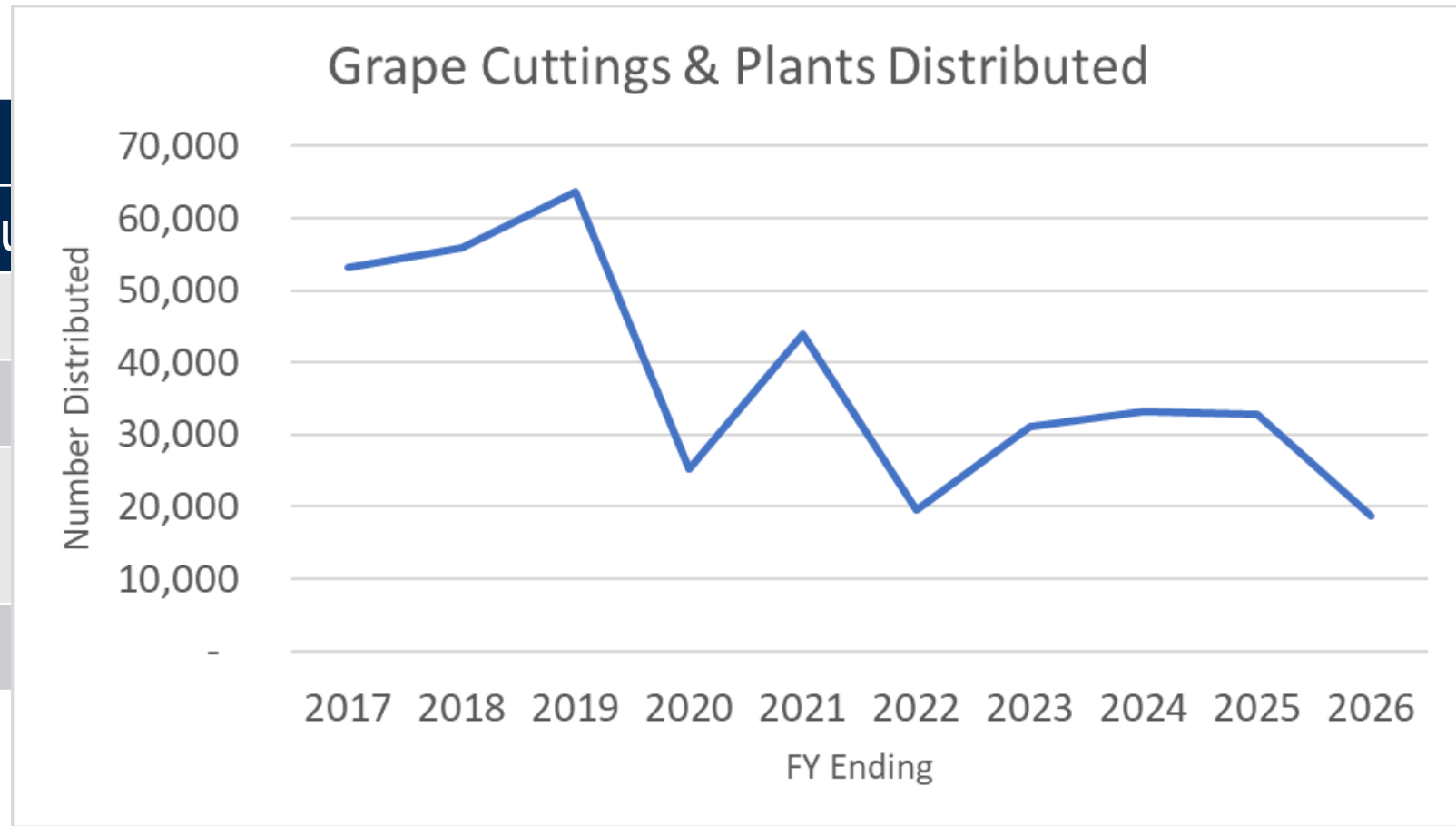
Grapes: Distribution

| DISTRIBUTION | | | |
|-----------------|--------------|------------|--------|
| | Out of State | California | Total |
| Cuttings | 4,822 | 13,417 | 18,239 |
| Seeds (1/4#) | 360 | 0 | 360 |
| Flower Clusters | 0 | 30 | 30 |
| Plants | 0 | 475 | 475 |

Dormant testing confirmed that source mothers were GRBV and GLRaV-3 negative.

Grapes: Distribution

| | Out |
|-----------------|-----|
| Cuttings | |
| Seeds (1/4#) | |
| Flower Clusters | |
| Plants | |



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2025 -2026 Tissue Culture Lab - Grapes

- 81 clonal families worked on in the lab
- 28 clonal families acclimated to soil
- Cryotherapy will be tested for grapevine fanleaf virus elimination
 - GFLV can be difficult to eliminate, even with heat therapy prior to excision.

Grapes: Introductions

2025-2026

- 42 new selections
- 68 selections released

| Introduction Type | Quantity |
|-------------------|----------|
| Public | 9 |
| Proprietary | 33 |

| Introduction Source | Quantity |
|---------------------|----------|
| Domestic | 20 |
| Under Quarantine | 22 |

Grapes: Collection

FOUNDATION

| | |
|---------------------------------------|-------|
| Total Cultivars | 1,108 |
| Classic Foundation Clonal Families | 1,830 |
| Classic Foundation Plants | 5,200 |
| Greenhouse Foundation Clonal Families | 1,364 |
| Greenhouse Foundation Plants | 2,599 |



Screenhouse Progress

We expect the structure to be ready to occupy in **June**

- Hundreds of grapevines are waiting to move in—this can't come soon enough!



Indoor Grapevine Maintenance Needs

- Will divide the collection between greenhouse and screenhouse
- Will need additional nursery staff to maintain the larger indoor collection.
- Some vines in greenhouse were kept in small pots to increase the number of individual clones we could secure in Phase 1.
 - Need potting up this winter



How we are managing the FPS budget

- Hiring is limited to essential functions
- Now offering Berry Import & Quarantine service
- Applying for more research funding from different sources
- Increased the request from NCPN, easily justified by the amount of work that FPS does
- Working hard to increase UCB#1 sales internationally

Staffing Update

- 10% of the team is planning to retire this year!
 - Retirements from all divisions: administration, production, and lab operations
- Hiring activities:
 - Recall some retired employees to continue work part-time
 - Recruit for vacant roles
- University Hiring Freeze is causing delays



Berry Activities

- Berries added to FPS 588 CIP in May 2025
 - Immediate demand for import services
- 35 selections received to date (\$5,000 each)
 - 2 *Fragaria*
 - 24 *Rubus*
 - 9 *Vaccinium*
- *If virus elimination is needed, adds \$2,000/each*

This was \$0 income program before 2025.

Working with only UCD Strawberry



Berry Activities

Diagnostic services in demand:

- 40 HTS tests for berry industry customers

Pricing updated January 1 – applies to all crops:

- HTS \$755/sample
- PCR \$53/sample/test

Current Research Funding

| Project | Sponsor | Start Date | Amount |
|--|--------------------------|------------|------------------|
| Sweetpotato HTS vs. Indexing – Year 1 | USDA PPA7721 | 9/1/25 | \$143,941 |
| New Kapa Kit on Hamilton liquid handler: HTS Validation – Year 1 | USDA PPA7721 | 9/1/25 | \$75,271 |
| Strawberry Nursery Survey – Year 3 | USDA PPA7721 | 9/1/25 | \$240,000 |
| Berry HTS vs. Indexing – Year 3 | USDA PPA7721 | 9/1/25 | \$124,122 |
| Berry HTS Ring Test – Year 1 | USDA PPA7721 | 9/1/25 | \$116,449 |
| Agave Virus Screening – Year 1 | CDFA | 1/1/25 | \$39,910 |
| Hiplex PCR – Strawberry Year 2 | CA Strawberry Commission | 2/1/25 | \$80,760 |
| Hiplex PCR – Grape Year 2 | PD Board | 7/1/25 | \$99,339 |
| Sudden Vine Collapse | AVF | 6/15/25 | \$59,000 |
| | TOTAL | | \$978,792 |

New Research Funding 2026 -2027

| Project | Sponsor | Start Date | Amount |
|--|------------------------|------------|-------------------|
| Sweetpotato HTS vs. Indexing – Year 2 | USDA PPA7721 | 9/1/26 | \$150,313 |
| New Kapa Kit on Hamilton liquid handler: HTS Validation – Year 2 | USDA PPA7721 | 9/1/26 | \$79,023 |
| Berry HTS Ring Test – Year 2 | USDA PPA7721 | 9/1/26 | \$133,782 |
| Agave Virus Screening – Year 2 | CDFA | 1/1/26 | \$51,106 |
| Hiplex PCR – Blueberry Year 1 | USDA PPA 7721 | 2/1/26 | \$103,135 |
| Hiplex PCR – Grape Year 3 | CDFA PD Board | 7/1/26 | \$70,830 |
| Sudden Vine Collapse | American Vineyard Fdn. | 6/15/26 | Budgeted \$60,113 |
| | TOTAL | | \$648,302 |

NCPN Funding

| Year | Total Proposed | Total Awarded | % Awarded |
|-----------|----------------|--------------------|-----------|
| 2021-2022 | \$1,643,769 | \$1,620,647 | 99% |
| 2022-2023 | \$2,031,918 | \$1,820,646 | 90% |
| 2023-2024 | \$2,168,695 | \$1,885,768 | 87% |
| 2024-2025 | \$2,438,756 | \$2,277,000 | 93% |
| 2025-2026 | \$3,140,928 | \$2,403,764 | 76% |
| 2026-2027 | \$3,522,803 | \$3,074,853 | 87% |

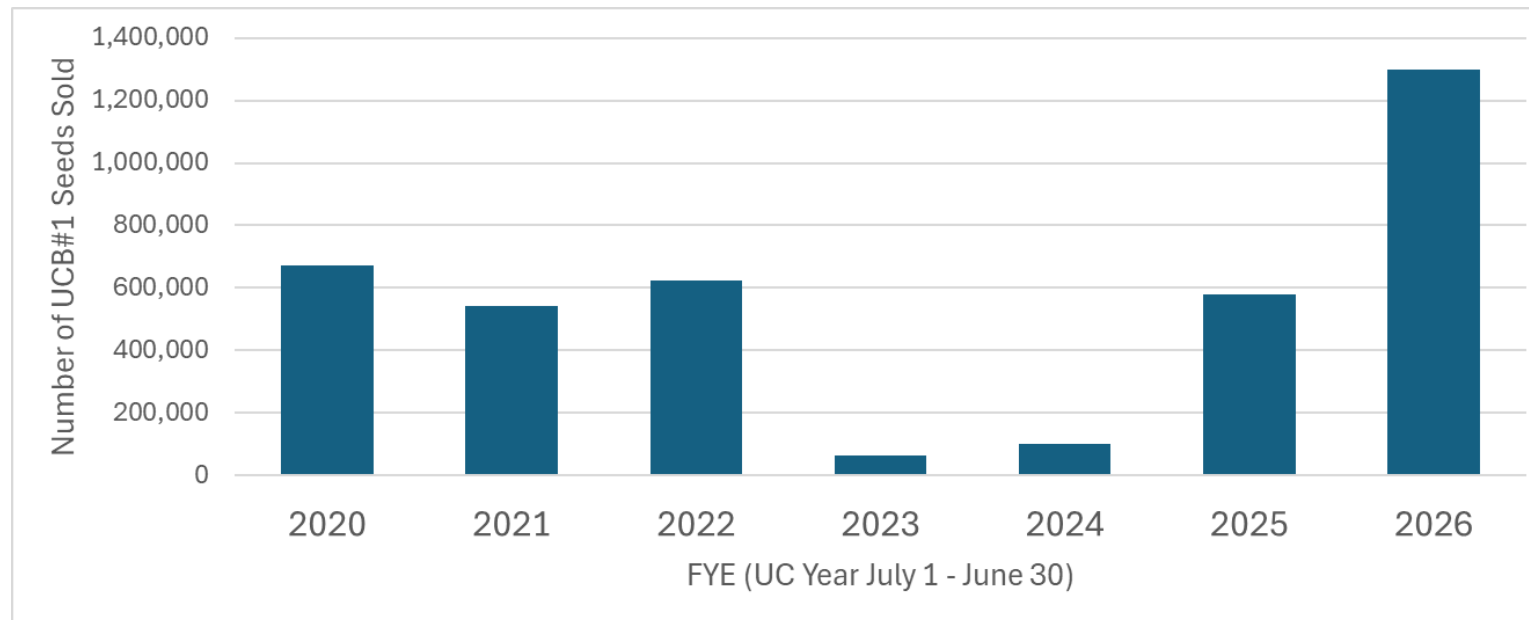
For 26-27 we are also funded for work on a special Database Initiative, for \$103,000. This is in addition to the \$3,074,853 program funding, above.

NCPN Network Updates

- CPCNW has a new director: Sudarsana Poojari
 - Introduced last week (5/15) in Fruit Trees Center Director meeting
 - Will coordinate with him for Grape activities in a scheduled June meeting.
- FPS quarantine and maintenance services remain in high demand.
 - Grapes, Fruit Trees, Berries

UCB#1 Sales

- Historically, 100% of UCB#1 sales were domestic.
- We have cultivated international markets and sold a record number of seeds this year.



IAB Funding

- We expect IAB funding to be limited by state of the industry

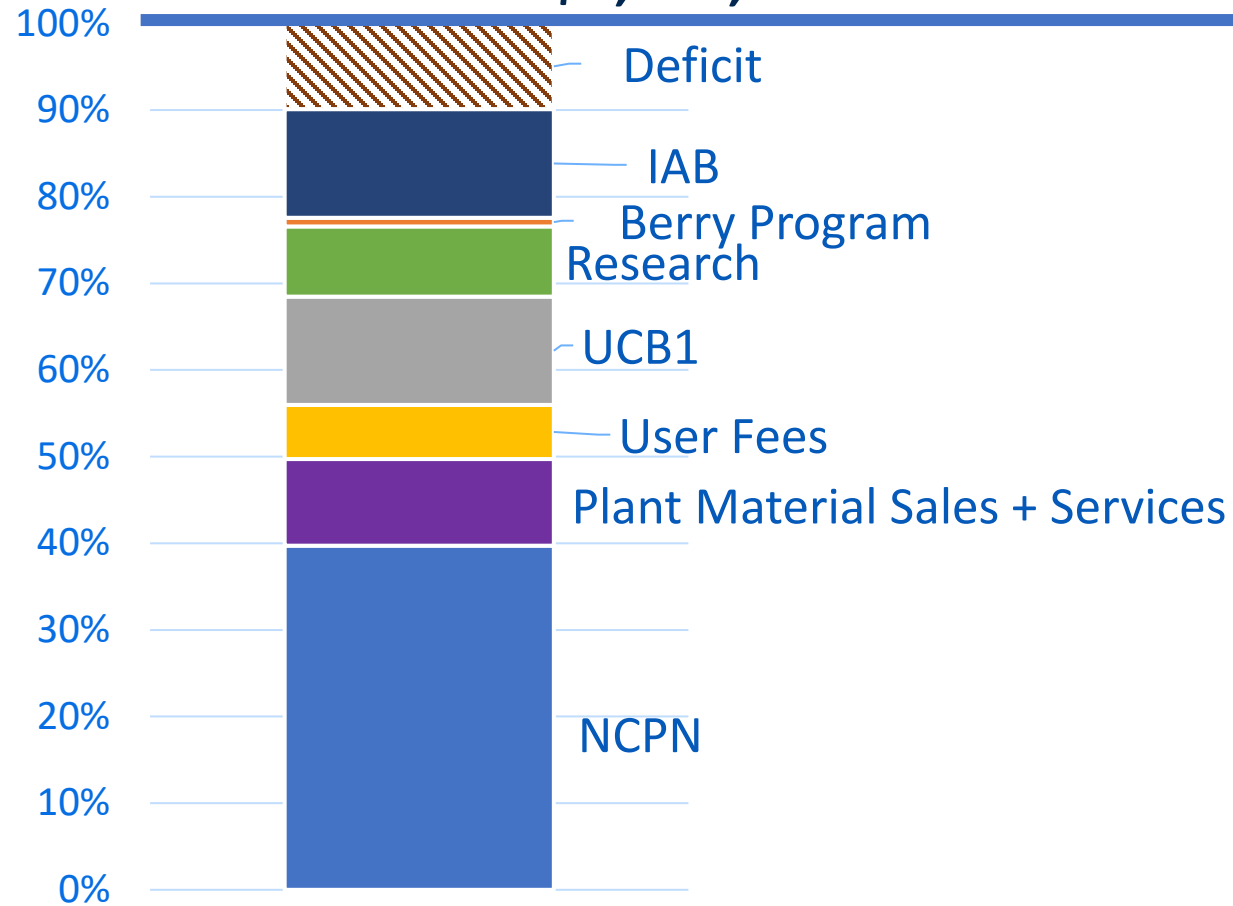
| Year | Total Proposed | Total Awarded | % Awarded |
|-----------|----------------|---------------|-----------|
| 2021-2022 | \$1,343,470 | \$1,343,470 | 100% |
| 2022-2023 | \$1,771,350 | \$1,771,350 | 100% |
| 2023-2024 | \$1,832,402 | \$1,564,342 | 85% |
| 2024-2025 | \$1,993,657 | \$1,564,342 | 78% |
| 2025-2026 | \$1,993,083 | \$1,256,504 | 63% |
| 2026-2027 | \$1,542,504 | TBD | TBD |

FPS 2026-2027 Budget Summary Table

| BUDGET ITEM | BASE PROGRAM | SUPPLEMENT TO BASE | TREE | GRAPE | TOTAL |
|---|--------------|--------------------|-----------|-----------|-------------|
| Base program support | ✓ | | \$274,908 | \$289,083 | \$563,991 |
| FPS Director (25%) and Production & Quality Manager (25%) salary & benefits | ✓ | | \$68,220 | \$68,220 | \$136,440 |
| PCR testing of the orchards for 6 pathogens | ✓ | | \$59,483 | | \$59,483 |
| Testing and propagation of FPS Foundation Greenhouse grapevines | ✓ | | | \$94,871 | \$94,871 |
| PCR testing Classic Foundation vineyard for 19 pathogens | ✓ | | | \$107,634 | \$107,634 |
| Micro satellite analysis of trees and grapevines | | ✓ | \$127,650 | \$134,976 | \$262,626 |
| Tissue culture virus elimination | | ✓ | \$95,366 | \$94,138 | \$189,504 |
| SUBTOTAL | \$962,419 | \$452,130 | \$625,627 | \$788,922 | \$1,414,549 |
| <i>plus 10% University Overhead Costs</i> | | | | | \$127,955 |
| TOTAL FUNDS REQUESTED | | | | | \$1,542,504 |

Status Check: FY26-27 Funding Needs

\$8,000,000 OPERATING BUDGET



Thank you, IAB!



Thank you, FPS team!