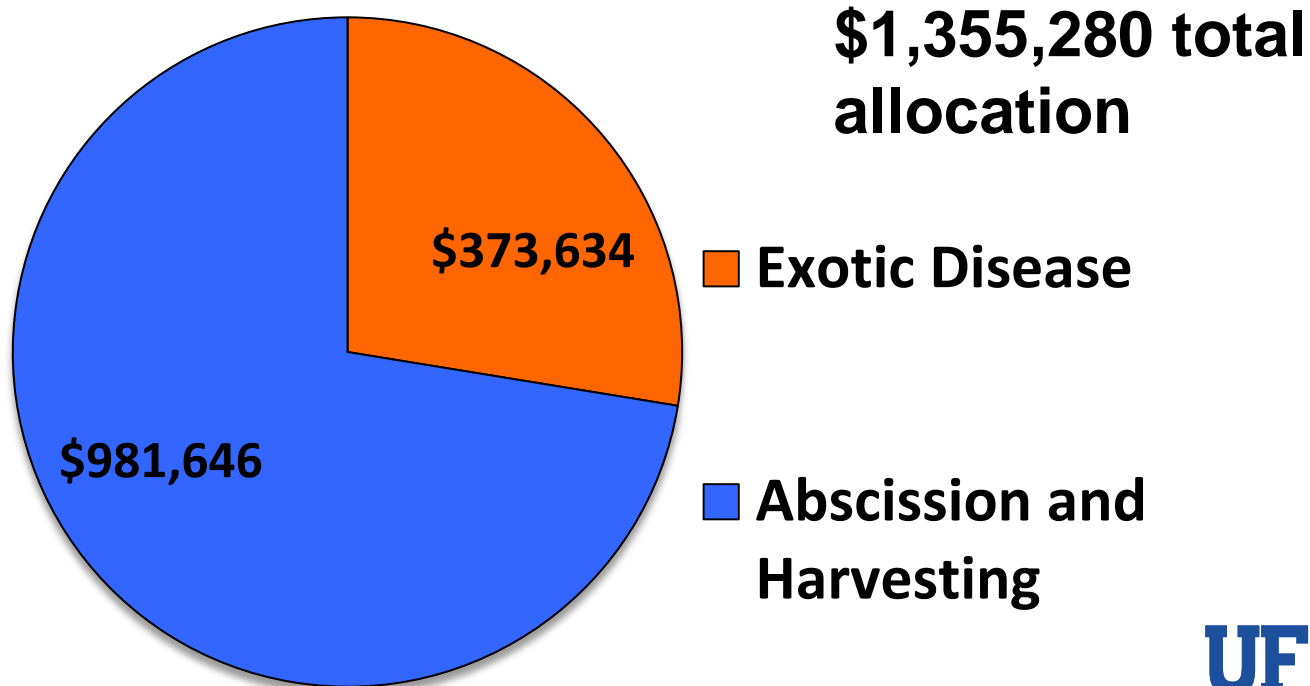


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Program development and planning:

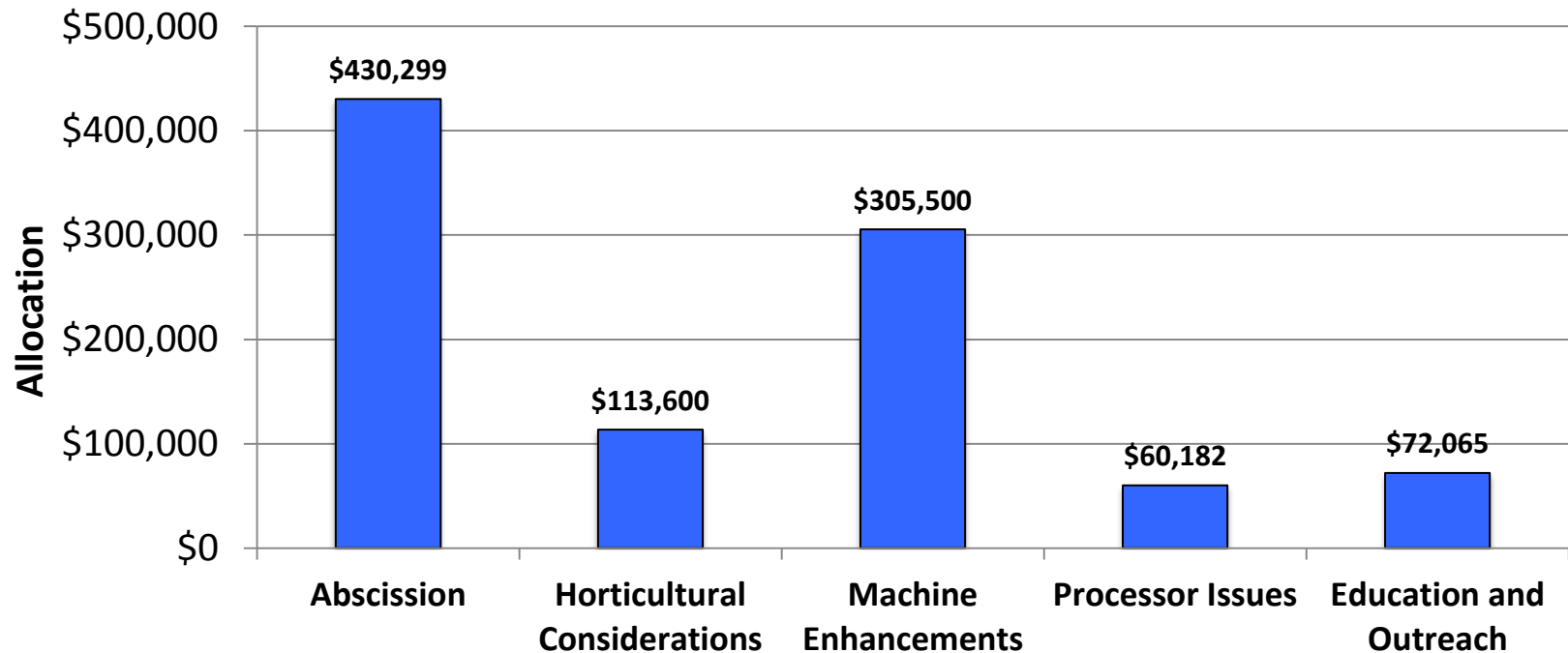
- Southwest Florida Harvesting Advisory Committee
- Florida Dept of Citrus Harvesting Research Council
- UF/IFAS Deans for Research and Extension



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Program allocation

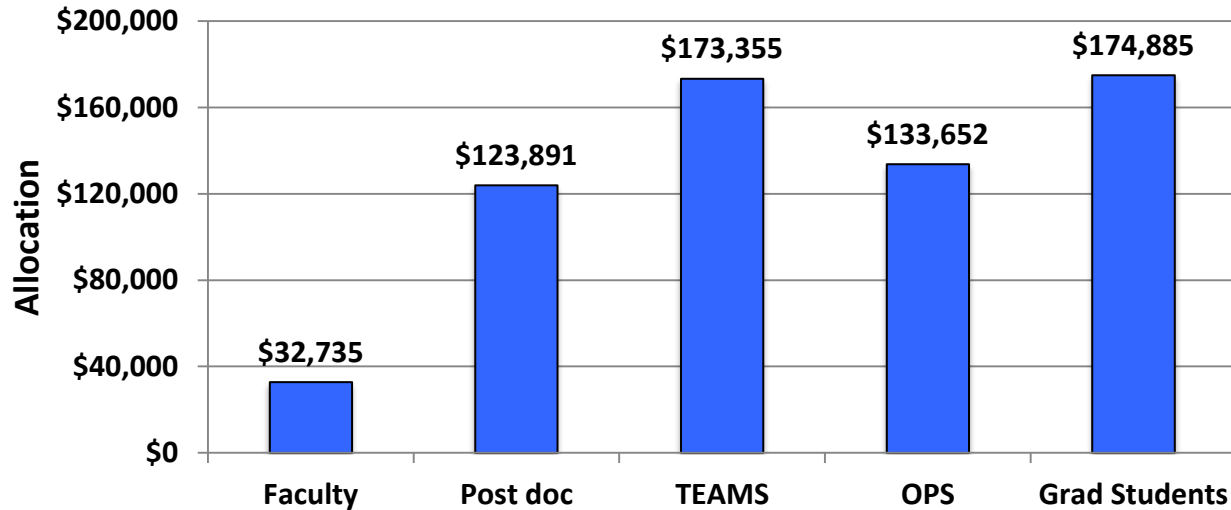
Abscission and Harvesting Programs



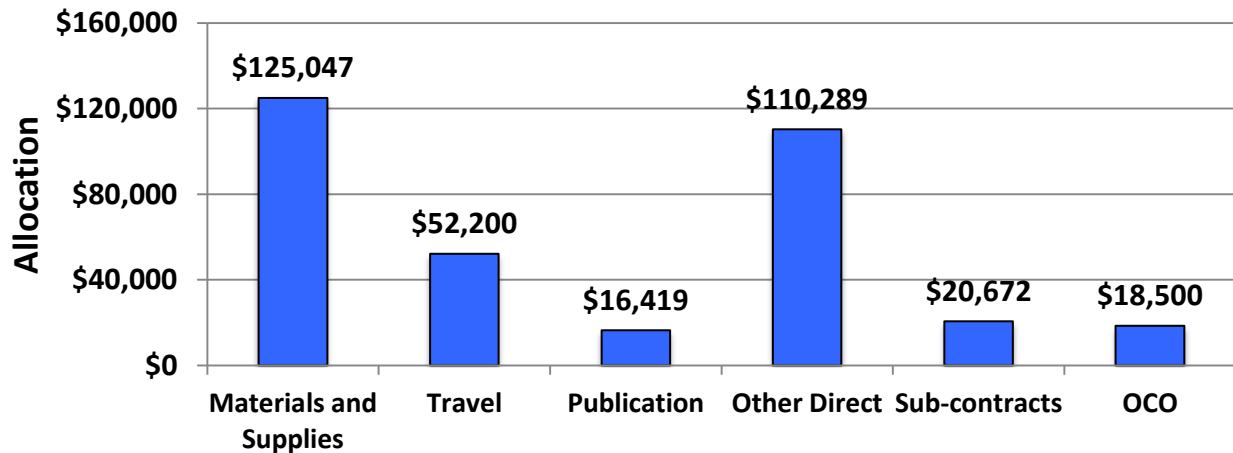
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Abscission and Harvesting allocation breakdown

Abscission and Harvesting - Personnel \$638,518



Abscission and Harvesting - Operating Expense \$343,127



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PIs and Projects – Abscission and Harvesting Program

PI	Project
Burks	Catch-frame/recovery rate improvements
Burns	Abscission control, managing registration compound repository
Danyluk	CMNP effects on juice quality, juice yield
Ebel	BMPs for MH/CMNP harvest system technology
Ehsani	Trash removal systems, over-the-row harvesters for HD planting, catch frame and tine improvements
Morgan	MH impacts on trees, tree condition and MH, hort requirements for over-the-row harvesters
Roka	Abscission and harvesting education and outreach, economic models
Spann	CMNP formulation efficacy, effects on peel integrity, EUP educational program development
Syvertsen	Tree health, overcoming late season problems

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Accomplishments– Abscission and Harvesting Program

Abscission:

- Executive summary, 12 years of CMNP efficacy – platform to build EUP education program
- Preliminary model of CMNP efficacy under Florida conditions
- Diurnal regulation, control of ethylene sensitivity
- Participating in grower/agrochemical co. EUP planning

Horticultural issues:

- Winter drought stress delays flowering, avoids MH fruitlet loss
- Oleocellosis damage of fruitlets in late season MH does not affect fruit quality

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Accomplishments– Abscission and Harvesting Program

Machine enhancements:

- Modeled fish-scale improvements, yield monitoring
- Auto-guidance control architecture prototype development
- Model, simulation framework to test canopy force x acceleration
- Ultrasonic canopy measurement device to assist MH tine placement
- Testing tractor-assisted trash removal system

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Accomplishments– Abscission and Harvesting Program

Processor issues:

- CMNP reduces trash in loads, less than hand harvest loads
- No correlation between MH and fruit microbial load
- CMNP increases fruit decay, but no commercial impact

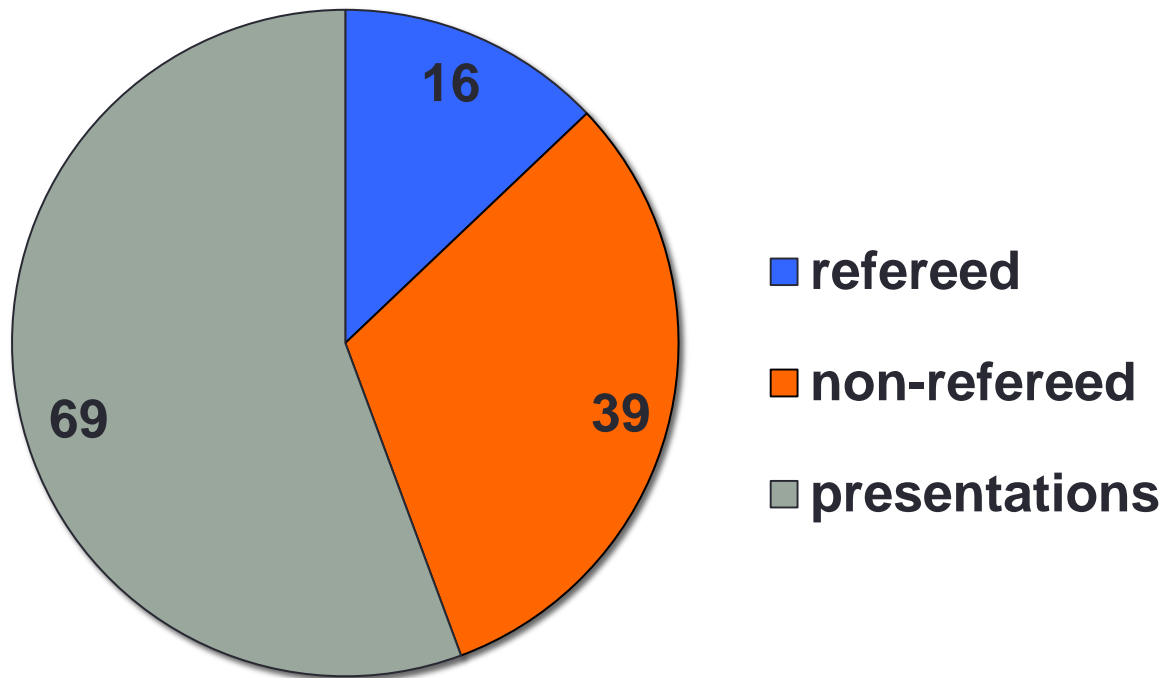
Education and outreach:

- Monthly CI mag articles, featured articles, presentations
- Two field days and workshops, EUP outreach and training
- Citrus MH website; 28K visits, 331K hits, 225K downloads

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Program output

All CI programs – publications and presentations



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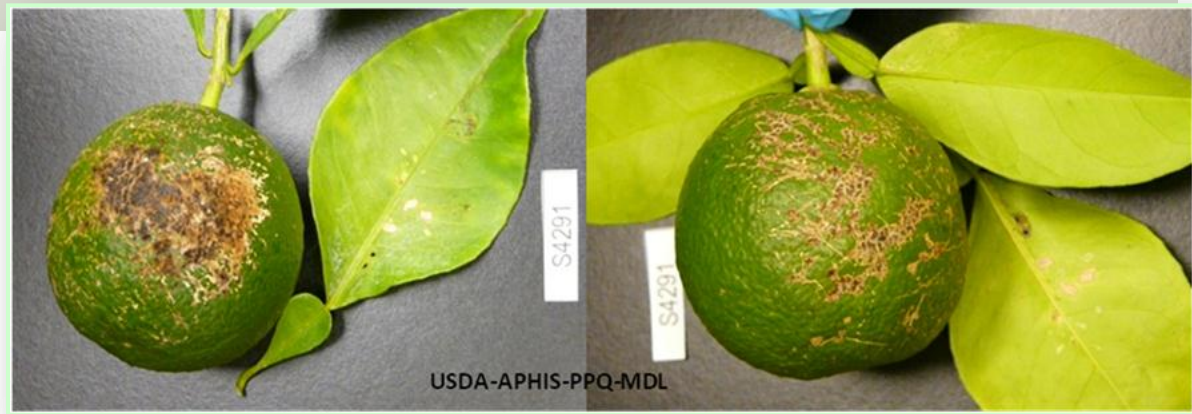
Future Direction

Abscission and harvesting program

- Expand MH x CMNP trials with larger acreage
- Strengthen CMNP efficacy model
- Continue late-season harvesting trials
- Registration support activities
- Abscission control points
- Interaction between disease, MH, tree decline
- Improve MH with add-ons, value-added devices
- Understand and control peel integrity impacted by CMNP
- Education and outreach efforts after EUP granted

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Future Direction



Exotic disease program

Sweet Orange Scab in Florida

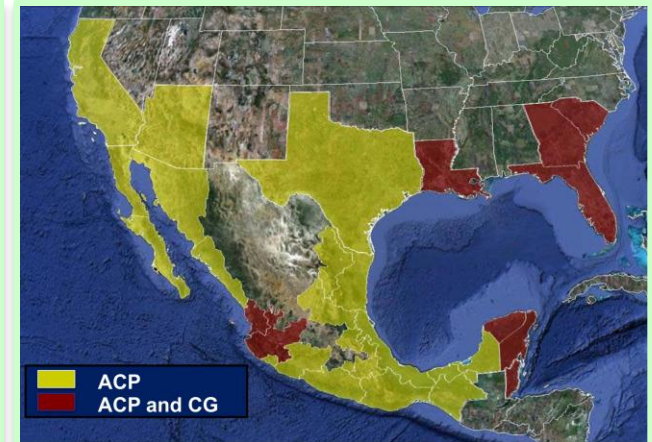
- Establish metrics of CHMA success
- Determine presence, spread of CBS, SOS, inoculum mitigation, canker transgenic testing
- Proactive research on exotic diseases likely to arrive in FL
- Education and outreach on existing diseases must continue, new exotic disease quick response



**Mechanical harvesting
In SW Florida**



**Citrus black spot
In SW Florida**



**HLB and ACP distributions
In US and Mexico**