

Grapevine Nursery Stock Registration and Certification Program

Program Overview and Proposed Changes

December 18, 2014

Nursery, Seed, and Cotton Program

Pest Exclusion Branch

California Department of Food and Agriculture

CDFA Divisions

Animal Health
and Food
Safety
Services

Fairs and
Expositions

Pierce's
Disease
Control
Program
(GWSS)

**Plant Health
and Pest
Prevention
Services**

Marketing
Services

Inspection
Services

Measurement
Standards

PHPPS Branches

Plant Pest
Diagnostics

Integrated
Pest Control

Pest Exclusion

Pest Detection /
Emergency Projects

Pest Exclusion Programs

**Nursery, Seed, and
Cotton Program**

**Exterior Exclusion
(Border Stations)**

Interior Exclusion

**Emergency
Quarantine
Response**

Grapevine Registration and Certification Program Overview

- Voluntary program to certify grapevines for improved confidence of cleanliness for specific diseases of concern
- Established in 1956; last revised in 2010
- Program includes eligibility, testing, inspection, and maintenance requirements
- Top-level source of all program material is Foundation Plant Services (FPS) at UC Davis

Grapevine Registration and Certification Program Overview

- Broad testing for diseases to be entered into the foundation block at FPS
- Testing of foundation vines and increase blocks for Fanleaf (GFLV), Tomato Ringspot (ToRSV), and Leafroll (GLRaV)
- Visual growing season inspections of foundation blocks and increase blocks, and growing season and harvest inspections of certified plantings
- Additional location and source requirements for all registered and certified vines

Grapevine Registration and Certification Program

Foundation Plant Services

Stock tested at highest level

Foundation stock

Participant Nurseries

Visual inspections and
disease testing

Increase Blocks
(Registered Stock)

Participant Nurseries

Visual inspections

Certified Blocks
(Certified Stock)

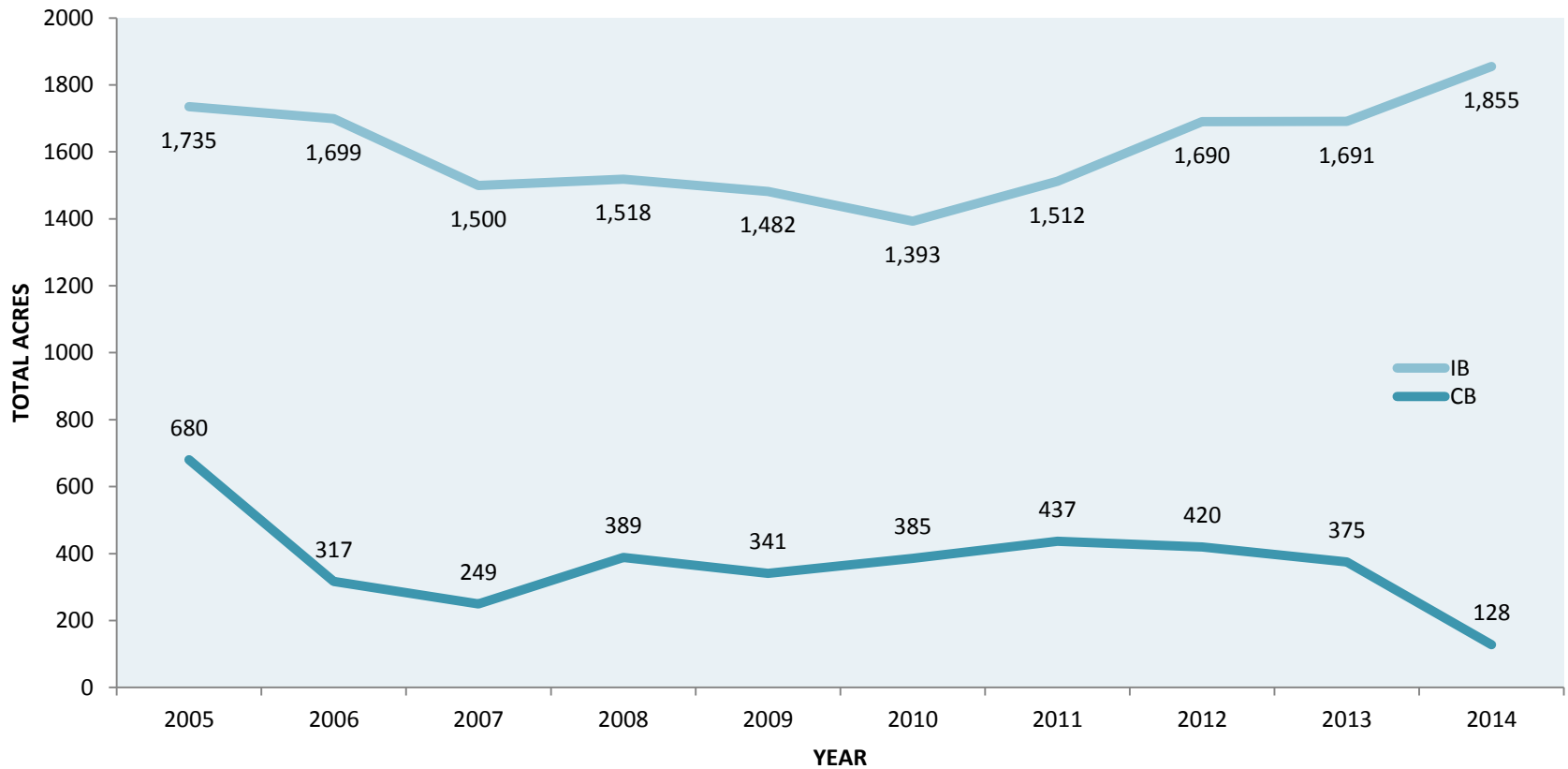


Grapevine Registration and Certification Program Overview

- For 2014, the program has:
 - 31 total participants
 - 73 registered increase blocks, with 1,855 total acres
 - 5 certified nursery field plantings, with 127 total acres
 - 5 certified greenhouse plantings, with 424,860 total square feet
- Since 2010, the program has collected an average of \$140,000 per year in fees

Grapevine Registration and Certification Program Overview

TOTAL PROGRAM ACREAGE 2005-14



Request for Rulemaking

- Summer 2014, CDFA staff met with industry to discuss the program
- Primary issues and concerns:
 - Red Blotch Disease & the level, timing, and frequency of inspection and testing for all diseases
 - Block location and eligibility requirements
 - Traceability of stock in system
 - Standards for suspending/cancelling certification
 - Other regulatory and non-regulatory options
- On October 23, CDFA received a request to hold public meetings to review and update the regulations and begin the rulemaking process.

Red Blotch Disease

- Described for the first time in Napa Valley in 2008 on Cabernet Sauvignon
- Grapevine Red Blotch-associated Virus (GRBaV) first reported in California and New York in 2012
- GRBaV has been detected in the US in CA, NY, VA, MD, PA, TX, and WA, as well as in Canada
- Vector(s) not yet known

Current Disease Testing of Candidate Foundation vines at FPS

Test or Indicator Plant	Disease or Disease Agent
St. George	Grapevine Degeneration, Fleck, and Corky Bark
Cabernet Franc	Leafroll
LN-33	Corky Bark
Herbaceous indicators: <i>Chenopodium sp.</i> <i>Cucumis sativa</i> <i>Nicotiana clevelandii</i>	Grape Decline and Grape Degeneration
ELISA/PCR	Grapevine Fanleaf Virus (GFLV)
ELISA/PCR	Tomato Ringspot Virus (ToRSV)
ELISA	Grapevine Leafroll associated viruses (GLRaV) 1, 2, 3, 6, 7
PCR	Grapevine Leafroll associated viruses 1, 2, 3, 4, 5, 7, 9, 2RG
Kober 5BB or PCR to detect GVA	Kober Stein Grooving
PCR	Grapevine Virus B (GVB)

Current Disease Testing Frequency

- Every grapevine in a **foundation** block shall be retested by FPS at least once every five years for Fanleaf, Tomato Ringspot, and Leafroll associated viruses.
- Primary and secondary **increase** blocks shall be tested by the CDFA at least once every five years for Fanleaf, Tomato Ringspot, and Leafroll associated viruses.
- **Certified** nursery plantings may be tested by CDFA for Fanleaf, Tomato Ringspot, and Leafroll associated viruses

Current Inspection Frequency

- Foundation block – at least two visual disease inspections of each vine during each growing season
- Increase blocks – at least one visual inspection by CDFA each growing season
- Certified nursery planting – one visual inspection by CDFA each growing season, and stock is inspected at time of digging

Comments or proposals
regarding testing and inspection

Current Planting Location Requirements

- Planting location must be approved in advance by CDFA
- Located in an area where contamination by soil-borne virus diseases of grapevines from drainage, flooding, etc. is unlikely
- For foundation and increase blocks: land may not have been planted with non-registered or disease infected grapevines within previous 10 years

Current Planting Location Requirements

- Foundation and Increase Blocks:
 - at least 100 feet away from land on which non-registered grapevines have been grown within past 10 years (foundation, registered, or certified stock may be planted within this buffer)
- Certified nursery plantings:
 - at least 10 feet from non-certified grapevines if soil has been treated for nematodes; at least 20 feet from non-certified grapevines if no treatment has occurred
 - fallow for at least one year between nursery crops

Current Eligibility Requirements

- Foundation Block:
 - cuttings from existing foundation vines, or candidates tested for required diseases
 - propagated in greenhouse, screenhouse, or shadehouse
 - verified true-to-variety
 - no topworking

Current Eligibility Requirements

- Primary Increase Block:
 - foundation stock, or cuttings from registered vines in the same contiguous block
 - may be topworked once
- Secondary Increase Block:
 - foundation stock, or registered stock from a primary increase block (by the same participant)
 - no topworking

Current Eligibility Requirements

- Certified Nursery Planting:
 - foundation stock or registered stock
 - may remain in planting for no more than two years
 - cuttings from a certified planting less than 12 months old may be used for production of additional certified stock, after inspection and approval from CDFA

Comments or proposals
regarding planting location or
eligibility requirements

Traceability of stock

- FPS recordkeeping requirements:
 - Maintain inventory of all registered vines in foundation blocks
 - Maintain records of all vines removed and reason for removal
 - Maintain testing and inspection records of all vines
 - Report to CDFA upon request records of all foundation stock distributed
 - Provide participants documentation for all materials and vines received

Traceability of stock

- Participant recordkeeping requirements:
 - Maintain inventory of all grapevines planted in increase blocks
 - Maintain records of vines removed from blocks and reason for removal
 - Maintain records of all vines that have been topworked
 - Maintain records of all registered and certified stock produced, sold, and/or traded for at least five years
 - Provide any of the above records to CDFA upon request within 5 working days
 - Identify/label registered and certified vines in the blocks with variety name and FPS selection number

Comments or proposals
regarding traceability of stock

Suspension or Cancellation of Registration/Certification

- Vine is found to be infected with a disease or disease agent of concern
- Off-type vines
- Source vine is diseased and progeny are suspected or determined to be infected
- General pest cleanliness requirements are not met
- Any other requirements of the article are not met

Suspension or Cancellation of Registration/Certification

- Suspended vines must be identified and may be retained in the planting
- Stock from suspended vines may maintain its registered status during this process (at CDFA's discretion)
- Cancelled or off-type vines must be removed from an increase block within one month of notification
- Cancelled or off-type vines in a certified nursery planting may be retained and sold as common stock

Suspension or Cancellation of Registration/Certification

- FPS is required to notify CDFA, and all program participants who are affected, of any foundation vines found to be diseased or off-type
- Participants are required to notify in writing all who have received nursery stock from suspended or cancelled vines within 14 days of notification from CDFA

Comments or proposals
regarding suspension and
cancellation

Comments or proposals
regarding any other sections of
the Grapevine Registration and
Certification Program regulations

Thank you

Joshua Kress

(916) 654-0435

joshua.kress@cdfa.ca.gov

www.cdfa.ca.gov/plant/pe/nsc