

# Grapevine Nursery Stock Registration and Certification Program

Program Overview and Proposed Changes

August 19, 2015

Nursery, Seed, and Cotton Program

Pest Exclusion Branch

California Department of Food and Agriculture

- A copy of the regulations and more information on the program can be found at:

[http://www.cdfa.ca.gov/plant/pe/nsc/nursery/  
grapevine.html](http://www.cdfa.ca.gov/plant/pe/nsc/nursery/grapevine.html)

- Written comments may be submitted to:

[joshua.kress@cdfa.ca.gov](mailto:joshua.kress@cdfa.ca.gov)

or

[nurseryservices@cdfa.ca.gov](mailto:nurseryservices@cdfa.ca.gov)

## CDFA Divisions

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**Nursery, Seed, and  
Cotton Program**

**Exterior Exclusion  
(Border Stations)**

**Interior Exclusion**

**Emergency  
Quarantine  
Response**

# History of the Grapevine Registration and Certification Program

- 1950: “Virus-free nursery stock program” initiated by CDFA
- 1956: Grapevine Registration Program established
- 1958: Program amended to include certified stock
- 1984: Major changes in testing requirements
- 2010: Revised regulations established

# Grapevine Registration and Certification Program Overview

- Voluntary program to certify grapevines for improved confidence of cleanliness for specific diseases of concern
- 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

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

- 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

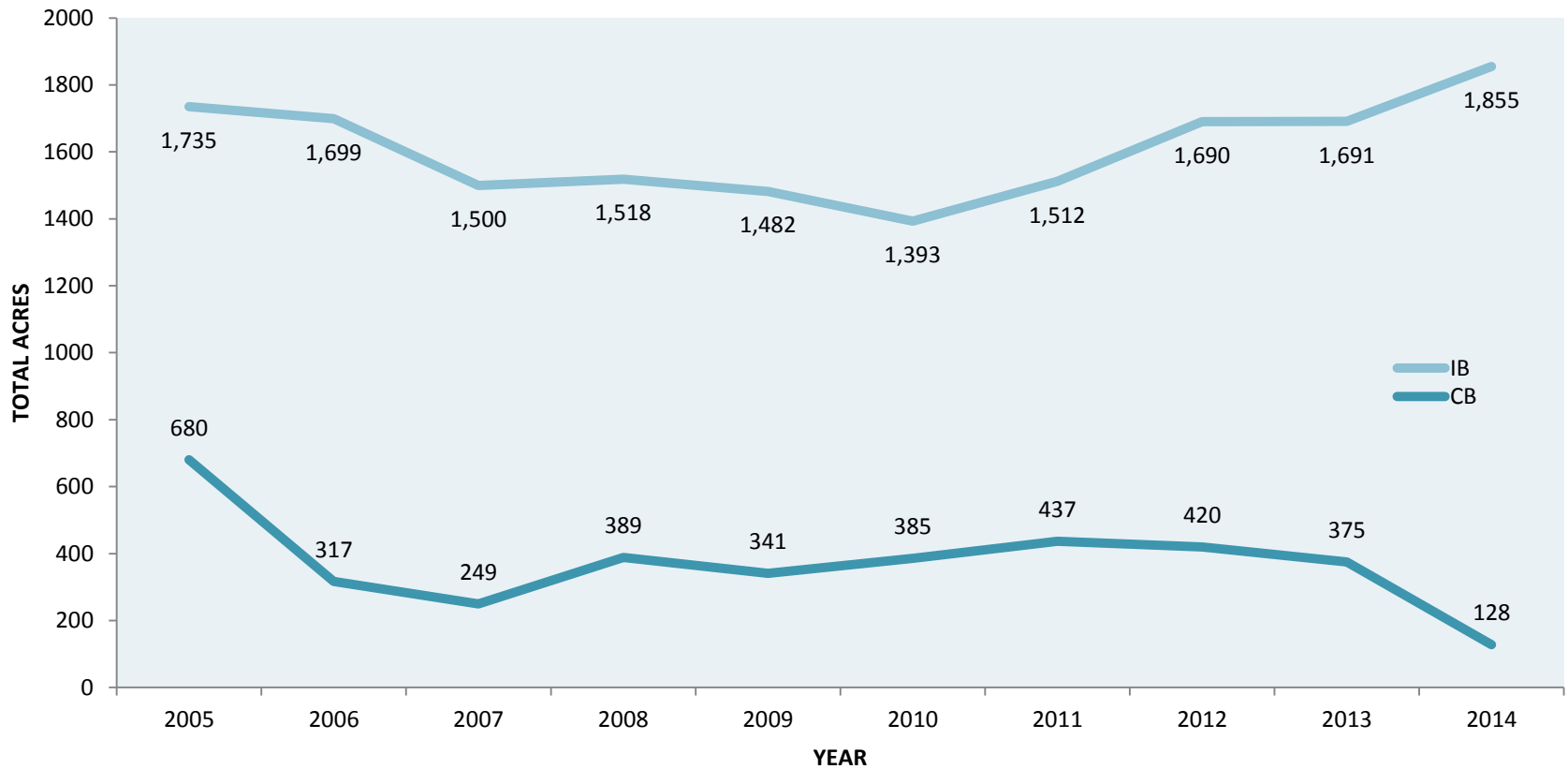
# Grapevine Registration and Certification Program Overview

- For 2014, the program had:
  - 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 and to hear their concerns
- On October 23, 2014, CDFA received a written request to hold public meetings to review and update the regulations and begin the rulemaking process

# Primary issues and concerns brought up by industry

- 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 concerns

# CDFA Response

- On December 18, 2014, CDFA held a public scoping meeting in Sacramento to outline these concerns and receive comments on the regulations
- CDFA has scheduled regional meetings to reach stakeholders in different parts of the state
- CDFA has established a working group with subject matter experts and industry representatives to discuss specific issues and suggested changes in more detail
- With the public comments and recommendations from the working group, CDFA will develop a rulemaking package(s) to update the regulations

# Overview of the Program and Regulations

# Current Disease Testing Requirements for 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:<br><i>Chenopodium sp.</i><br><i>Cucumis sativa</i><br><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<br>or PCR to detect GVA   | Kober Stem 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

# 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 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

# Testing & Inspection

## Suggested Changes Received by CDFA

- Add Red Blotch to list of diseases and disease agents of concern, required tests for candidate foundation materials, and/or periodic testing of foundation/increase vines
- Increase frequency of periodic testing and/or inspection of foundation/increase vines
- Provide more specific standards for sampling protocols in regulation
- Provide for method for CDFA to administratively add/remove disease agents and testing requirements (rather than formal rulemaking)

# Working Group Recommendation For Proposed Rulemaking

- At their meeting on July 21, 2015 the Grapevine Regulations Working Group recommended that CDFA pursue rulemaking to add Red Blotch (GRBaV) to:
  - the list of diseases and disease agents of concern,
  - the required tests for candidate foundation materials, and
  - the periodic tests for foundation and increase vines

# Testing & Inspection

## Ongoing Improvements by CDFA

- CDFA is working with FPS scientists to provide additional training to our inspectors on sampling and inspection techniques
- Through an IAB grant, CDFA is working with Dr. Neil McRoberts and his staff to update sampling protocols for all required tests

# 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

# Planting Location & Eligibility

## Suggested Changes Received by CDFA

- Increase distance requirements from non-registered grapevines (or provide for other mitigation methods)
- Not allow topworking on registered source vines
- Adding time restrictions for use of increase blocks (specifically rootstock blocks)

# 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

# Traceability of Stock

## Suggested Changes Received by CDFA

- Labelling or shipping documentation requirements to include propagative sources of certified stock (full chain)
- CDFA publishing list of registered increase blocks

# Suspension or Cancellation of Registration/Certification

- Registration/certification may be suspended or cancelled if:
  - 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



# Suspension and Cancellation

## Suggested Changes Received by CDFA

- Ensure necessary authority for CDFA to perform trace-back and trace-forward of diseased stock
- Set more specific standards for suspending or cancelling certification based on disease finds in a block
- Method to audit notification of recipients of suspended/cancelled stock

Comments or proposals  
regarding the Grapevine  
Registration and Certification  
Program regulations

# CDFA Outreach

- An e-mail list has been set up for distributing updates on this process, future meetings, etc.
- Information presented at these meetings will be posted on our website, along with future meeting notices and other updates

- A copy of the regulations and more information on the program can be found at:

[http://www.cdfa.ca.gov/plant/pe/nsc/nursery/  
grapevine.html](http://www.cdfa.ca.gov/plant/pe/nsc/nursery/grapevine.html)

- Written comments may be submitted to:

[joshua.kress@cdfa.ca.gov](mailto:joshua.kress@cdfa.ca.gov)

or

[nurseryservices@cdfa.ca.gov](mailto:nurseryservices@cdfa.ca.gov)

- Written comments may be also submitted to:

Joshua Kress

Nursery, Seed, & Cotton Program

Department of Food & Agriculture

1220 N Street, Room 344

Sacramento, CA 95814

http://www.cdafa.ca.gov/plant/pe/  
nsc/nursery/grapevine.html

The screenshot shows a web browser window displaying the California Department of Food and Agriculture (CDFA) website. The page is titled "PLANT HEALTH & PEST PREVENTION SERVICES" and is specifically for the "GRAPEVINE REGISTRATION & CERTIFICATION PROGRAM". The browser's address bar shows the URL: http://www.cdafa.ca.gov/plant/pe/nsc/nursery/grapevine.html. The website header includes the CDFA logo and navigation tabs for "CDFA Home", "Plant Home", "Contact Us", "Meetings", "Publications", "Regulations", "Resources/Services", and "Jobs". A search bar is located in the top right corner. The main content area features a breadcrumb trail: "CDFA Home > Plant Health > Pest Exclusion > NSC > Nursery Services > Grapevine R&C". The title "GRAPEVINE REGISTRATION & CERTIFICATION PROGRAM" is prominently displayed. Below the title, a paragraph explains that the program is voluntary and provides for the testing of source vines for significant grape pathogens, such as Grapevine Fanleaf Virus, Tomato Ringspot Virus, and Grapevine Leafroll viruses. Registered sources and certified nursery stock are then inspected by CDFA staff and maintained by the participant. The page includes a "CONTACT US" section with the address: 1220 N Street, Room 344, Sacramento, CA 95814, and contact information: Phone: (916) 654-0435, Fax: (916) 651-1207, Email: nurseryservices@cdafa.ca.gov. There is also a link to the "Nursery Services Staff List (PDF)". A "SIGN-UP FOR UPDATES" section offers a "Grapevine Registration & Certification Email Notification" service. The "PEST EXCLUSION" section includes links for "PE Home", "Exterior Program", and "Interior Program". The "NSC PROGRAM LINKS" section includes a "Home" link. The page is displayed at 100% zoom.

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## GRAPEVINE REGISTRATION & CERTIFICATION PROGRAM

The Grapevine Registration & Certification Program is a voluntary program that provides for the testing of source vines for significant grape pathogens, such as Grapevine Fanleaf Virus, Tomato Ringspot Virus, and Grapevine Leafroll viruses. Registered sources and certified nursery stock are then inspected by CDFA staff and maintained by the participant in a manner to protect them from exposure to regulated diseases.

General Program Updates


- Grapevine R&C Regulations (PDF)
- Grapevine R&C Application (PDF)
- California Nursery Stock Registration and/or Certification Program Agreement (PDF)
- FPS Grapes Homepage
- Fruit Tree, Nut Tree, & Grapevine Improvement Advisory Board Homepage

**CONTACT US**

**Nursery, Seed, & Cotton Program**  
1220 N Street, Room 344  
Sacramento, CA 95814  
Ph: (916) 654-0435  
Fax: (916) 651-1207  
Email: nurseryservices@cdafa.ca.gov

[Nursery Services Staff List \(PDF\)](#)

**SIGN-UP FOR UPDATES**

 **Grapevine Registration & Certification Email Notification**

**PEST EXCLUSION**

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**NSC PROGRAM LINKS**

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100%

# Thank you

Joshua Kress

(916) 654-0435

[joshua.kress@cdfa.ca.gov](mailto:joshua.kress@cdfa.ca.gov)

[www.cdfa.ca.gov/plant/pe/nsc](http://www.cdfa.ca.gov/plant/pe/nsc)