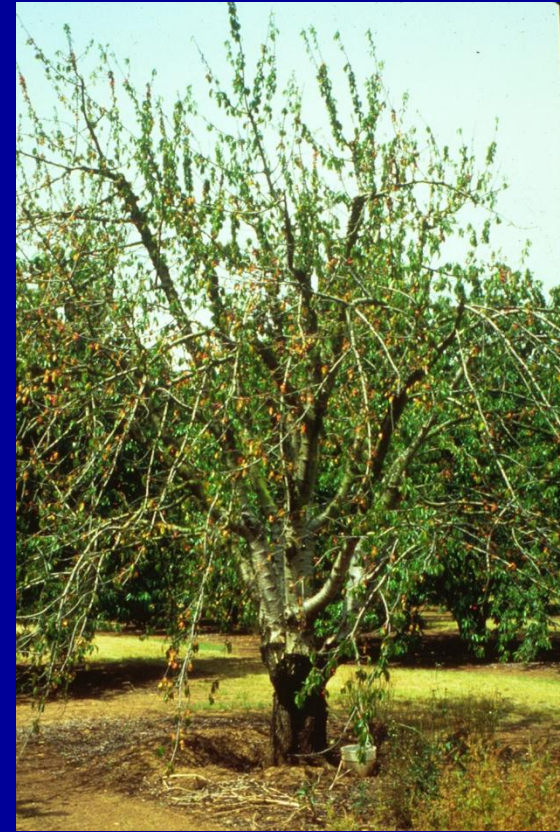


Cherry Buckskin Disease

- Survey since 1987
- Found in 2002
- Spread by leafhoppers
 - Infection in Summer & Fall
- Symptoms:
 - Mahaleb Rootstock: rapid decline
 - Other rootstocks: Fruit doesn't ripen



2002

Balfour Rd

Ford St
Nunn St
Guthrie St
Lorenwood Blvd

Walnut Blvd

0
2

Eureka Ave

Payne Ave

Concord Ave

Marsh Creek Rd

Sellers Ave



6775 ft

2003

Balfour Rd

Ford St
Nunn St
Guthrie St
Lorenwood Blvd

02
03

Eureka Ave

03

Payne Ave

Walnut Blvd



2

Concord Ave

Sellers Ave

Marsh Creek Rd

6775 ft

2004

Balfour Rd

Ford St
Nunn St
Guthrie St
Lorenwood Blvd

0
4

~~02
03
04~~

Eureka Ave

~~2~~

03
04

Payne Ave

Walnut Blvd

Concord Ave

Sellers Ave

Marsh Creek Rd

6775 ft

2005

Balfour Rd

Ford St
Munn St
Guthrie St
Brentwood Blvd

04
05

~~02
03
04~~

0
5

0
5

~~2~~

03
04
05

Walnut Blvd

Euphrates Ave
Hickory Ave

Concord Ave

~~0~~

Marsh Creek Rd

Sellers Ave

6775 ft

2007

Balfour Rd

Ford St
Munn St
Guthrie St
Brentwood Blvd

04
05
07

~~02
03
04~~

0
5

0
5

~~0
2~~

Walnut Blvd
Euphrates Ave

03
04
05
07

Concord Ave

~~0
3~~

Marsh Creek Rd

Sellers Ave

0
7

0
7

6775 ft

2008

Balfour Rd

Ford St
Nunn St
Guthrie St
Lorenwood Blvd

04
05
07
08



0
5

0
5



Walnut Blvd

Eureka Ave

Concord Ave

Sellers Ave

Marsh Creek Rd

0
7



07
08

6775 ft

2009

Balfour Rd

Ford St
Munn St
Guthrie St
Lorenwood Blvd

04, 05
07, 08
09

~~02
03
04~~

05

05

~~2~~

~~03
04
05
07
08~~

Walnut Blvd

Eureka Ave

Concord Ave

Marsh Creek Rd

Sellers Ave

07

07
08

6775 ft

2010

Balfour Rd

Ford St
Munn St
Guthrie St
Lorenwood Blvd

04, 05
07, 08
09, 10

~~02
03
04~~

0
5

0
5

~~2~~

~~03
04
05
07
08~~

Walnut Blvd

Eureka Ave

Concord Ave

Marsh Creek Rd

Sellers Ave

0
7

07
08

6775 ft

2011

Balfour Rd

Ford St
Munn St
Guthrie St
Lorenwood Blvd

Walnut Blvd

Eureka Ave

Concord Ave

Marsh Creek Rd

Sellers Ave

05

05

04, 05
07, 08
09,
10, 11

02
03
04

2

03
04
05
07
08

07

07
08

6775 ft

2012

Balfour Rd

Ford St
Munn St
Guthrie St
Lorenwood Blvd

04, 05
07, 08
09, 10,
12

0
5

0
5

02
03
04

2

03
04
05
07
08

Eureka Ave

Concord Ave

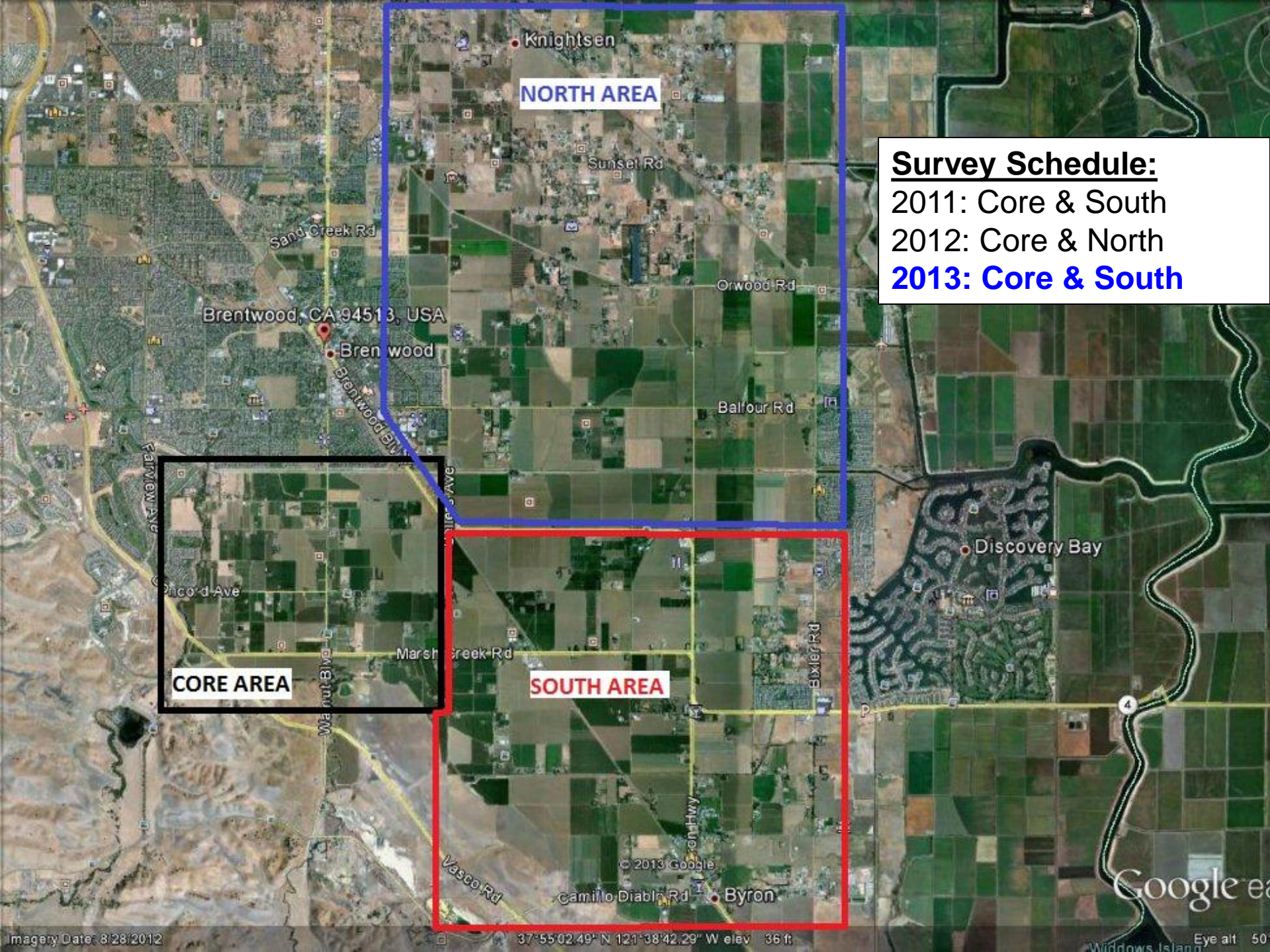
Sellers Ave

Marsh Creek Rd

0
7

07
08

6775 ft



Knightsen

NORTH AREA

Sunset Rd

Sand Creek Rd

Brentwood, CA 94513, USA

Brentwood

Orwood Rd

Balfour Rd

CORE AREA

Concord Ave

Marsh Creek Rd

SOUTH AREA

Discovery Bay

Bixler Rd

Vasco Rd

Camillo Diablo Rd

Byron

Survey Schedule:

2011: Core & South

2012: Core & North

2013: Core & South

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Google e

Cherry Buckskin Survey

- New Developments -

- Lots of new acres!
- Split Survey area:
 - Low risk orchards are only surveyed every other year
- Combined with LBAM survey
- Pre harvest SWD sprays
 - Need REI information before crew can enter
 - Please provide best contact number
 - Will call Monday for all orchards scheduled that week
 - No fruit sampling during survey
 - Picked fruit donations for volunteers?

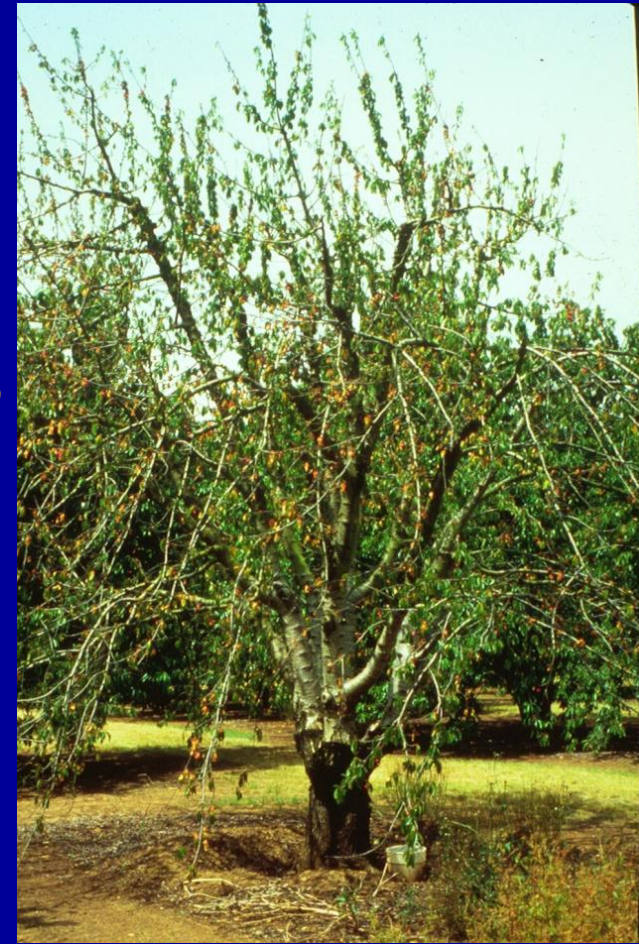
Cherry Buckskin Control

- Stay Vigilant!
- Control Leafhoppers:
 - Dormant spray
 - 3 in season sprays
 - Early July
 - Mid August
 - Early September



Cherry Buckskin Control

- Stay Vigilant!
- Control Leafhoppers
- Rogue out infected trees
 - Surveyors won't see it on Mahaleb
 - Survey isn't perfect



Mahaleb Rootstock

Buckskin Fruit Symptoms:

Mazzard, Colt, Giesla, Stockton Morello rootstocks



FRUIT:

- Lighter
- Smaller
- Pointier
- Shorter stems
- Entire branch

THE LEAVES
LOOK
NORMAL!

Fruit symptoms:

Typically on 1 or more branches, not the entire tree



On Mahaleb Rootstock:

Rapid decline late summer-fall
The leaves suddenly look yellow



On Mahaleb Rootstock:

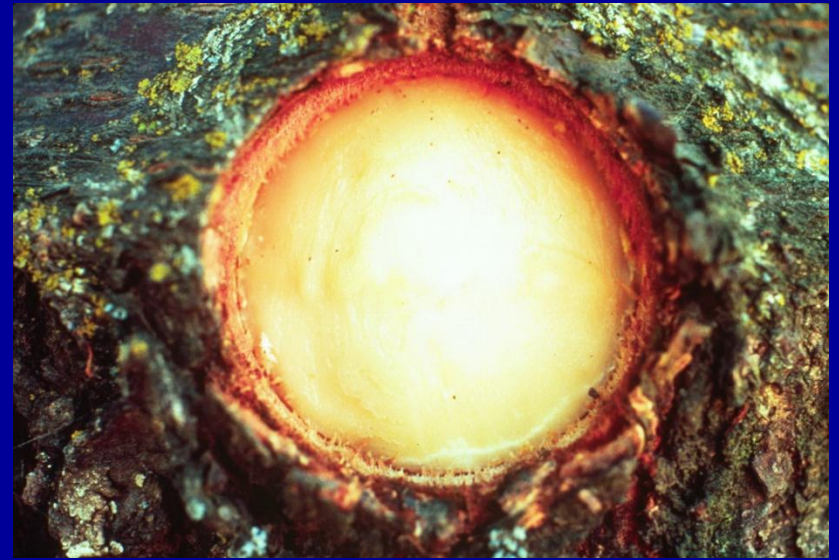


- Yellow, wilting and leaf loss within in a few months
- Symptoms may be visible the following spring-summer
- Looks very similar to gopher damage or root rot
- Rarely have any fruit symptoms
- **WE ARE NOT LOOKING FOR THESE SYMPTOMS DURING THE SURVEY**

On Mahaleb: zippering at graft union



BS zippering



Healthy graft union

Cherry Buckskin Control

- Stay Vigilant!
- Control Leafhoppers
- Rogue out infected trees
- Control WEED hosts on the orchard floor
 - they can carry the disease and keep it in your orchard

Dandelion



Curly dock



Bur clover



cover crop clovers, too!



Cherry Buckskin Control

- Stay Vigilant!
- Control Leafhoppers
- Rogue out infected trees
- Control WEED hosts on the orchard floor
- Remove/treat ornamental LH hosts
 - They host the leaf hopper (not the disease)
 - Known cherry leaf hopper hosts include:
Boxwood, privet, myrtle, hawthorn, pyracantha, cotoneaster, ceanothus, viburnum, crab apple, spirea, lilac

