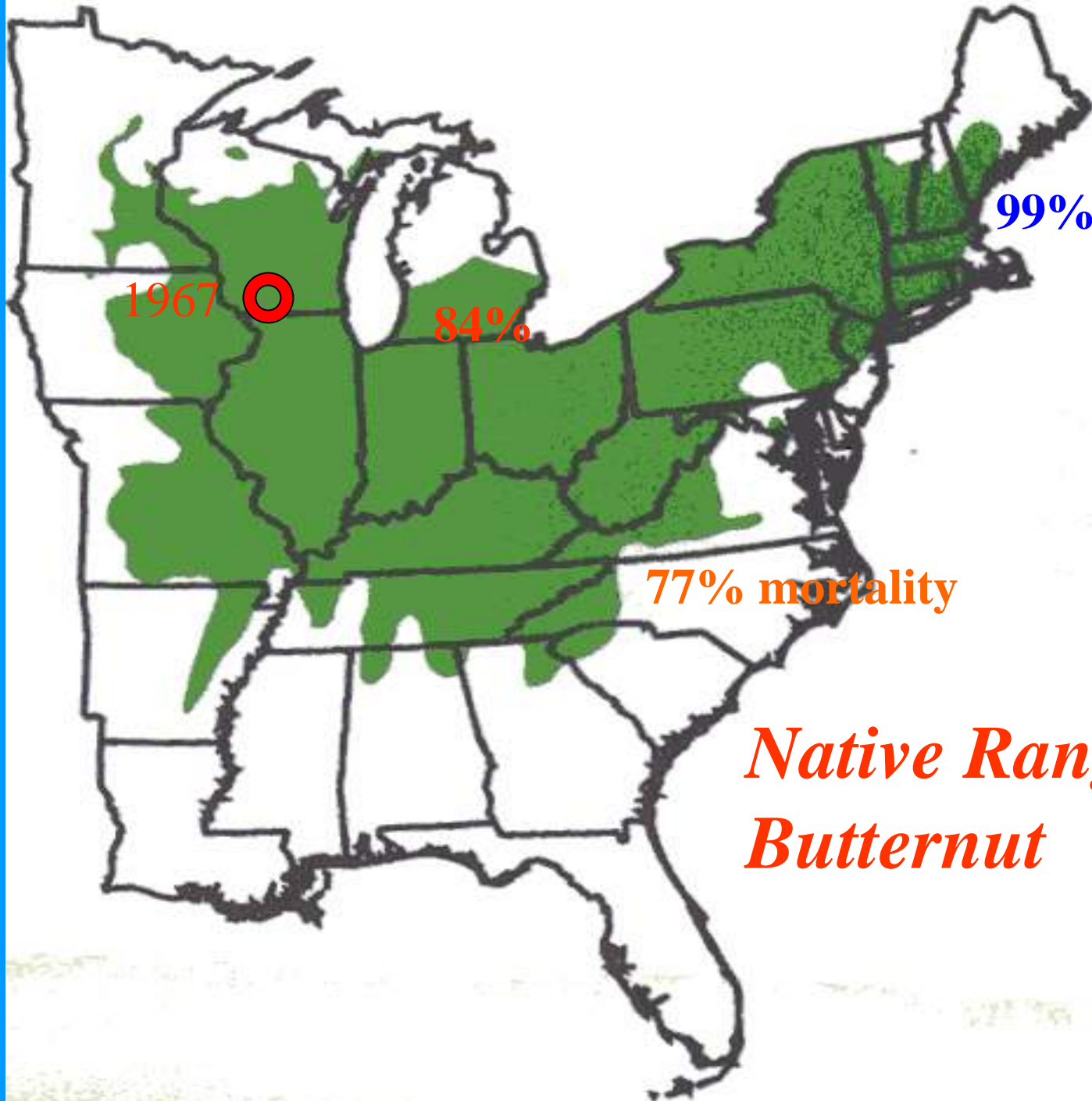




Butternut Canker Disease
Kyle Lombard
NH Division of Forests and Lands
December 2005



99% infected

1967

84%

77% mortality

*Native Range of
Butternut*

STATE CHAMPION
BUTTERNUT TREE

HEIGHT - 67'
CIRCUMFERENCE - $\frac{13'}{15''}$
CROWN SPREAD
113'

10 - 24 - 83

421









Disease first
noticed in the
Lakes region in
the late 1960's

Spread east
using a variety
of vectors

By 1997, 98% of
all butternuts we
surveyed
throughout NH
were infected.







Is there any hope? What can we do about the outbreak?

In 1997 the Forest Health Section won a USFS grant to organize an intra-specific tree breeding program to find, archive and produce any resistant butternut genetics that we could find in NH.

- find resistant trees

- collect scions

- Graft to walnut

- Plant orchard

- Pollinate between resistant trees only

- Plant seed produced

- Plant resistant seedlings back in the NH forest Landscape







"SMOKEY'S FRIENDS"



fires...

7
6
5
4
3

18
17
16
15
14
13
12
11
10
9





What's Next?

Continue looking for resistant trees

Continue grafting 50 scions per year when the budget allows it

When orchard trees reach manageable size start cross pollinating

Grow the seed and test for resistance