



University of
Massachusetts
Amherst

Research Update Meeting 2006 - Weed Management Update 2006

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Weed Management Update 2006

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Cranberry IPM Specialist



Projects 2006

- **Dodder survey results**
- **Propagation studies**
- **Mowing studies**
- **Herbicide trials and updates**

Dodder Survey

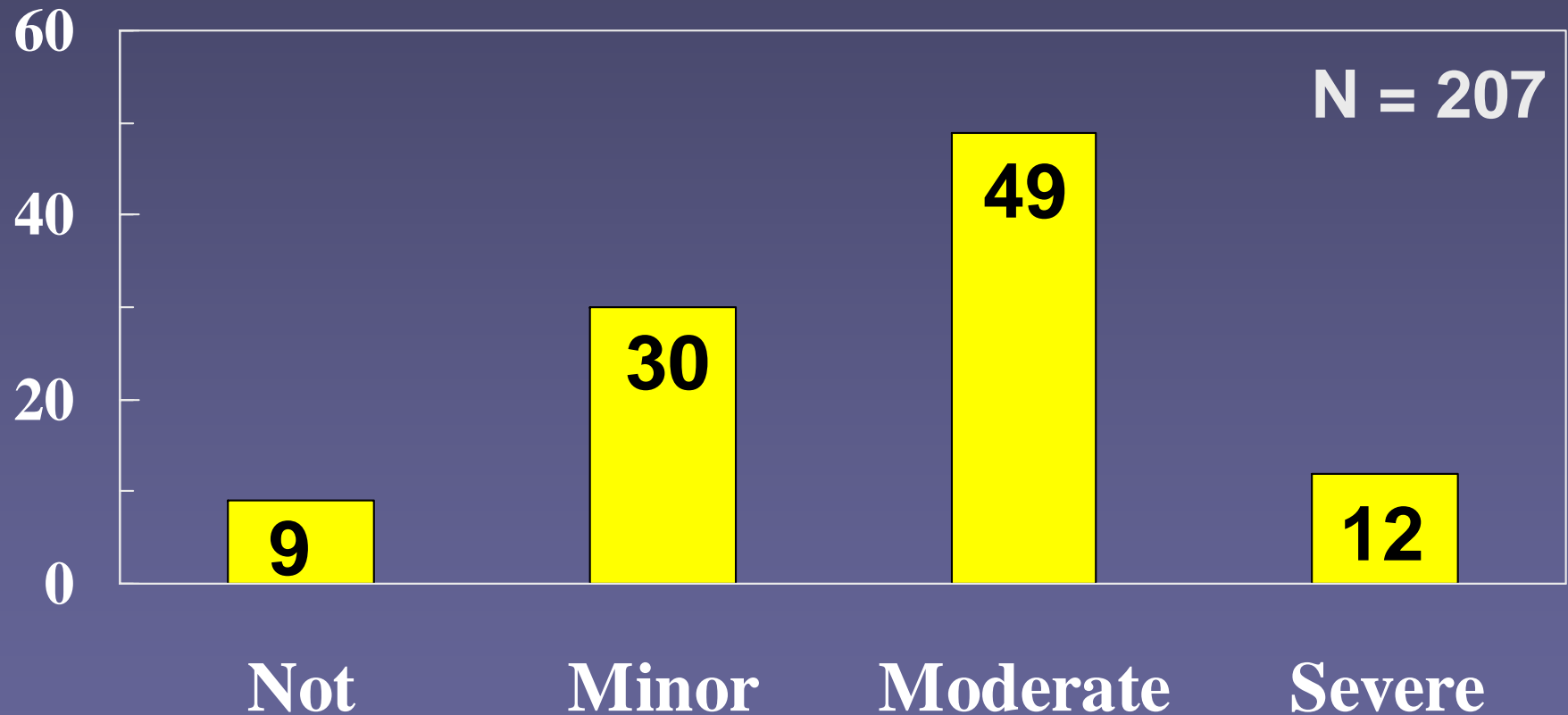
- **EPA Region 1 – Food Quality Protection Act / Strategic Agricultural Initiative Program Grant**
- **January 2005 – December 2006**
- **Develop BMP on short - term flooding to control dodder**

Dodder Survey

- 432 surveys mailed March 2005
- 24 multi - part questions + add comments
- 210 surveys with at least some questions answered
 - 49% return rate

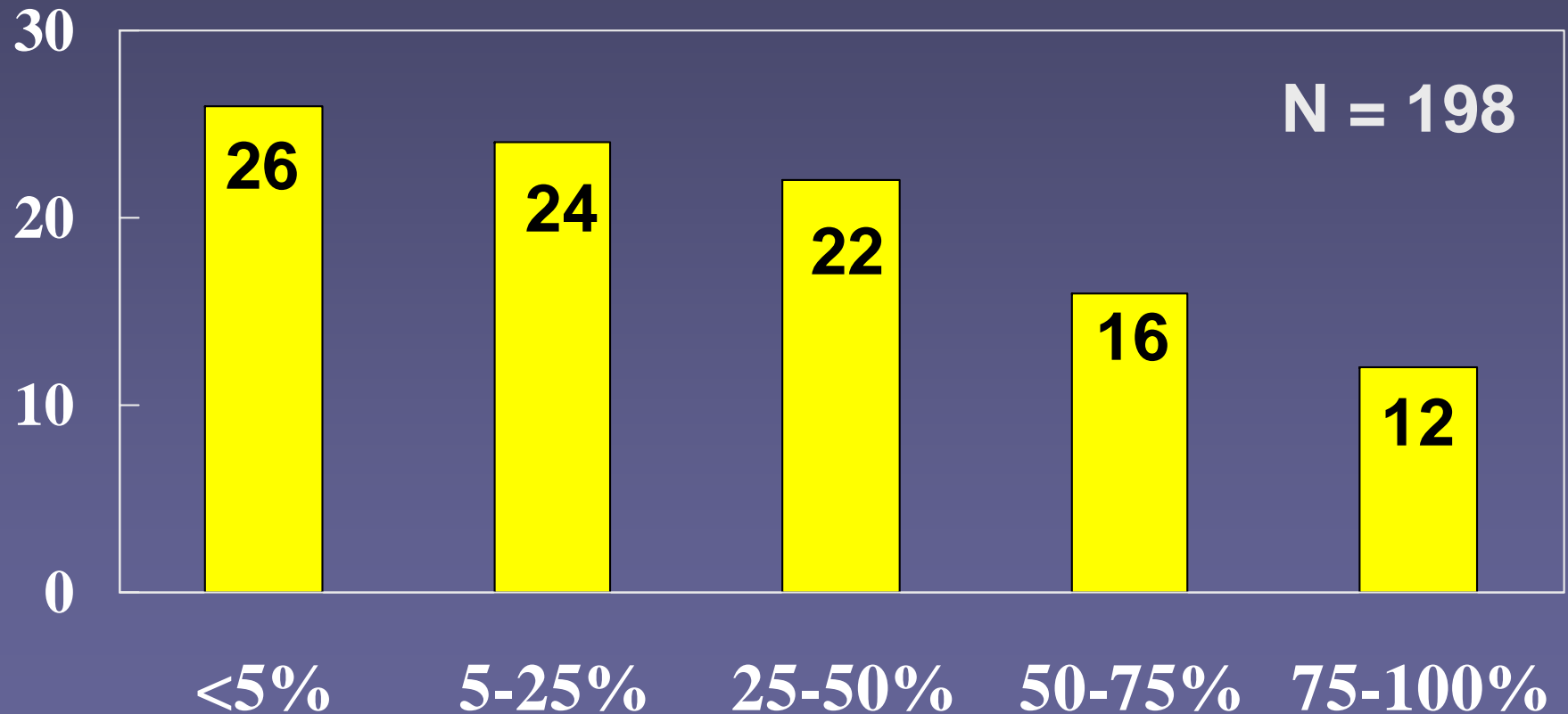
Dodder a problem?

Frequency (%)



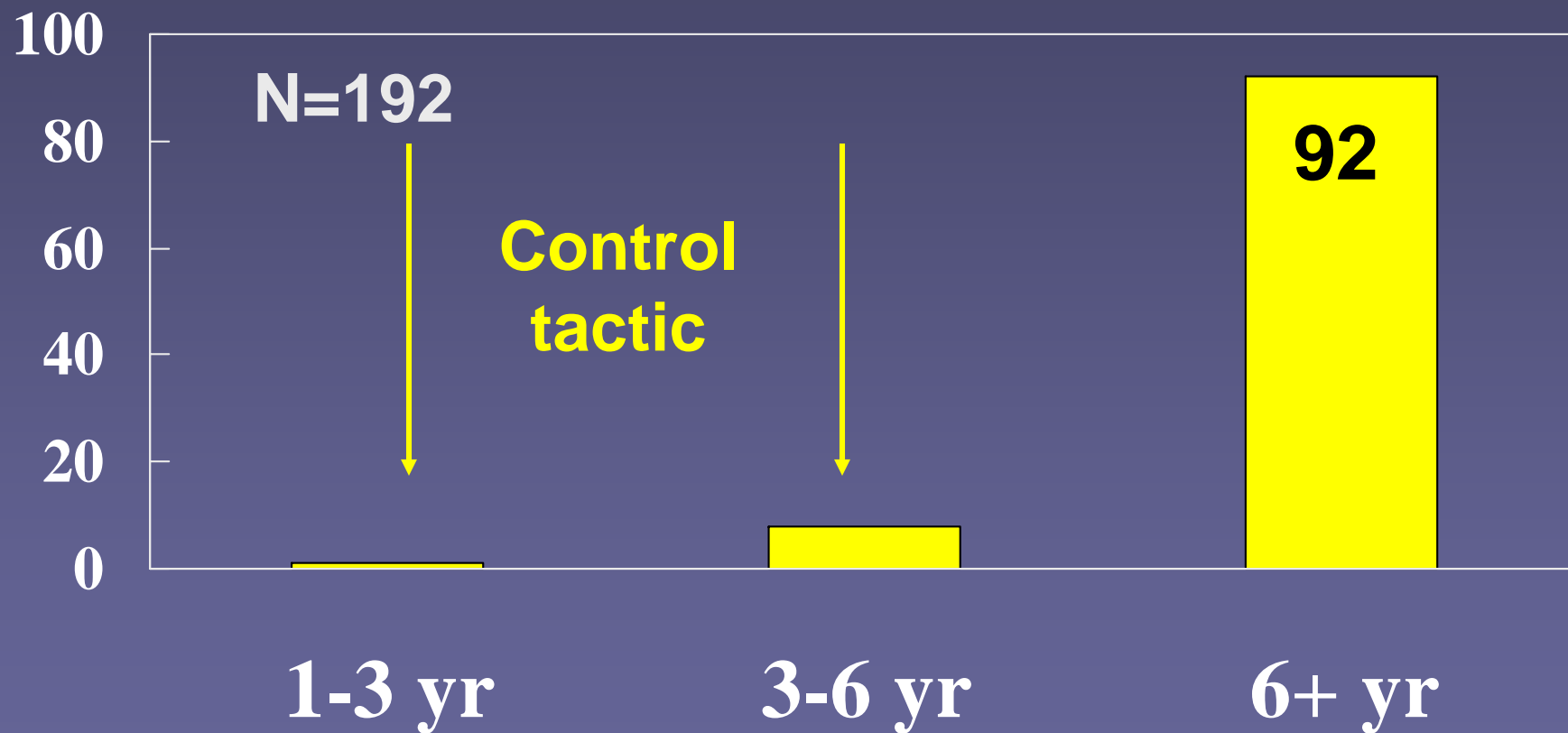
% Acreage infested?

Frequency (%)



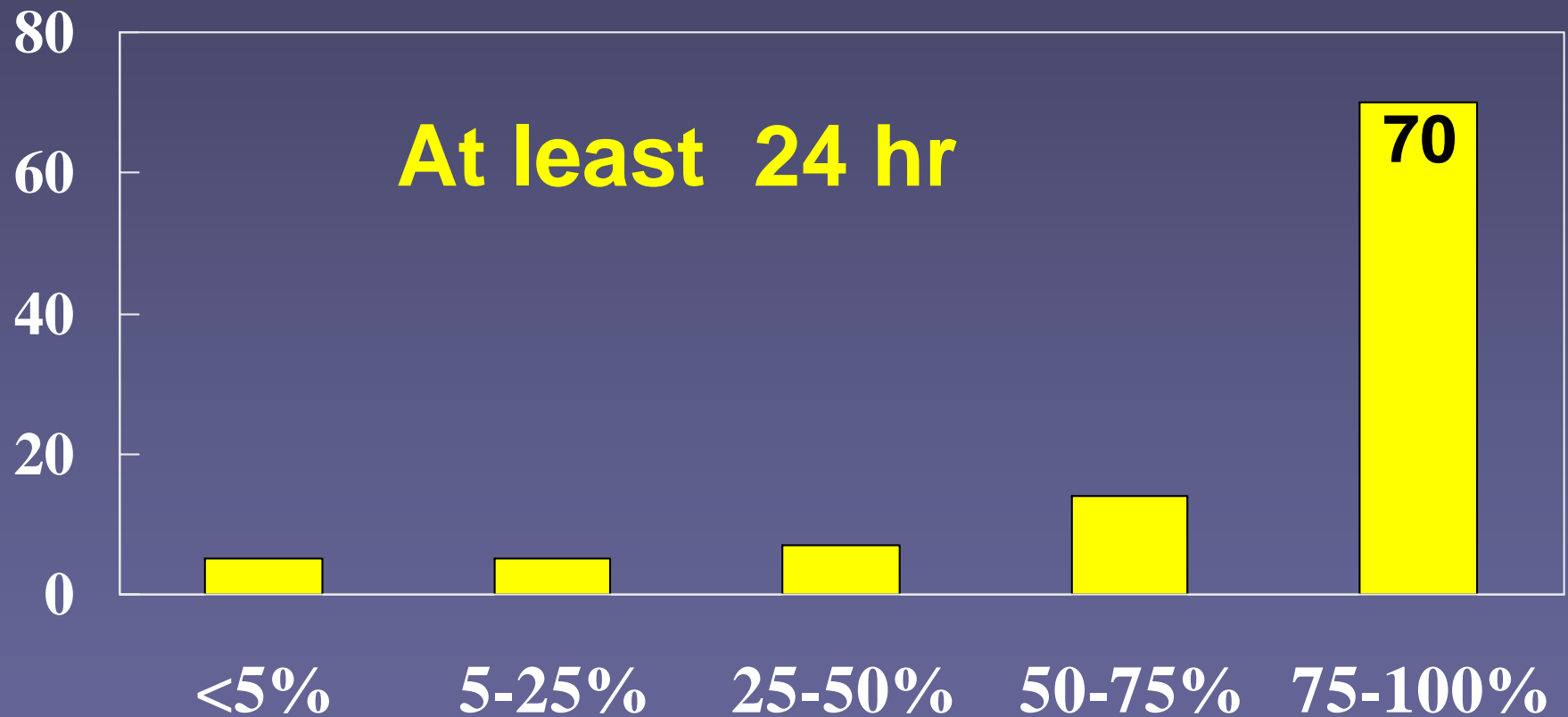
Age worst infestation?

Frequency (%)



Uniformly Flood?

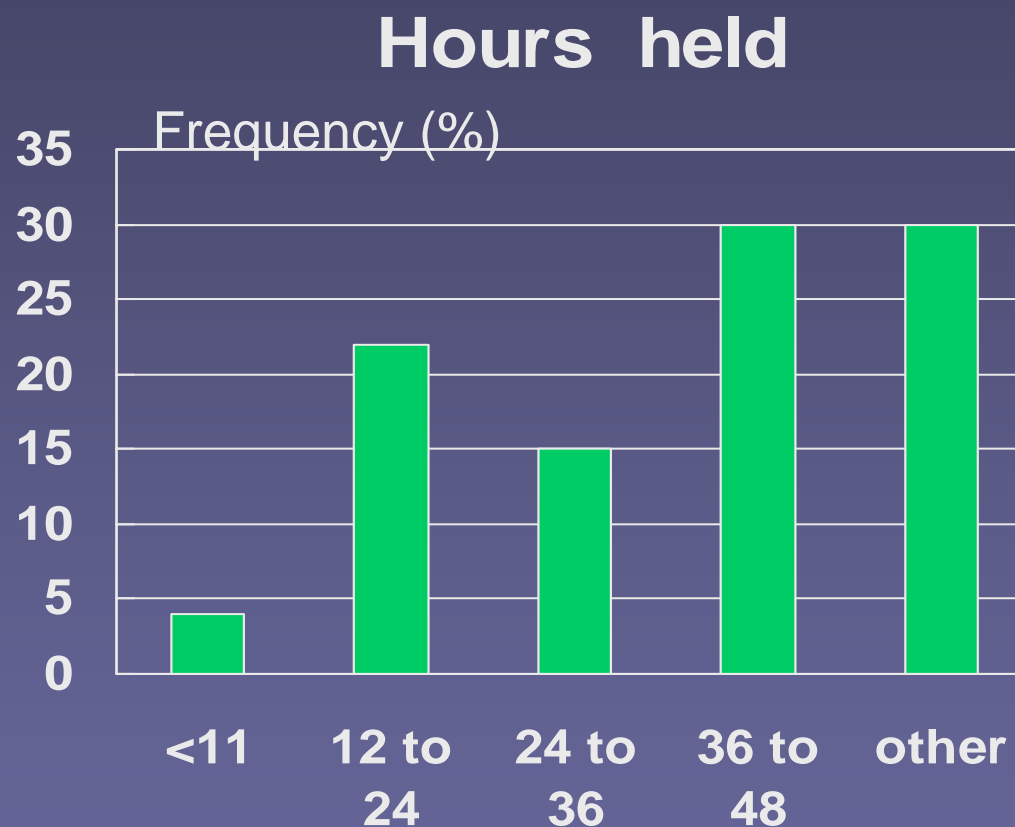
Frequency (%)



N = 197

Flooding for Dodder

- 15% have used flooding for dodder management (N=198)

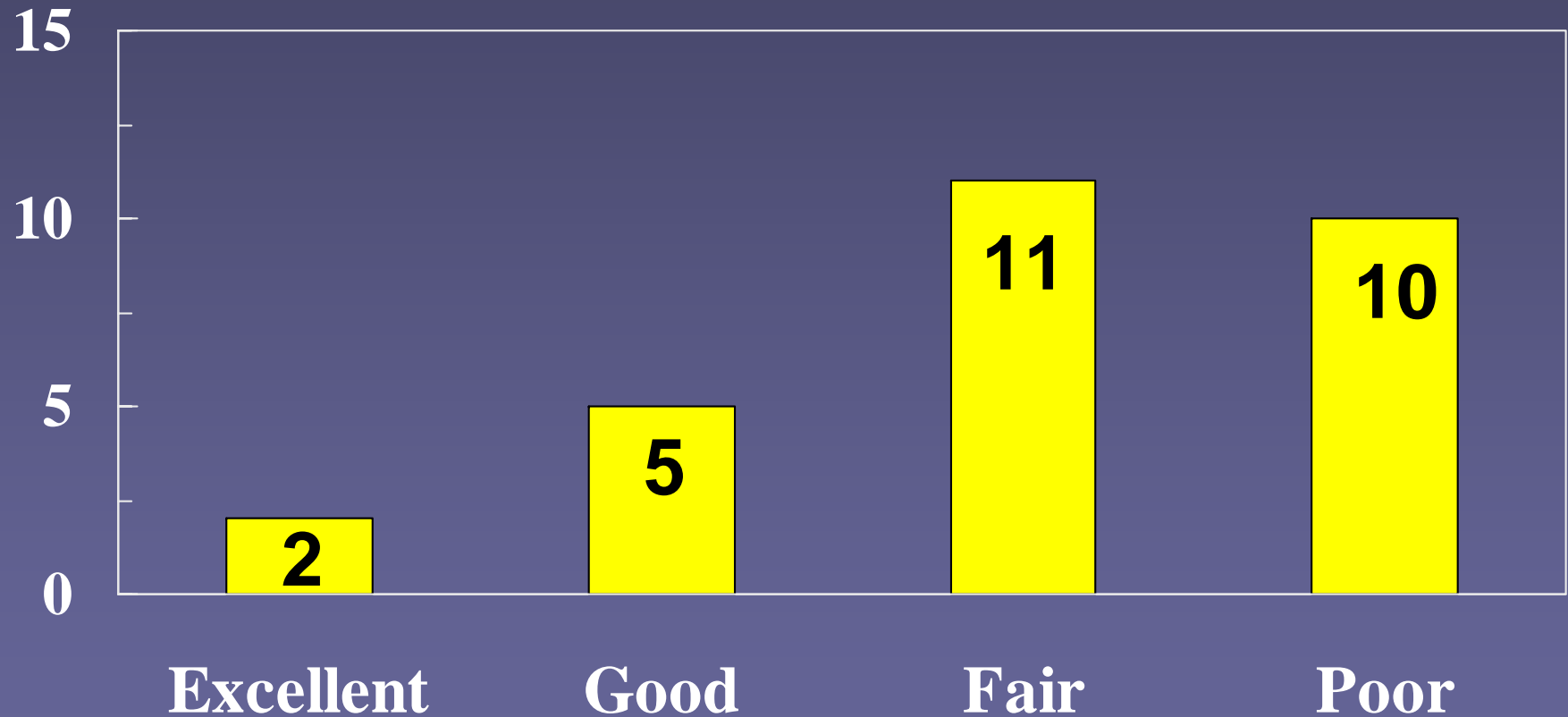


Other = LW, 3 days, 1 week

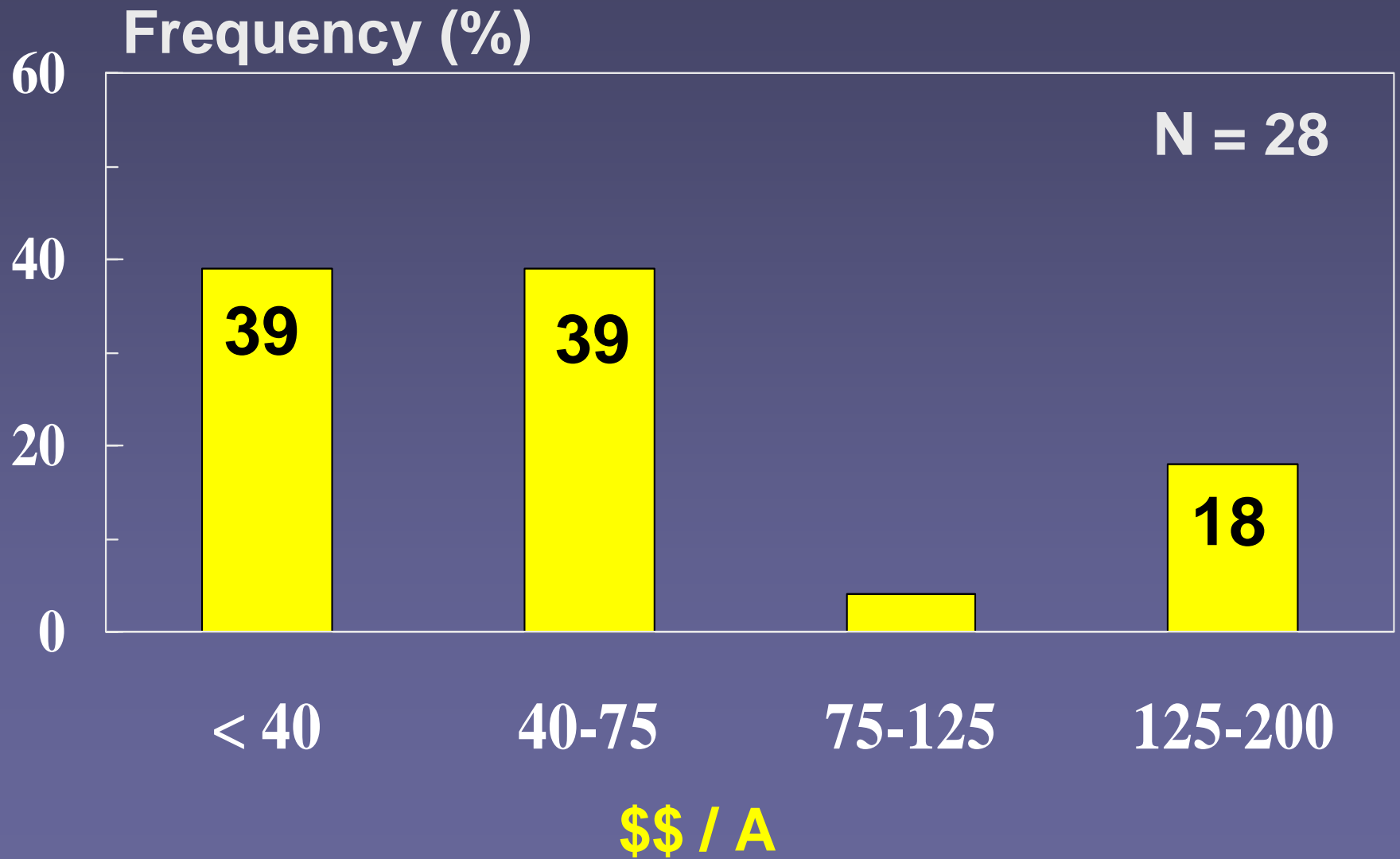
N=27

Flooding Rated

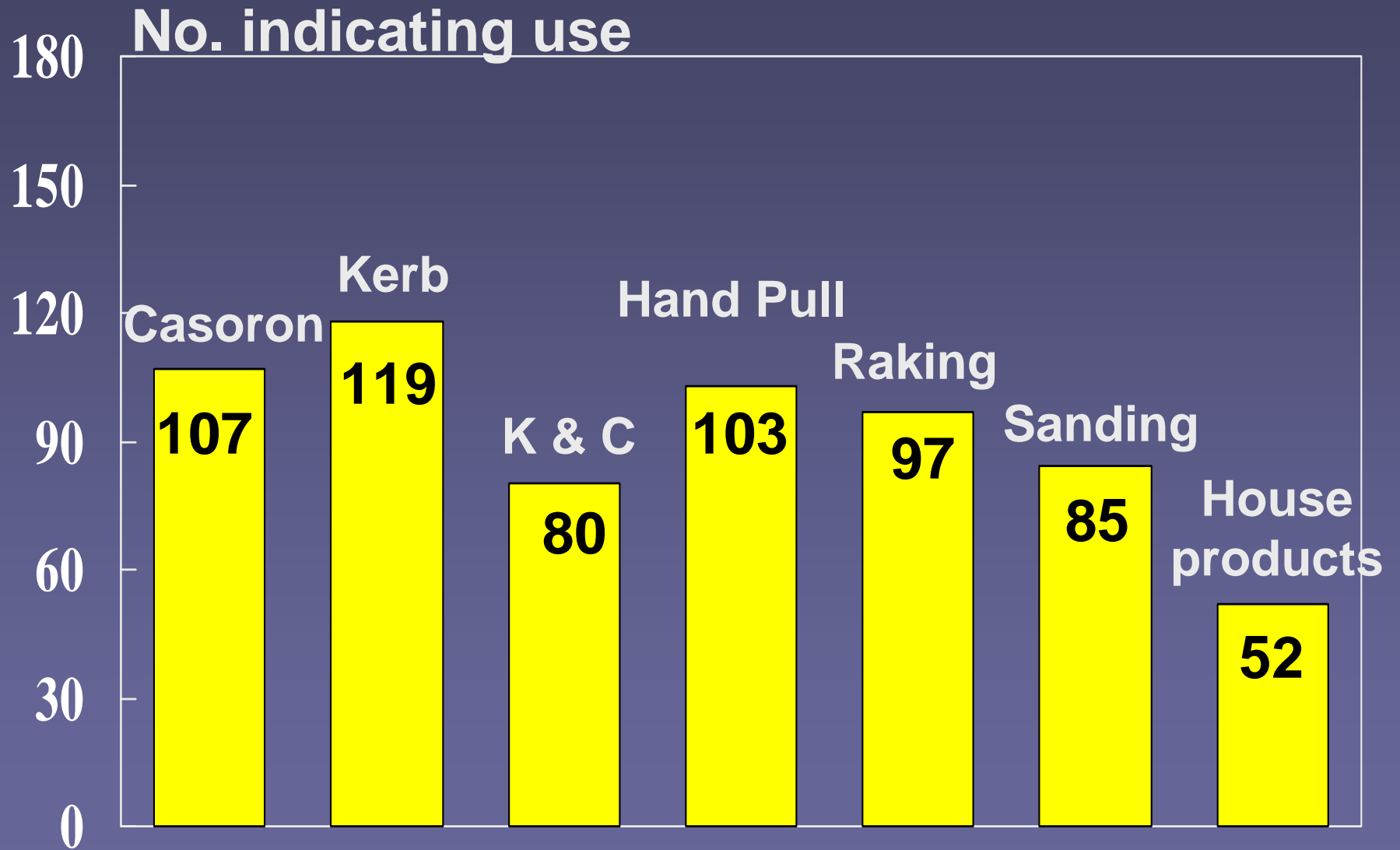
No. responses



Cost of Flooding

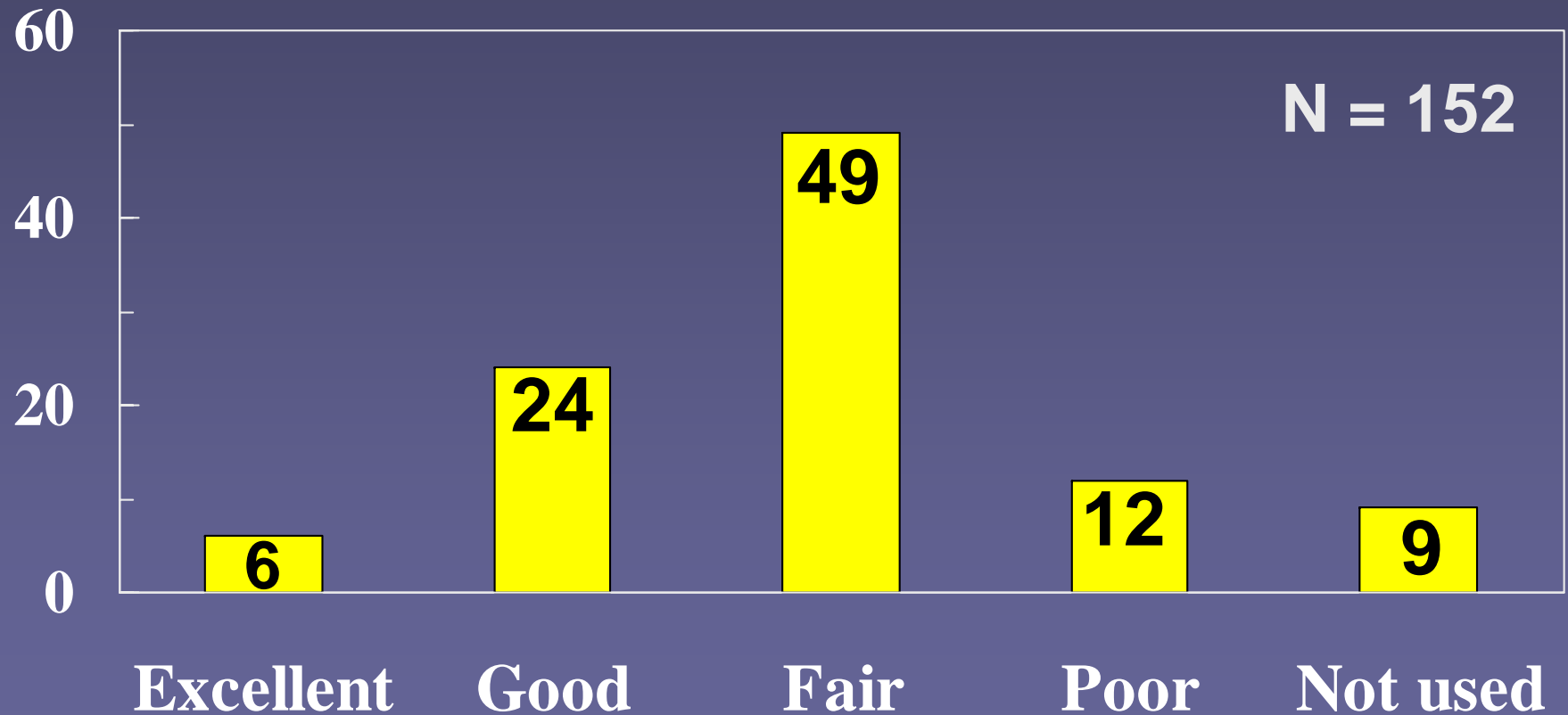


Practices Used



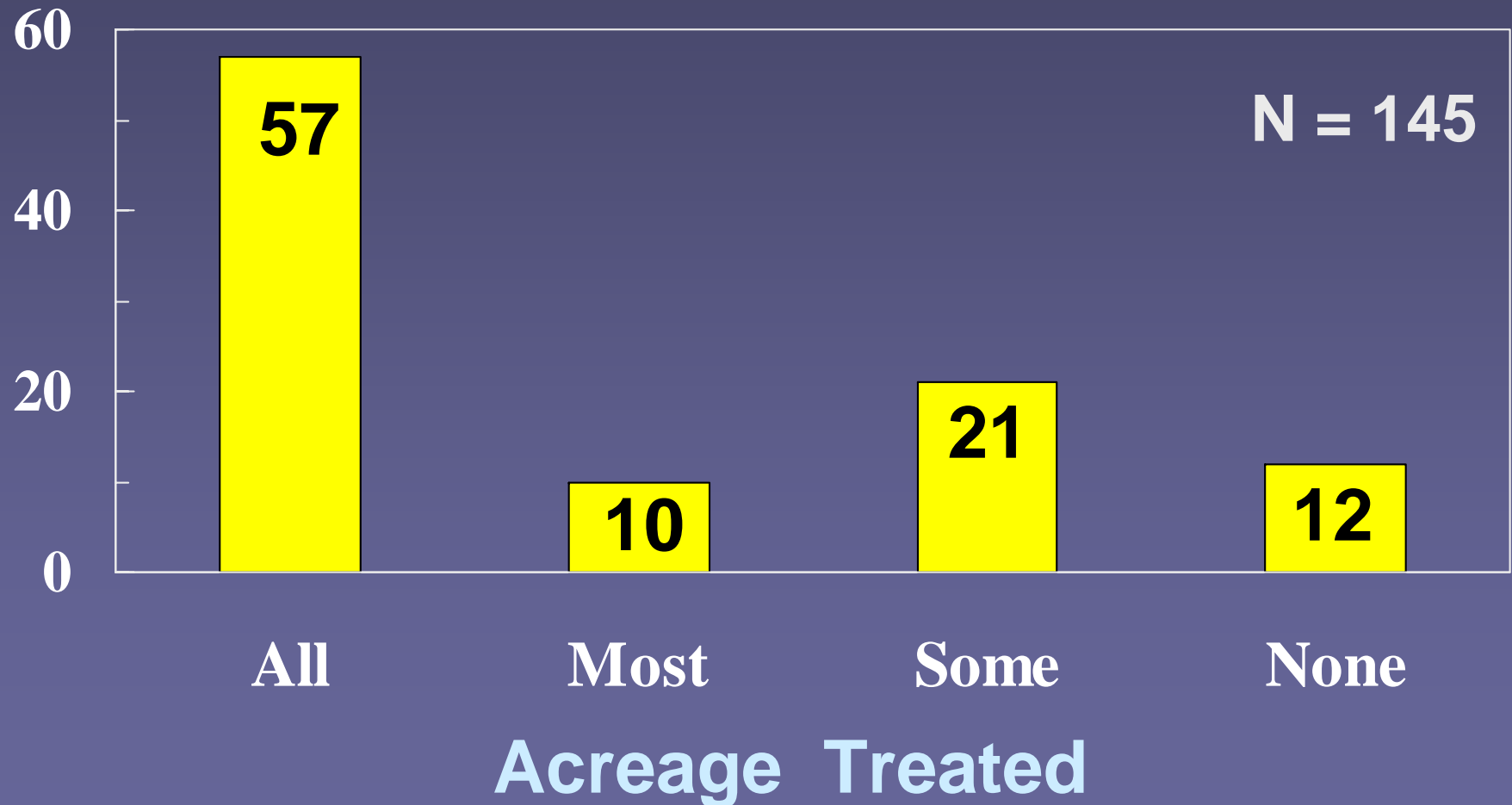
Casoron Rated

Frequency (%)

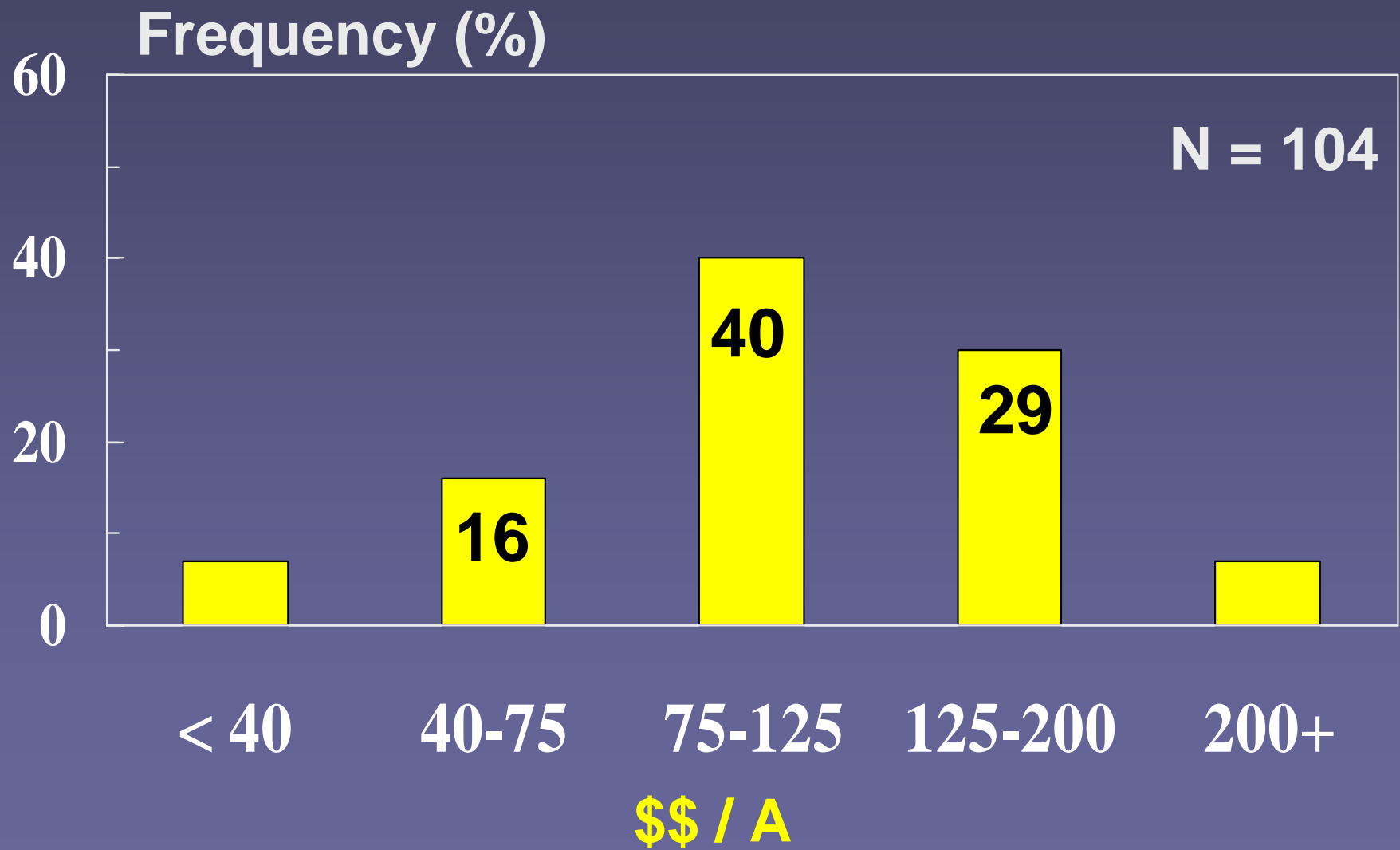


Casoron Acreage

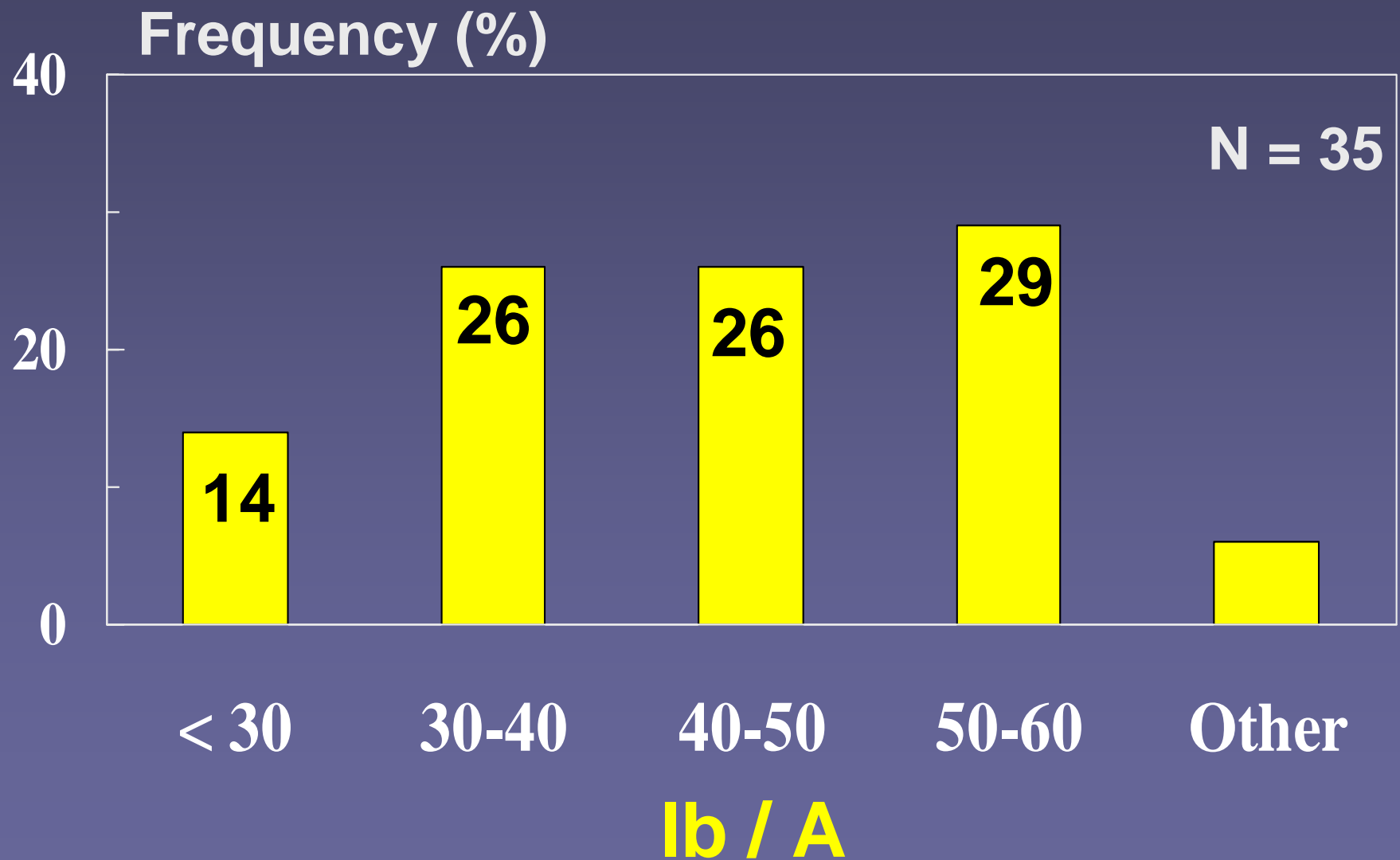
Frequency (%)



Cost of Casoron

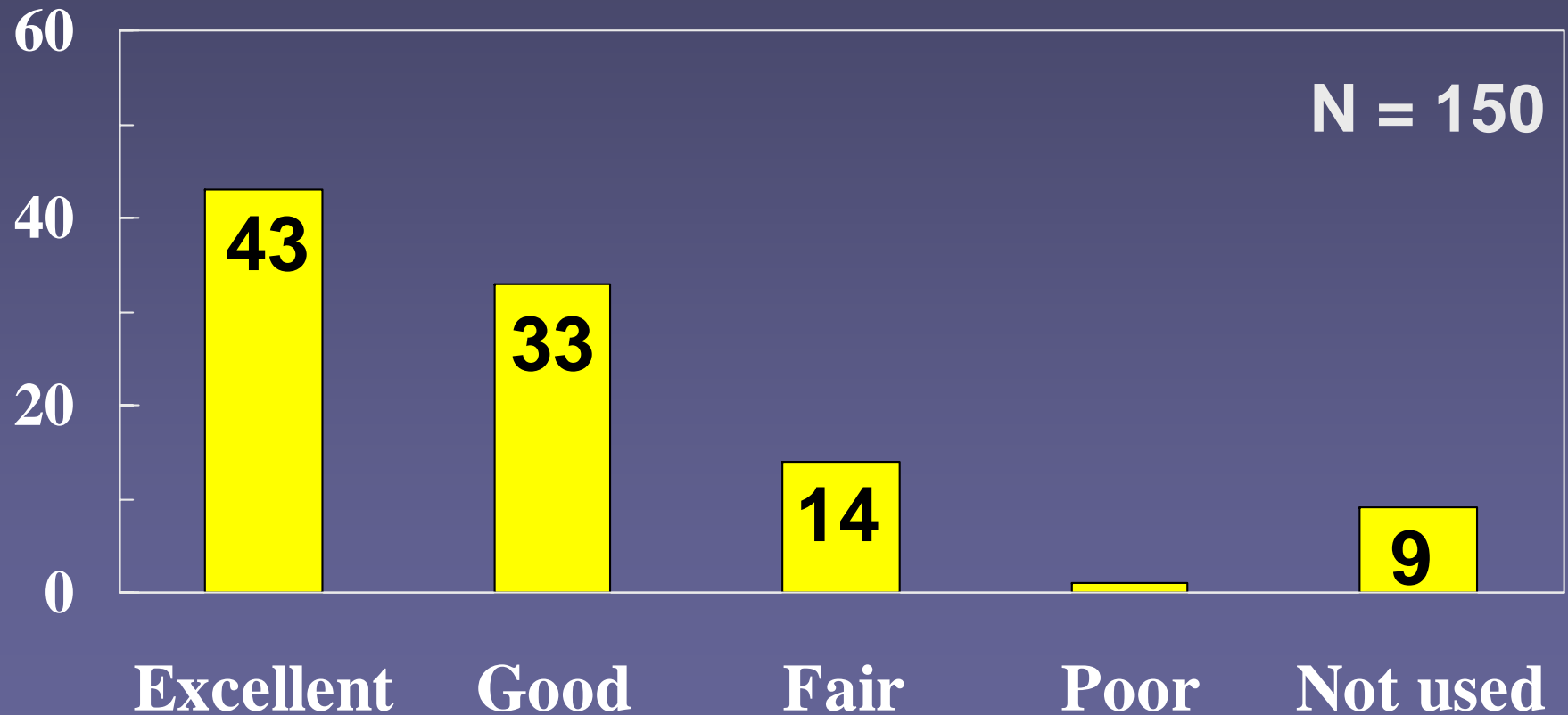


Casoron Rates



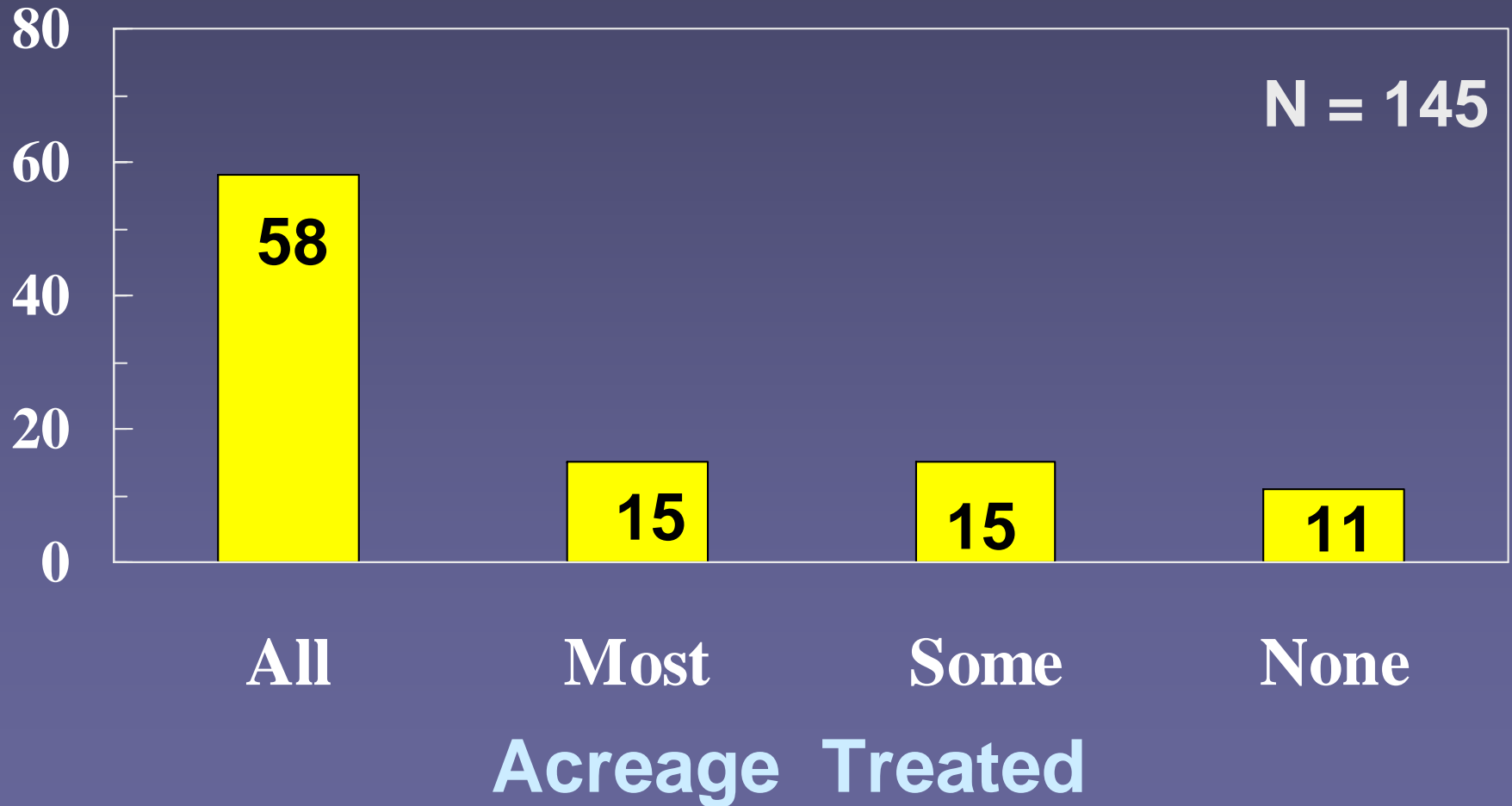
Kerb Rated

Frequency (%)



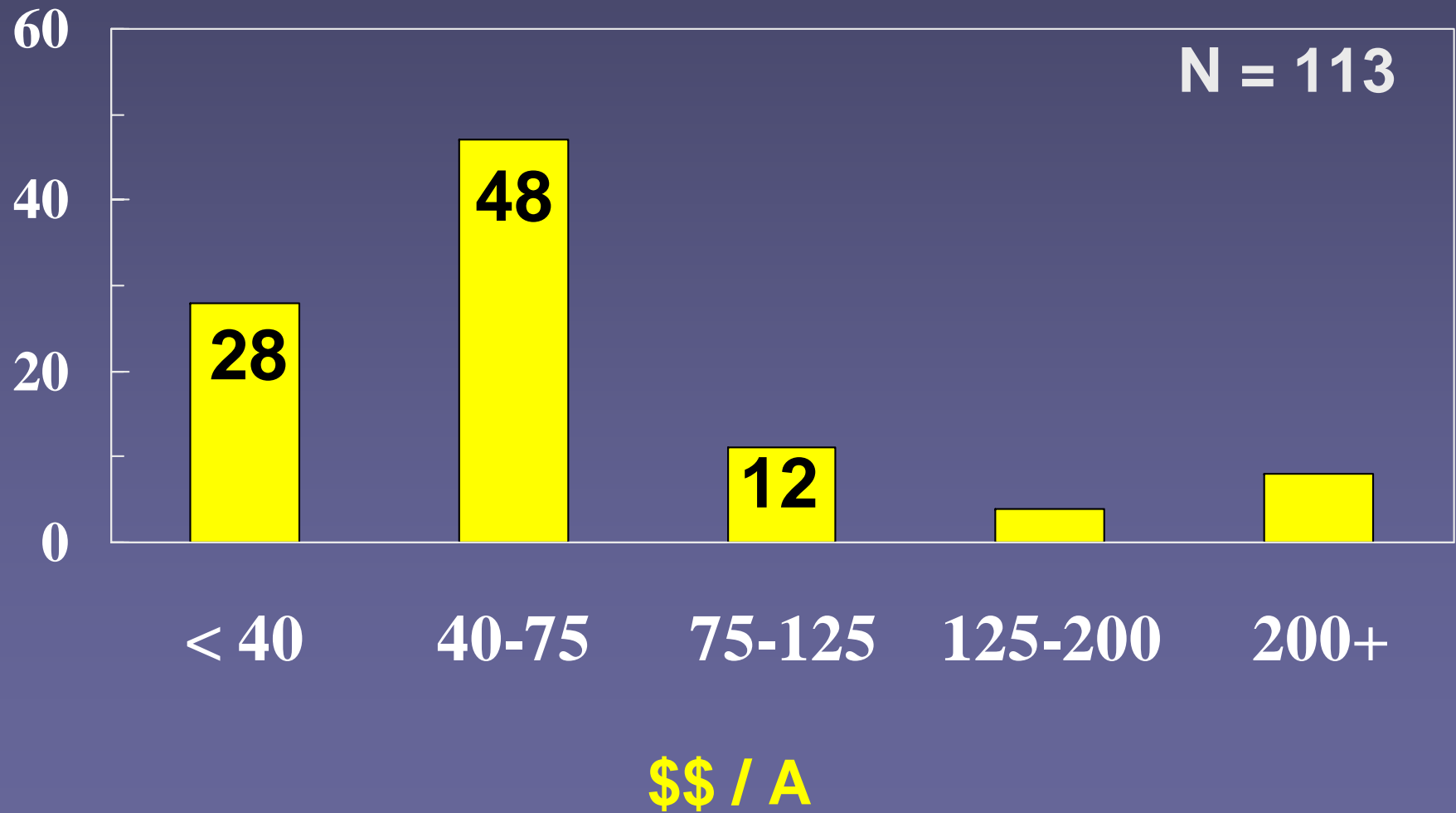
Kerb Acreage Treated

Frequency (%)

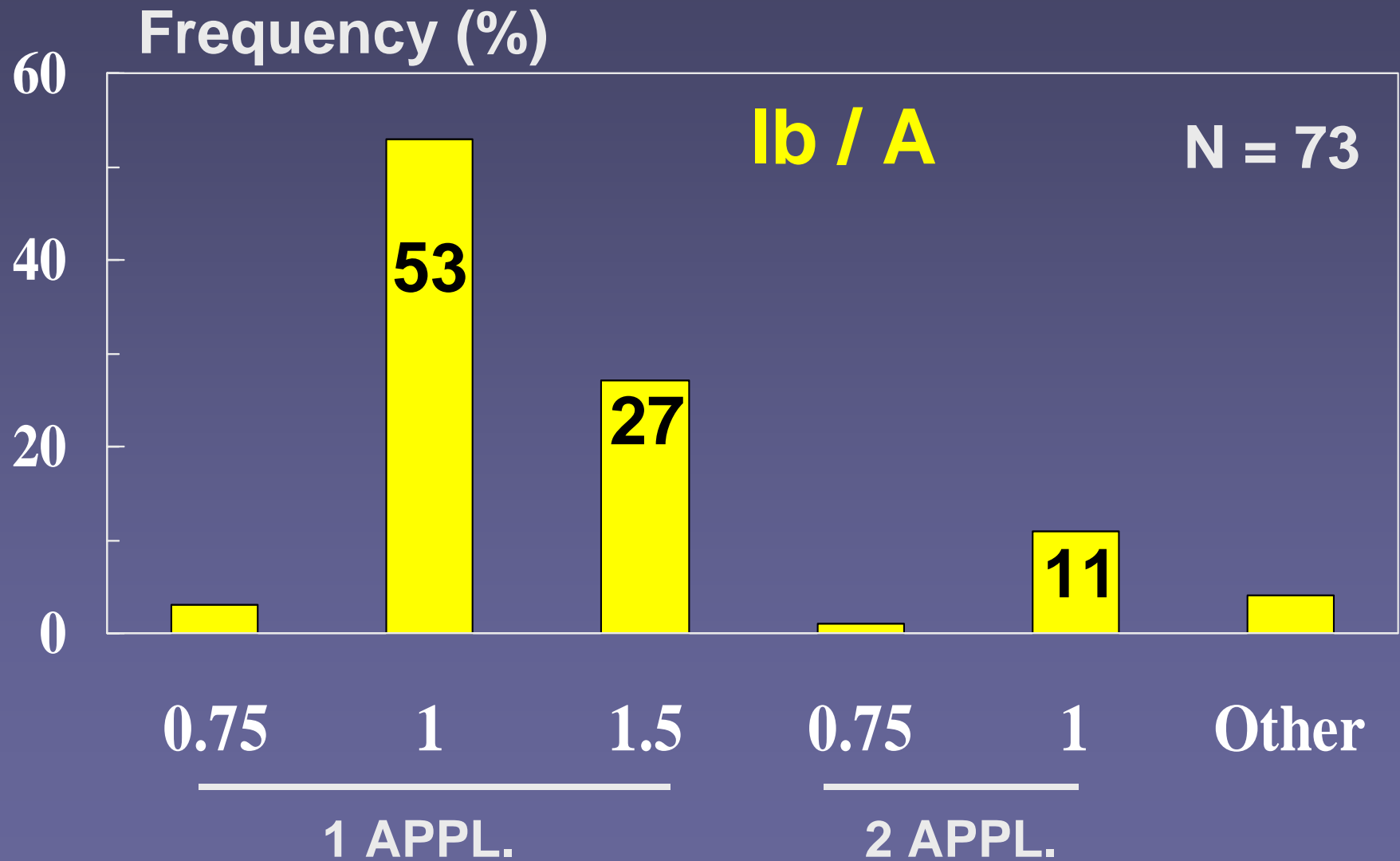


Cost of Kerb (\$ / A)

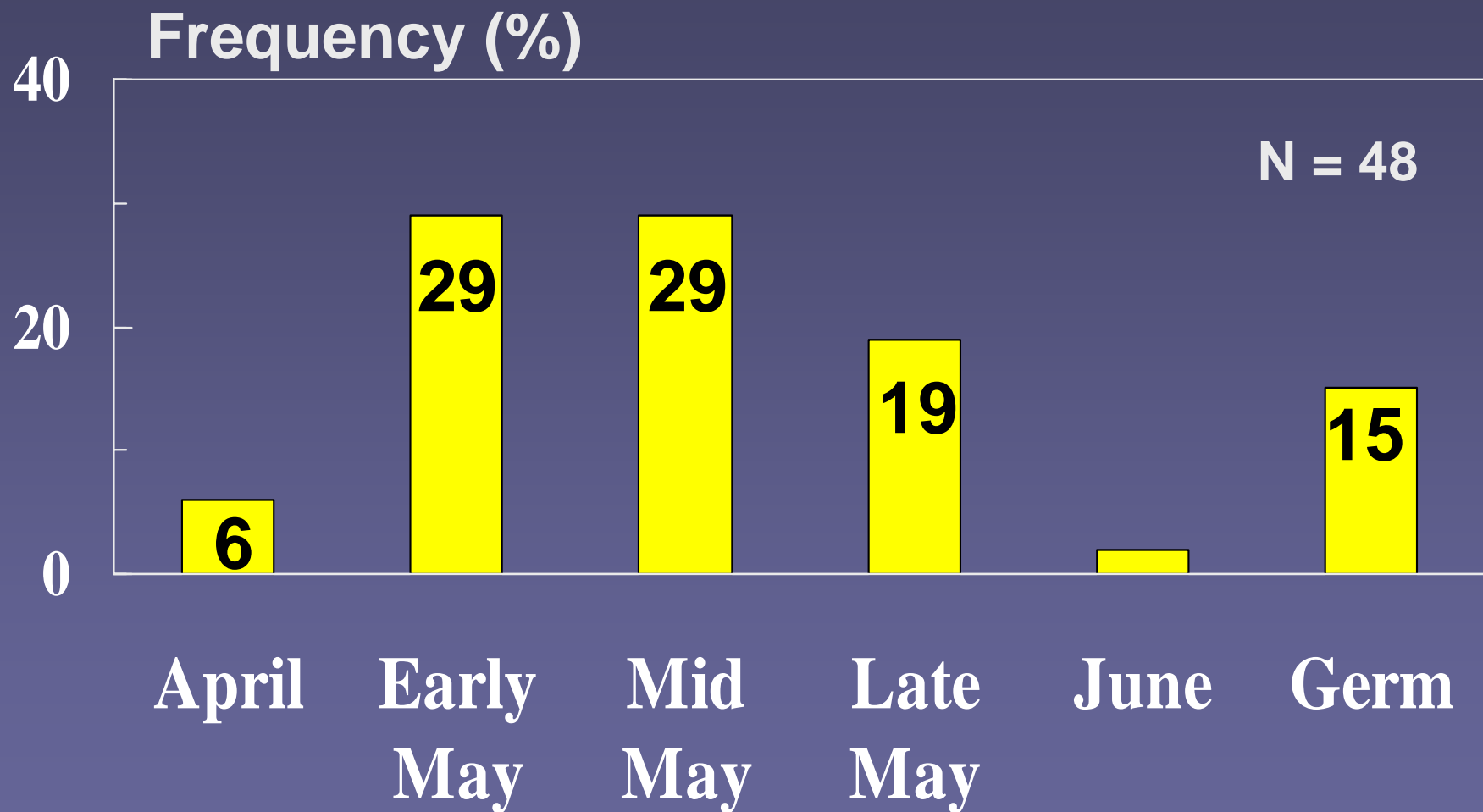
Frequency (%)



Rates of Kerb

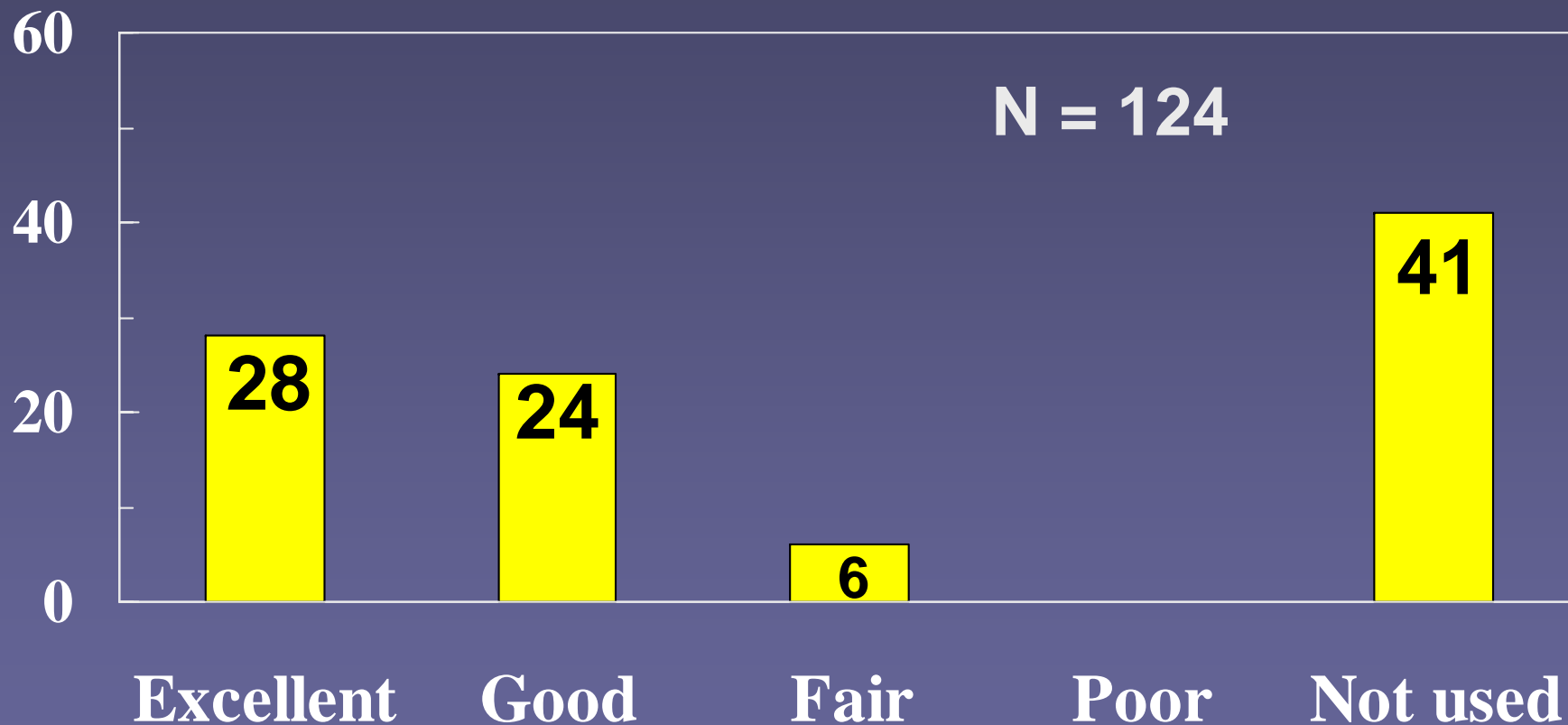


Kerb Timing



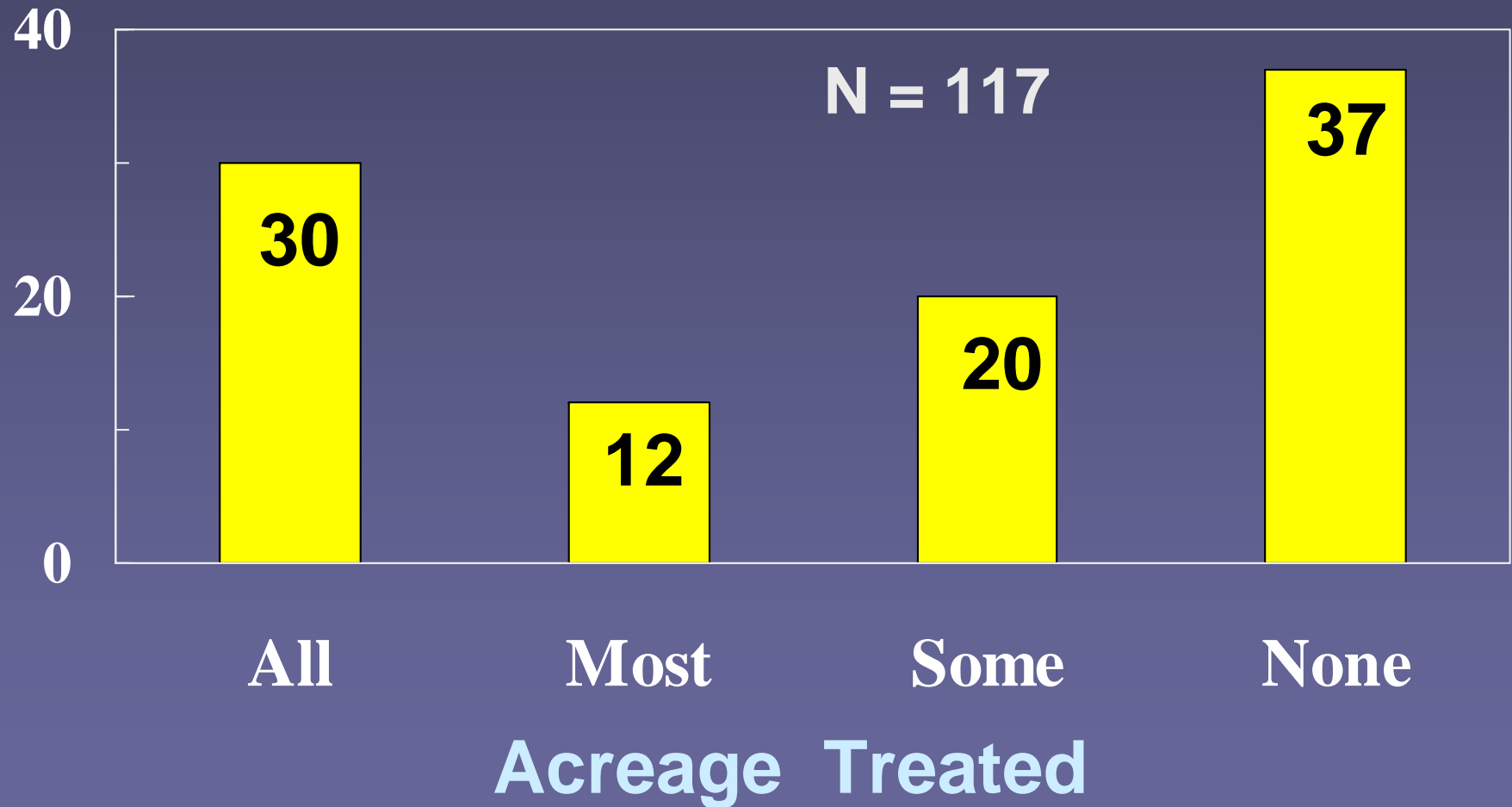
Casoron + Kerb Rated

Frequency (%)



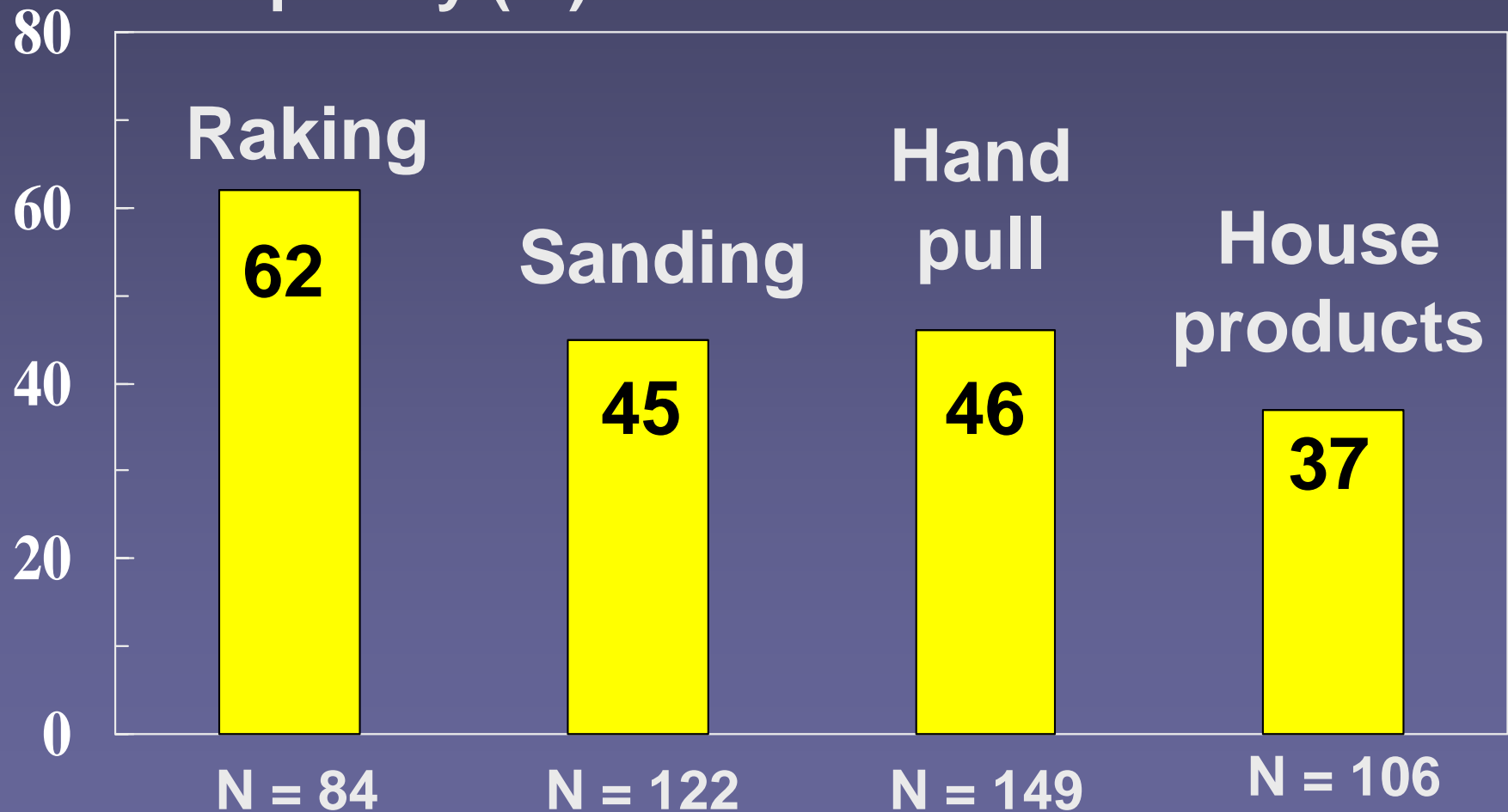
Casoron + Kerb Acreage

Frequency (%)

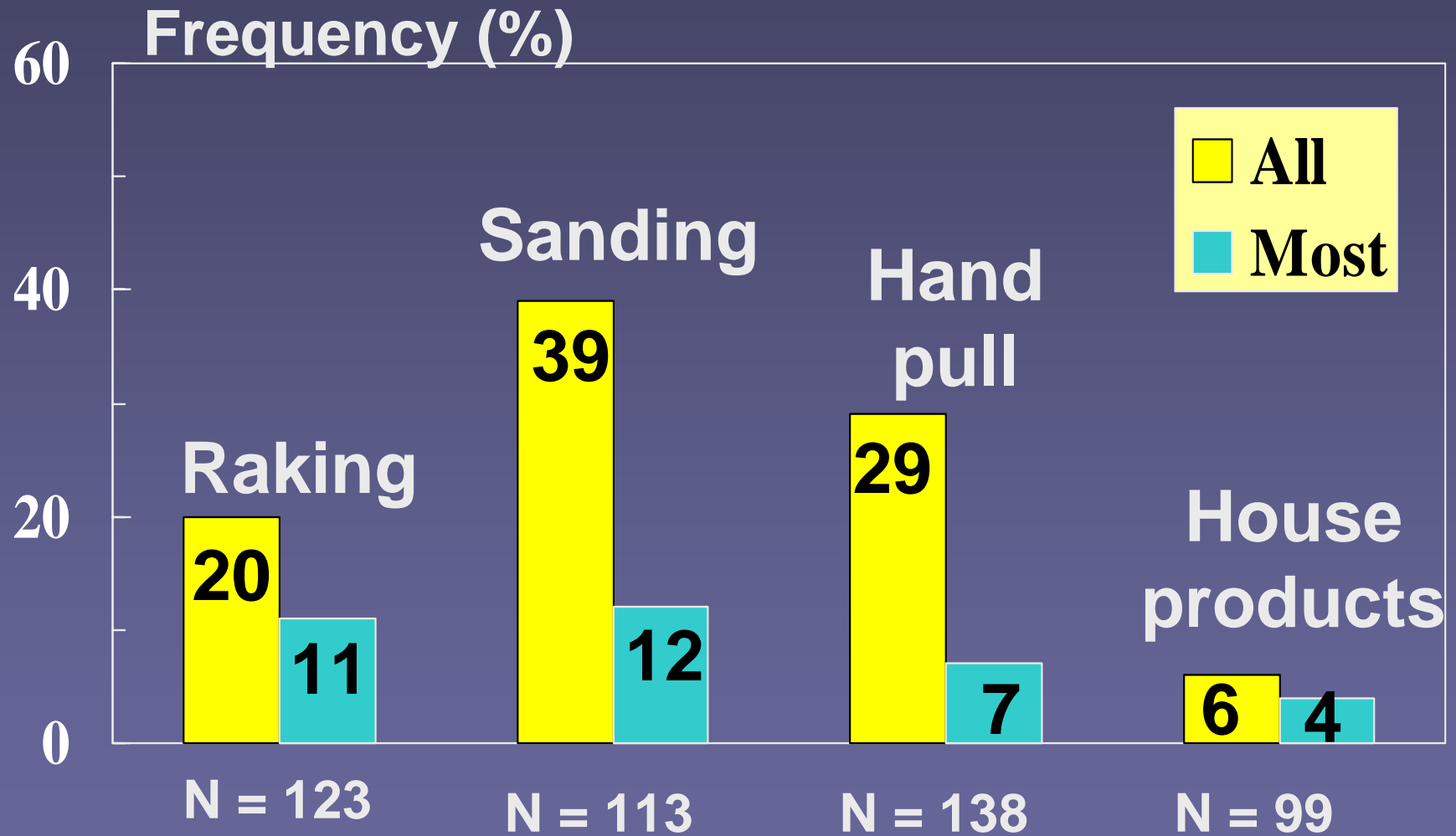


Rated as Poor

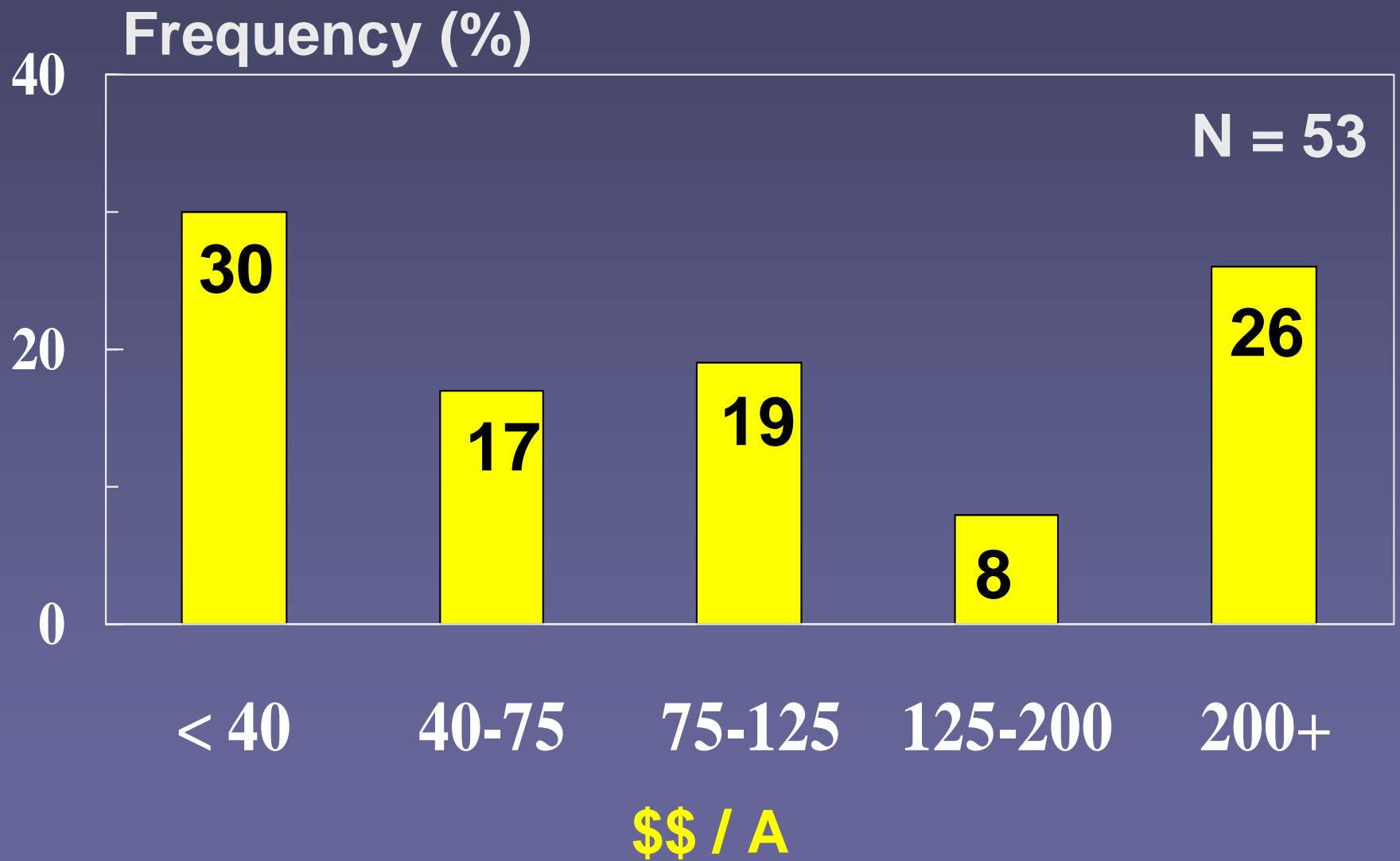
Frequency (%)



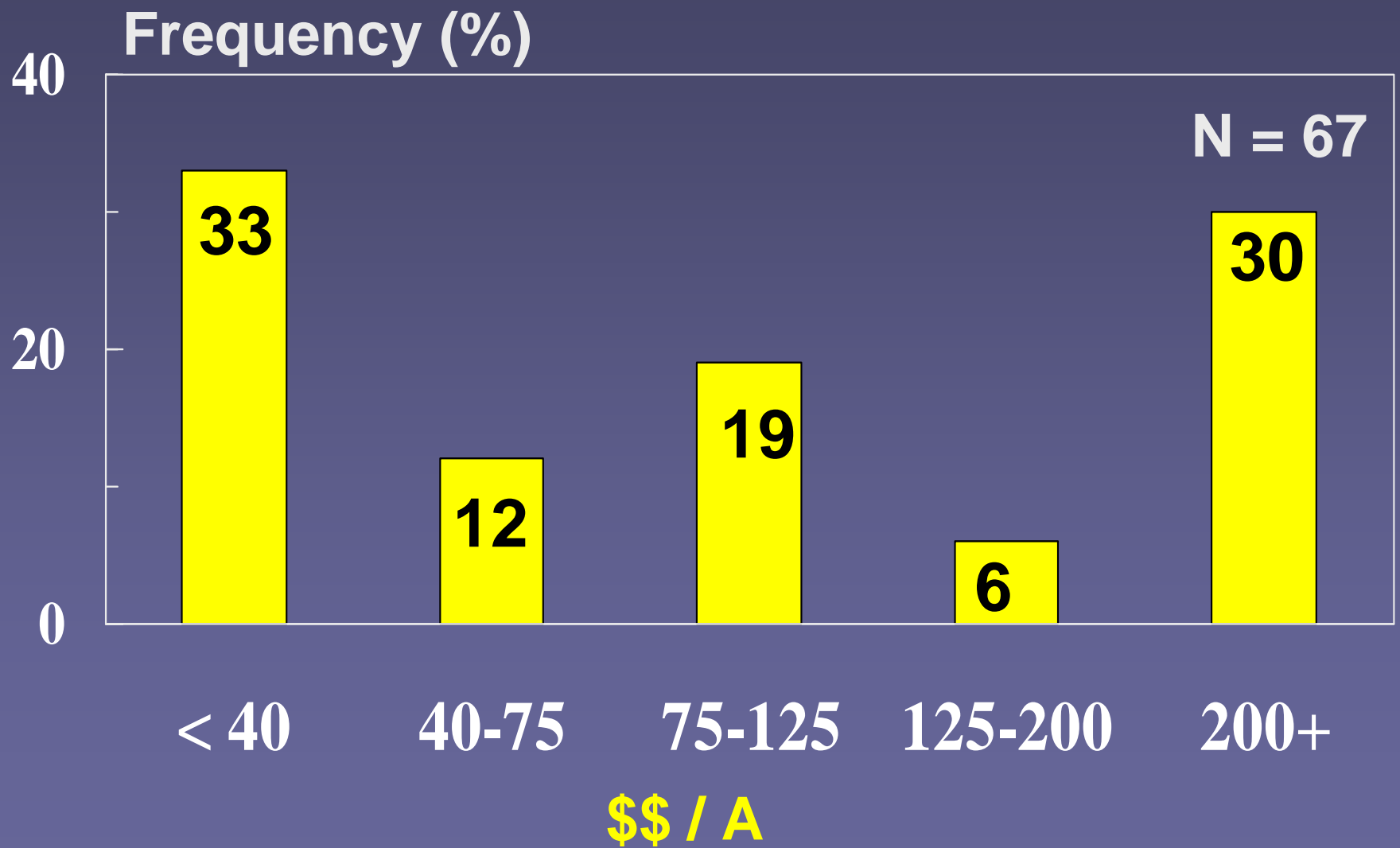
Acreage Treated



Cost of Raking

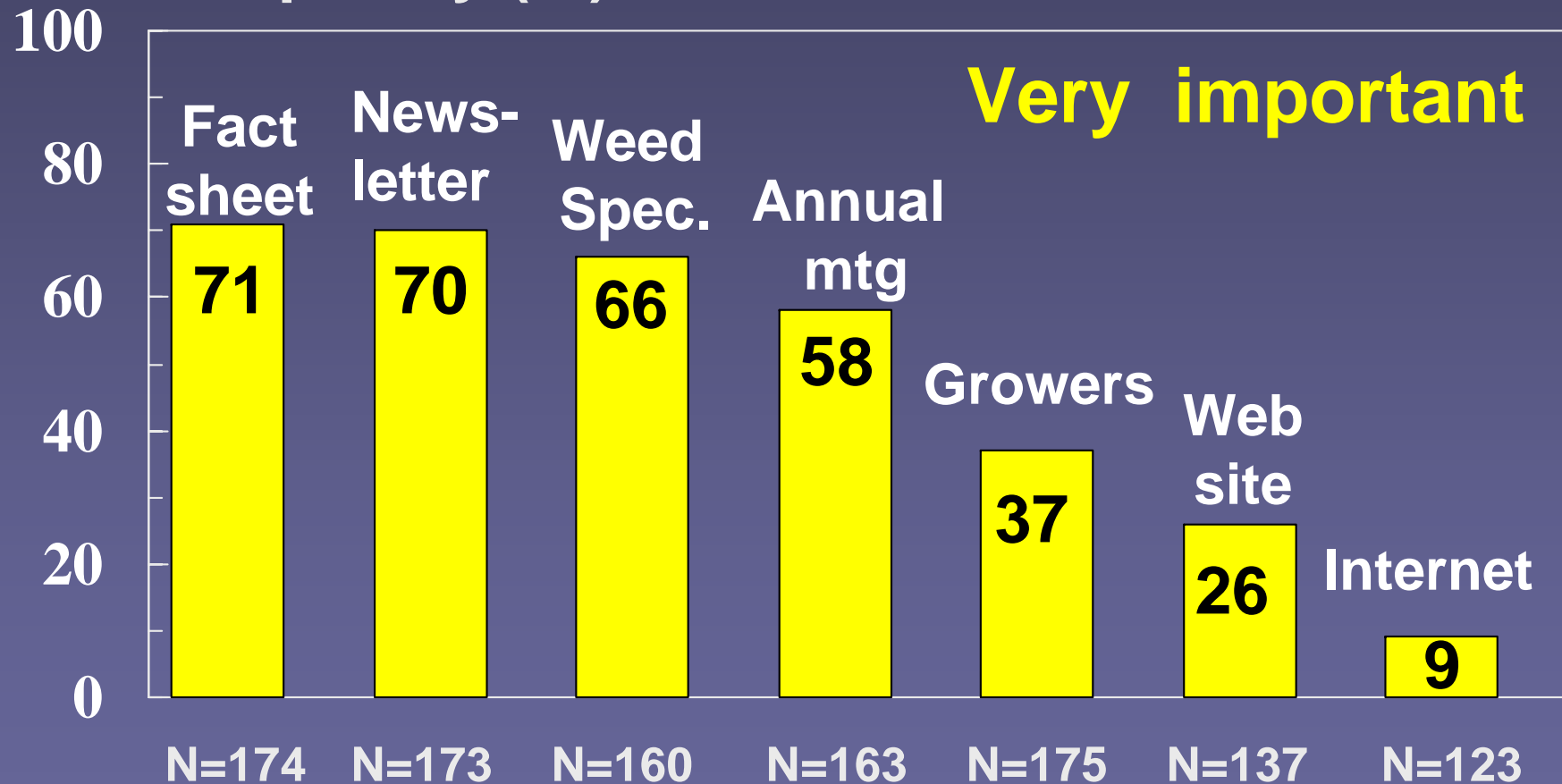


Cost of Hand-Pulling



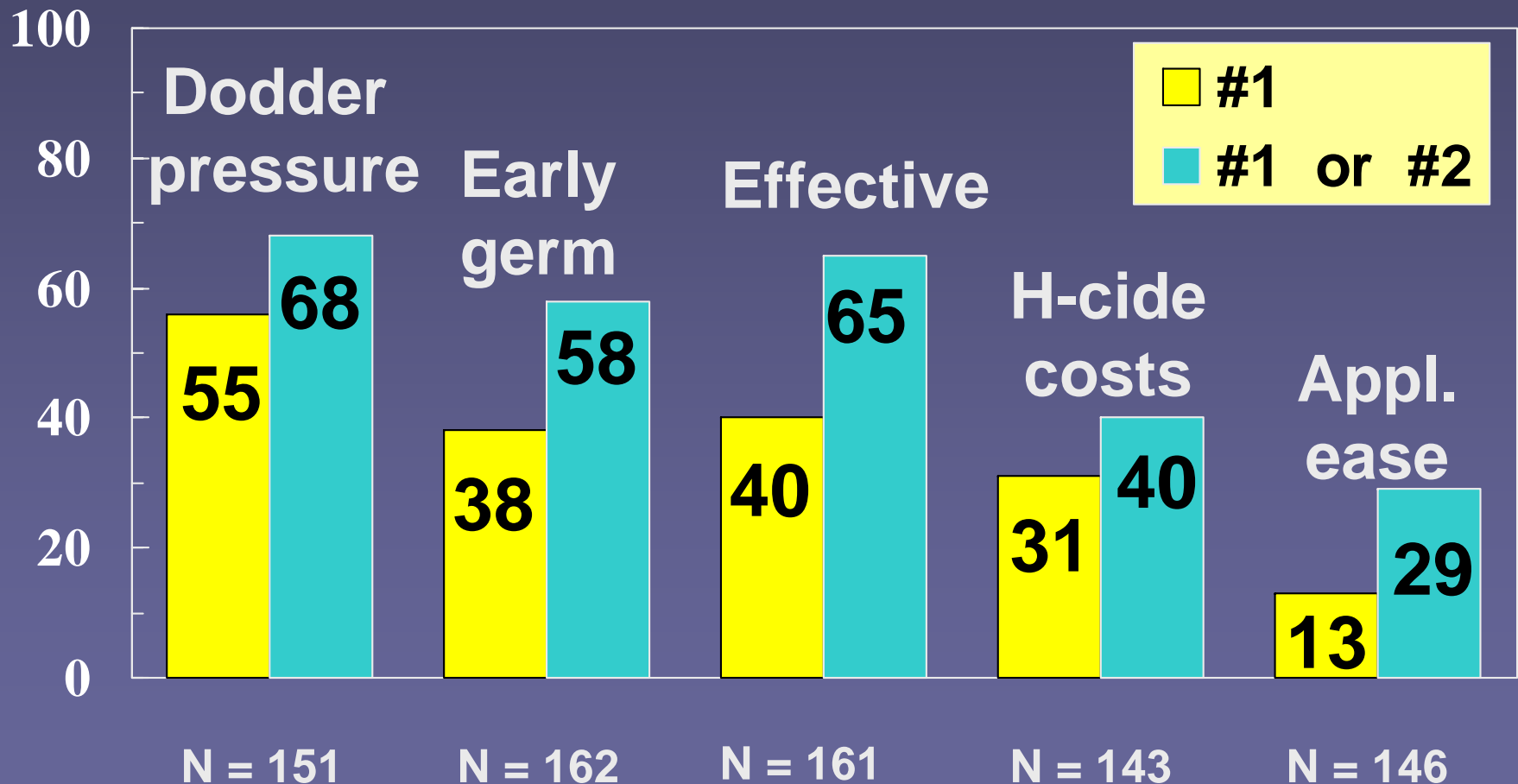
Information Sources

Frequency (%)



Influence Mgmt Decisions

Frequency (%)

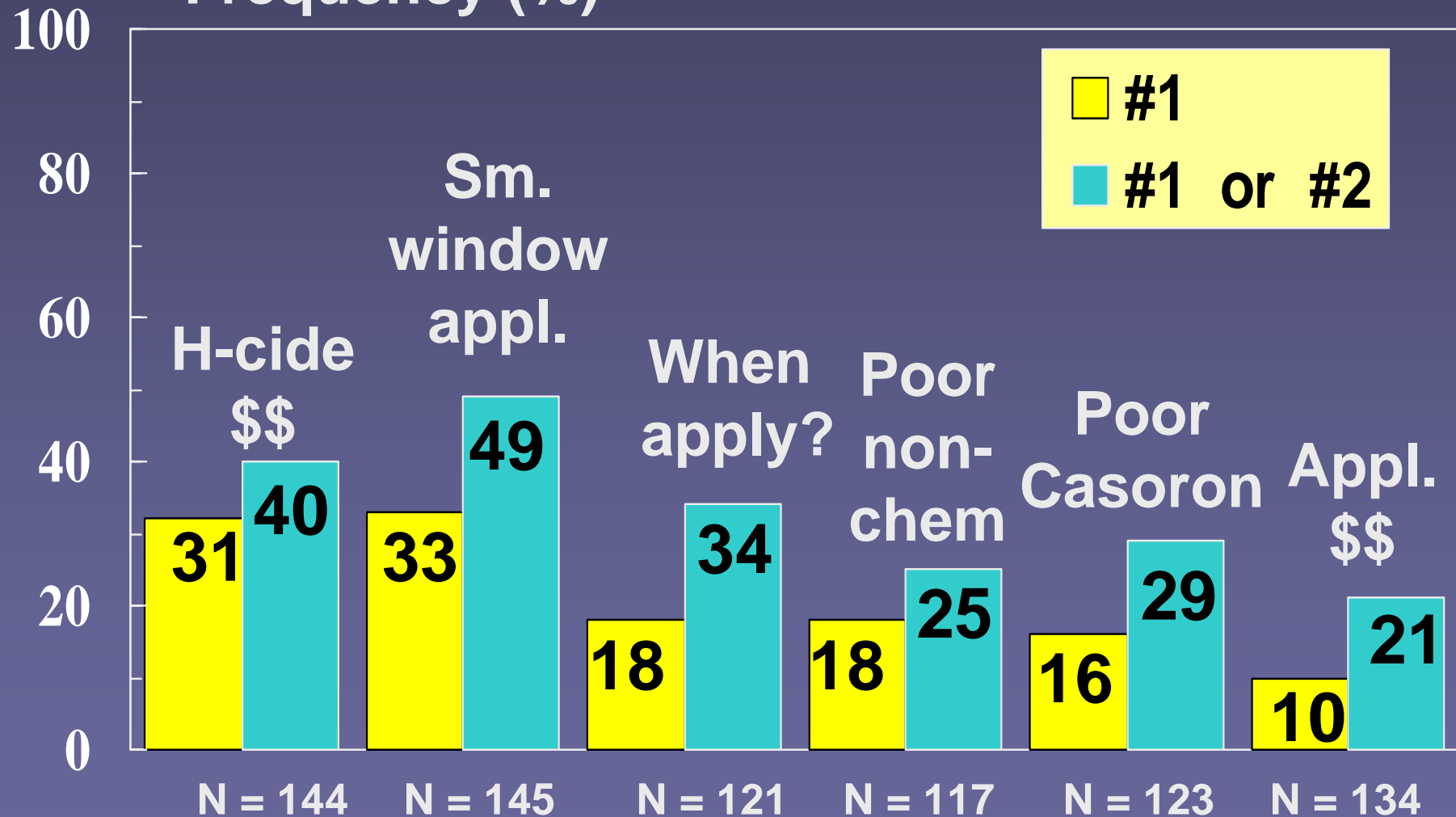


Moderately influential

- Weather Conditions
 - 65% ranked in Top 5 for influencing management decisions (N=145)
- Other items listed as Very Important:
 - Zone 2, Soil T, timing

Obstacles to Control

Frequency (%)



Other Obstacles

- Ways to reduce seed bank
- Prevent infestation from outside sources
 - Equipment (harvest, rental, boxes)
 - Water resources
- Reliance on 1 herbicide
- Find seedlings to time applications
- Weather