

Recycling Non-refillable Plastic Pesticide Containers 2006-07 Survey Results

Growers & Dealers

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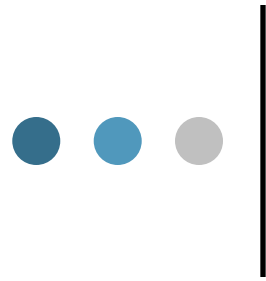
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Executive Summary

- The Concept
 - Respondents as indicators for program participation
- The Opportunity
 - A program dealers facilitate
 - A program growers support and willingly participate
- The Potential
 - A recycling program that is self-sustaining



Overview of Survey Topics

➤ **Growers**

- Environmental Attitudes
- Current Methods of Disposal
- Aspects of Recycling
- Preparation & Responsibility for Recycling
- Awareness of Programs
- Program Support and refund amount
- Classification

➤ **Dealers/Commercial**

- Environmental Attitudes
- Current Methods of Disposal
- Aspects of Recycling
- Preparation & Responsibility for Recycling
- Awareness of Programs
- Program support and refund amount
- Location Classification



Methodology for Both Surveys

- **Primary mode of data collection was mail survey.**
- **Offered website**
 - **3 contacts by mail**
- **Telephone reminder prompt for return of mail or web.**

Initial sample sizes:

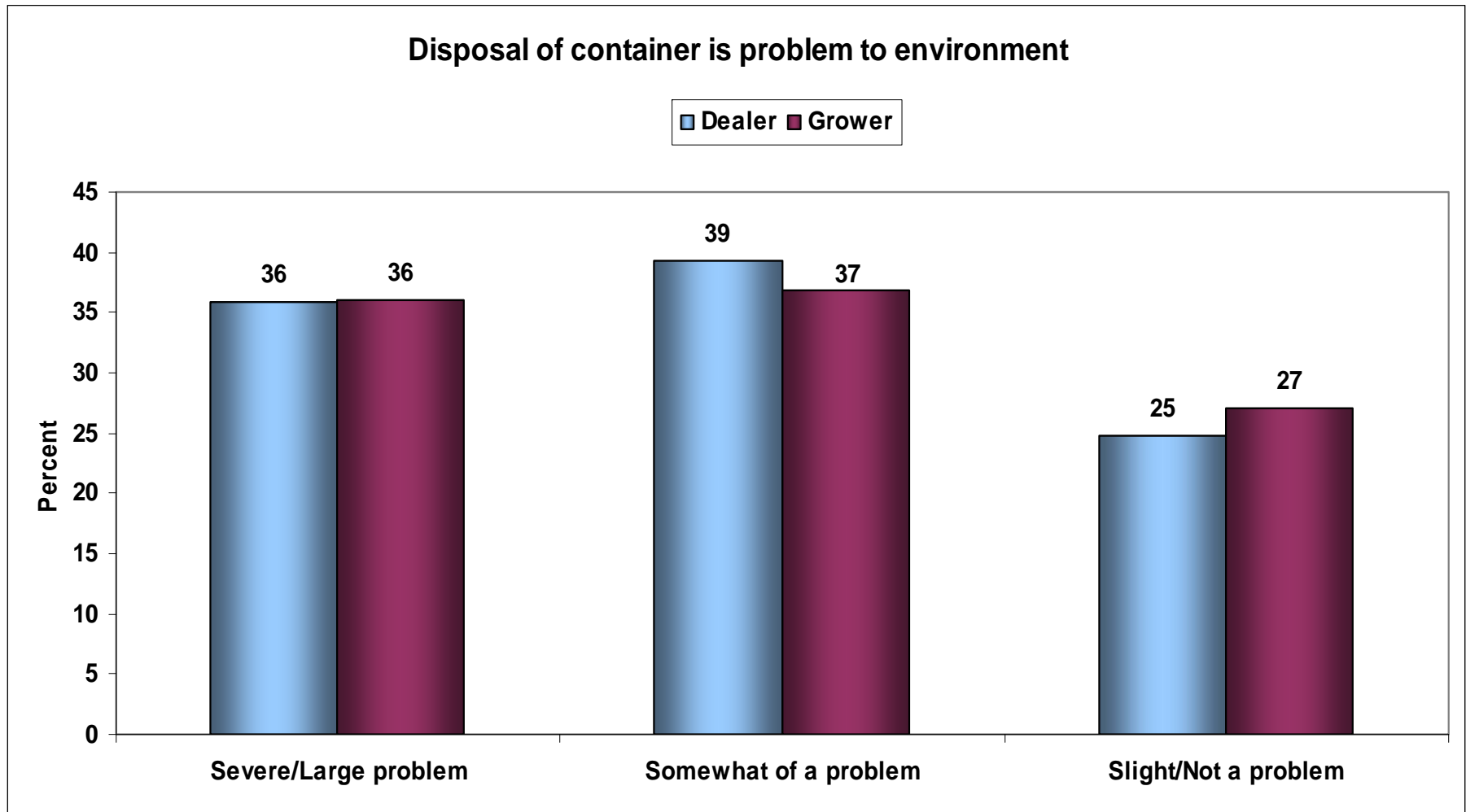
- 1600 commercial
- 1600 growers

Response Rates

- Commercial 674 or 47.7%
 - 18% on web
- Growers 689 or 47.9%
 - 9.5% on web



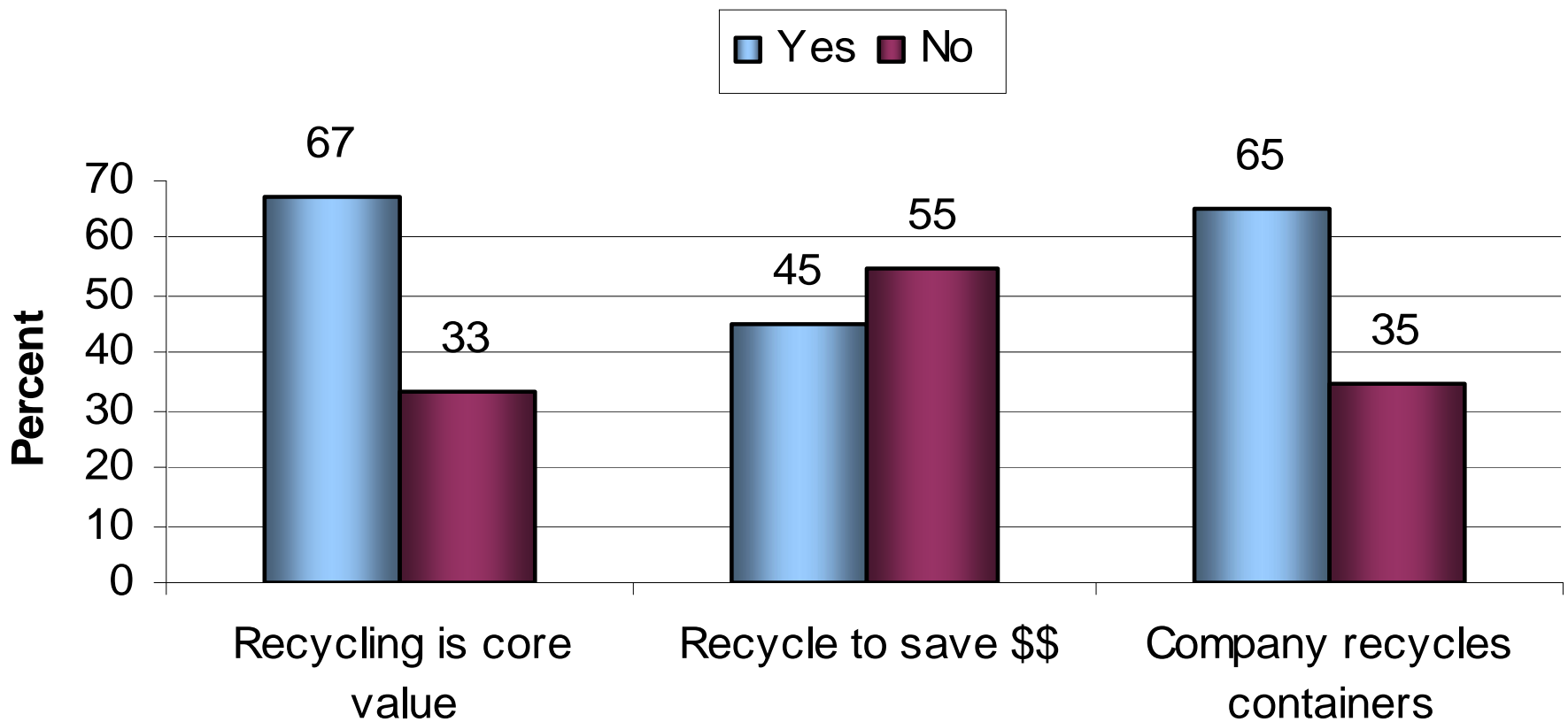
How big a problem do you feel the disposal of used pesticide containers is to the quality of the environment? (Q1)





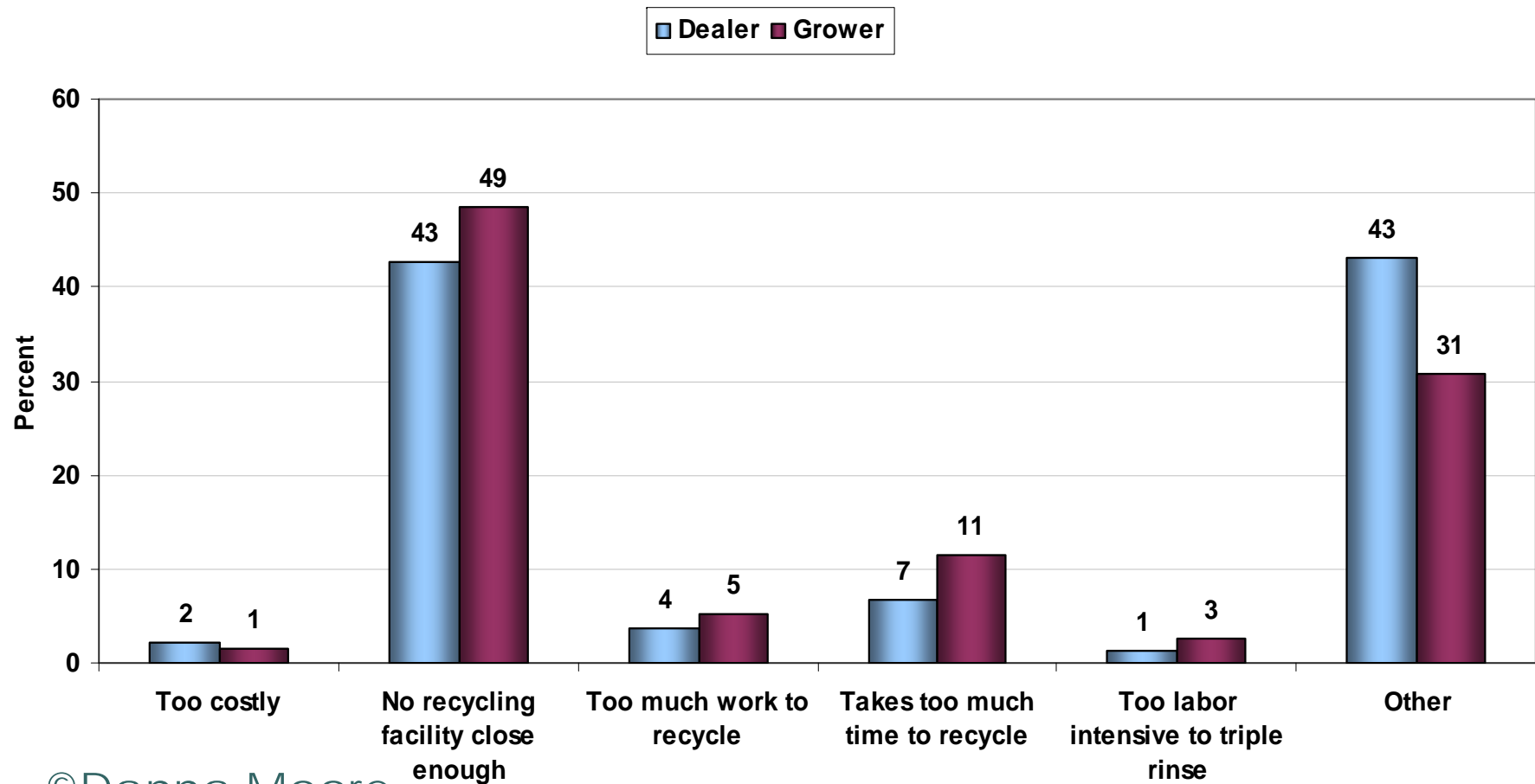
Environmental Attitude

Commercial: Environmental Attitudes Q3-Q5

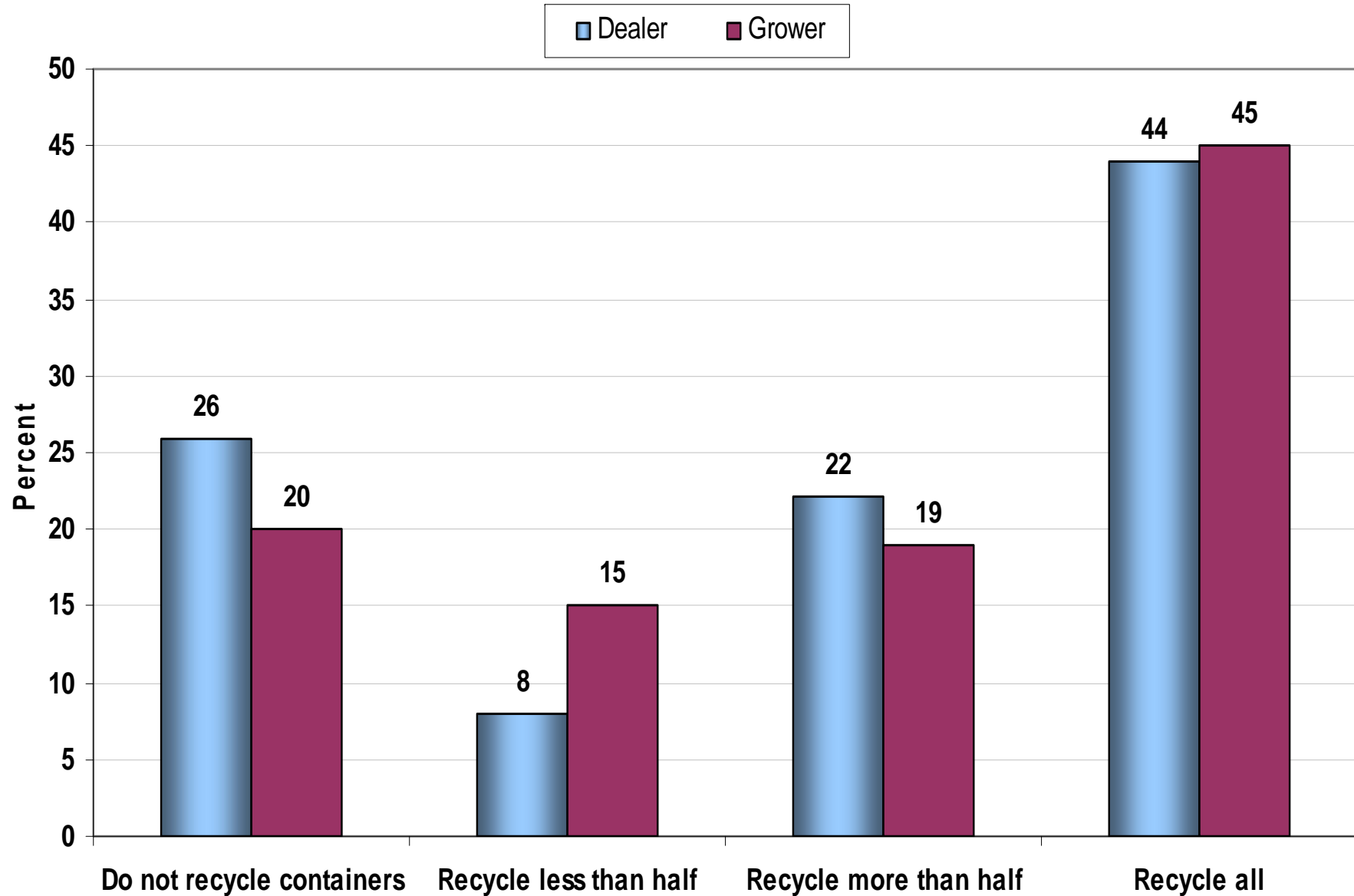


What is the main reason you do not recycle pesticide containers? (Q6/Q5)

The main reason not recycle--N=55 commercial & 348 growers

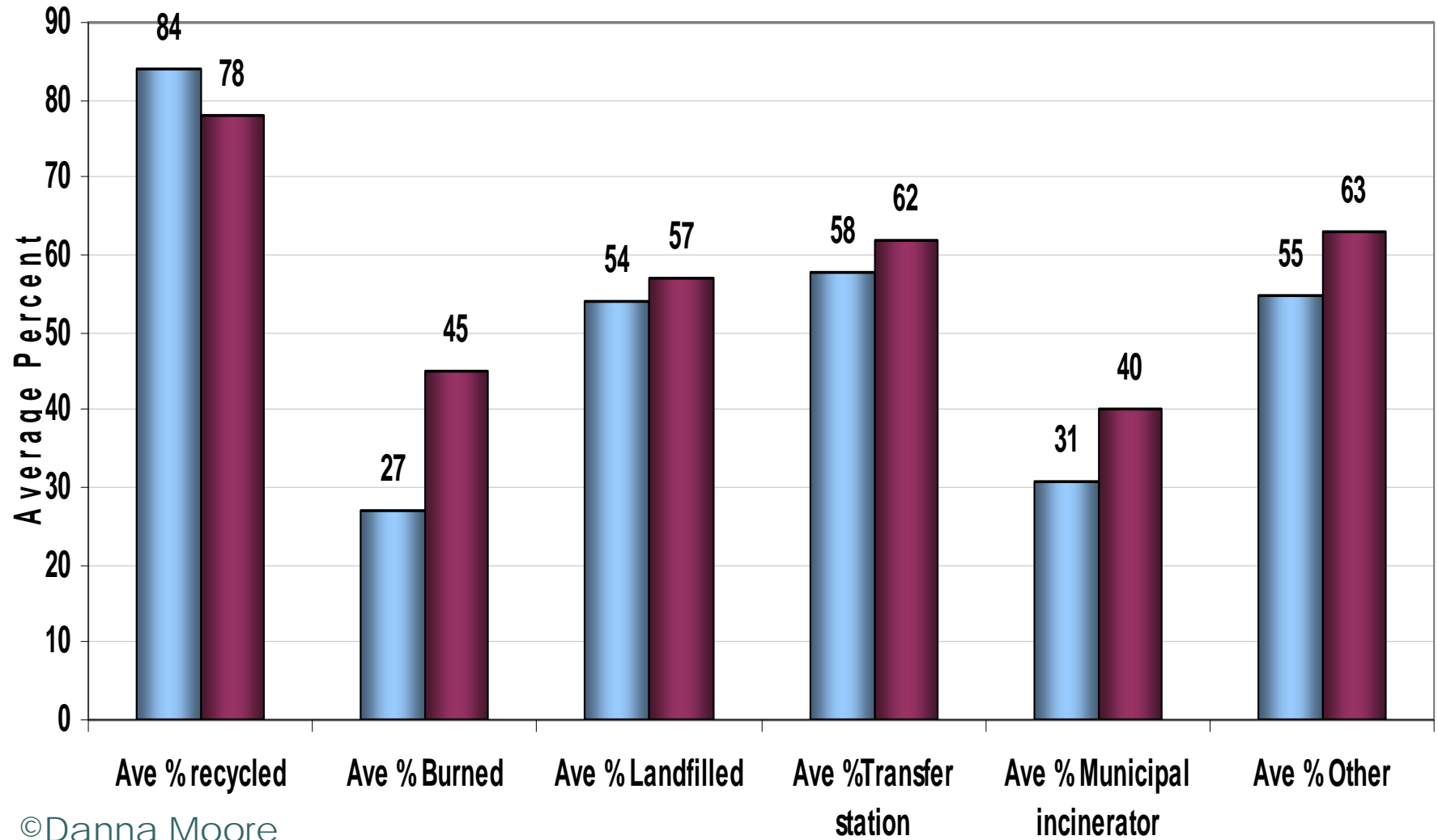


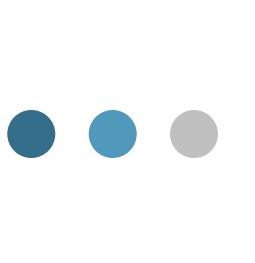
Current practice towards disposal of empty non-refillable pesticide containers (Q7/Q4)



Commercial & Growers: Average--- Percent of Containers

For the last 12 months, what percentage of your non-refillable pesticide containers is disposed of: (Q8/Q6)





Important points for setting refund amount (random)

Commercial:

- 83% “yes” (n=674) to \geq \$1 to \$10 amount offered (Q12)
- 42 % (n=73) say \$0 would be enough (Q13).
- 25% of (n=7) say it would take \geq \$6.

Growers:

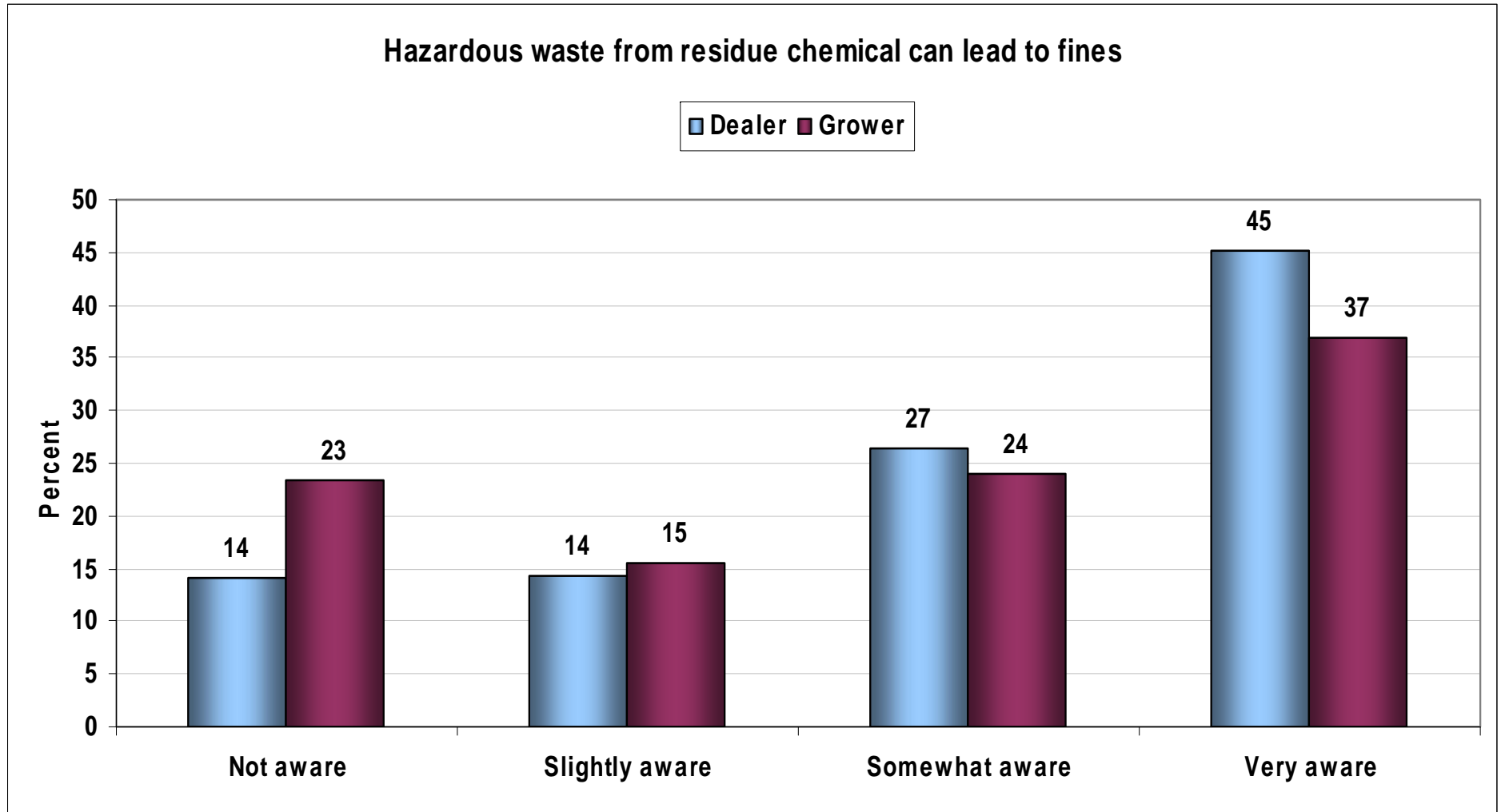
- 83% say “yes” (n=689) to \geq \$1 to \$10 offered (Q9).
- Mean \$4.31, median \$1
- 35.6% (of n= 62) said \$0 would be enough.



What amount of money would be enough to make recycling worth the time & effort

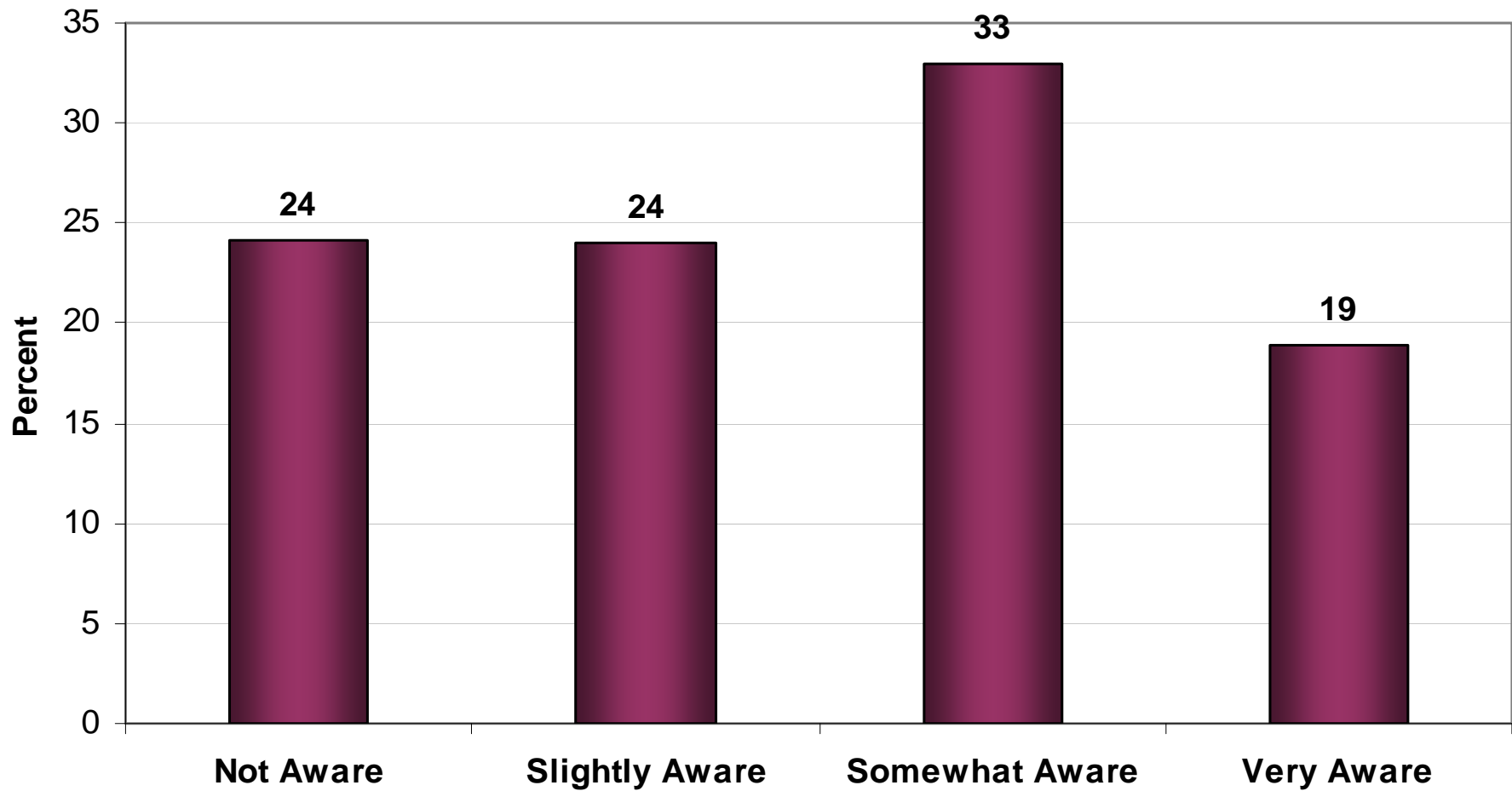
	Commercial Q13 N=73 of 674	Growers Q10 N=62 of 689
Mean	\$12	\$4.31
median	\$1	\$1
Mode	\$0	\$0
Range	\$0 to \$500	0 to \$100

How aware are you that hazardous waste from residue chemicals can lead to fines? (Q14/Q11)



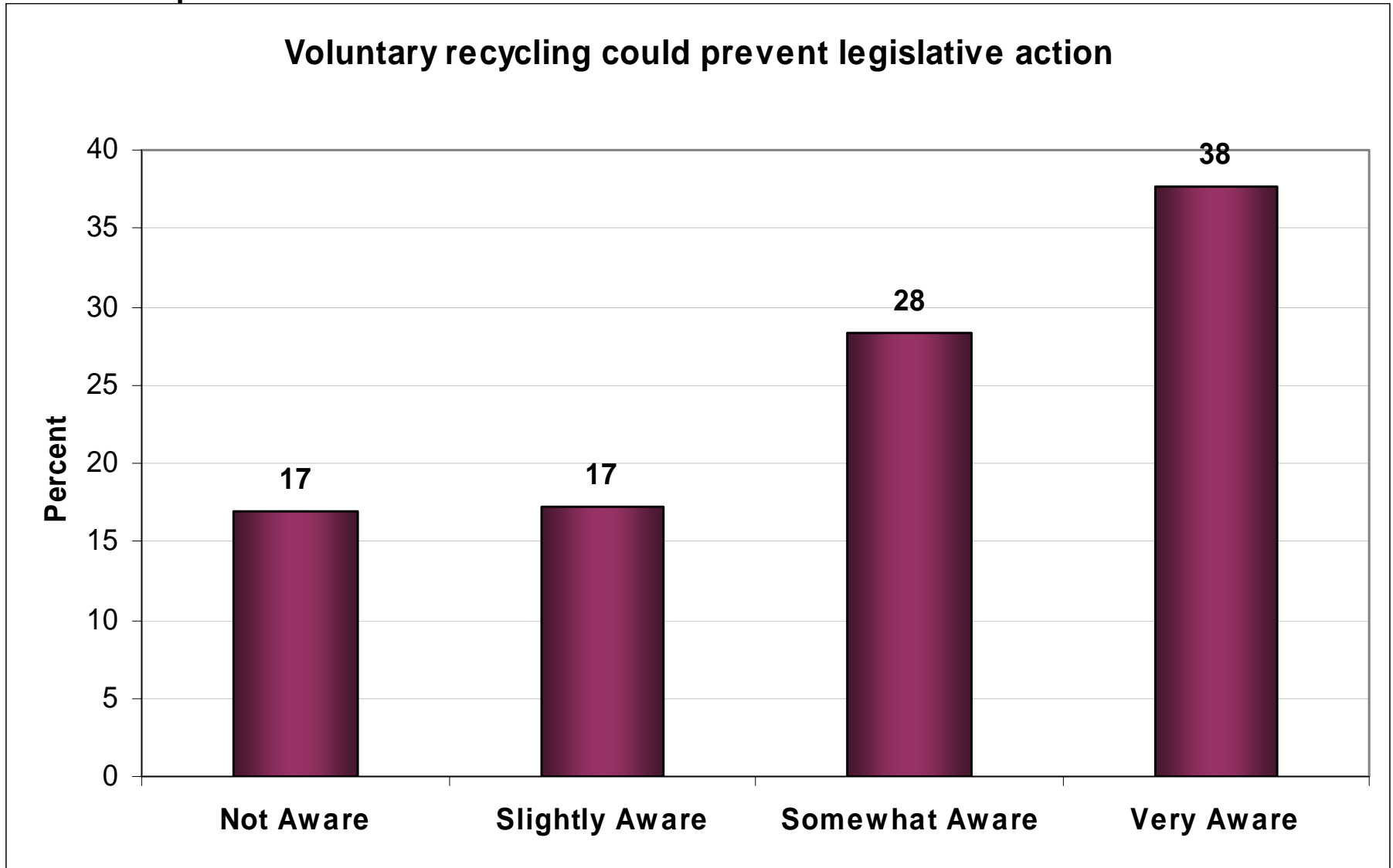
AWARENESS: Grower only (Q11)

Assessment of fees could offset recycling program costs

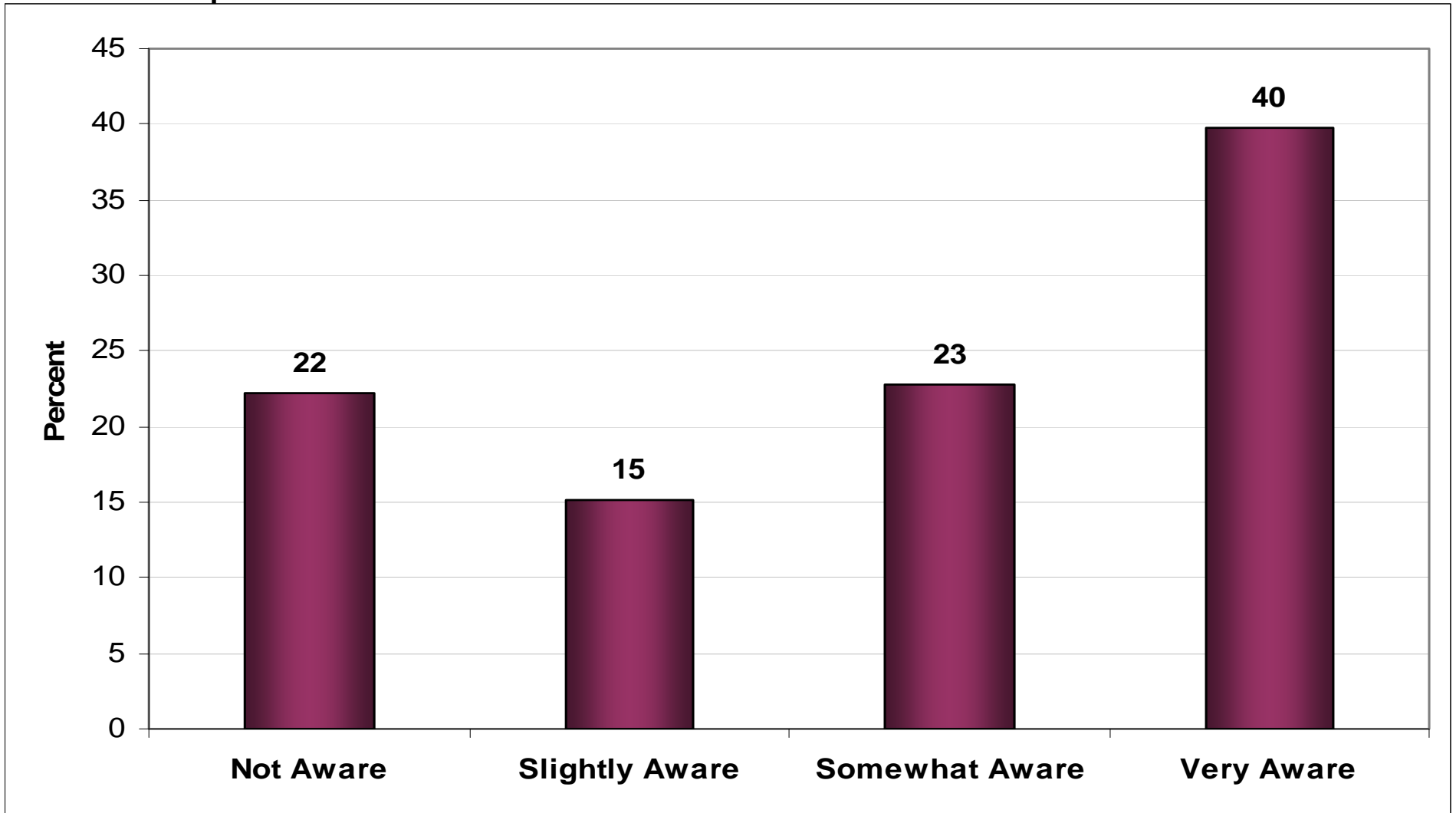




AWARENESS: Grower only (Q11)

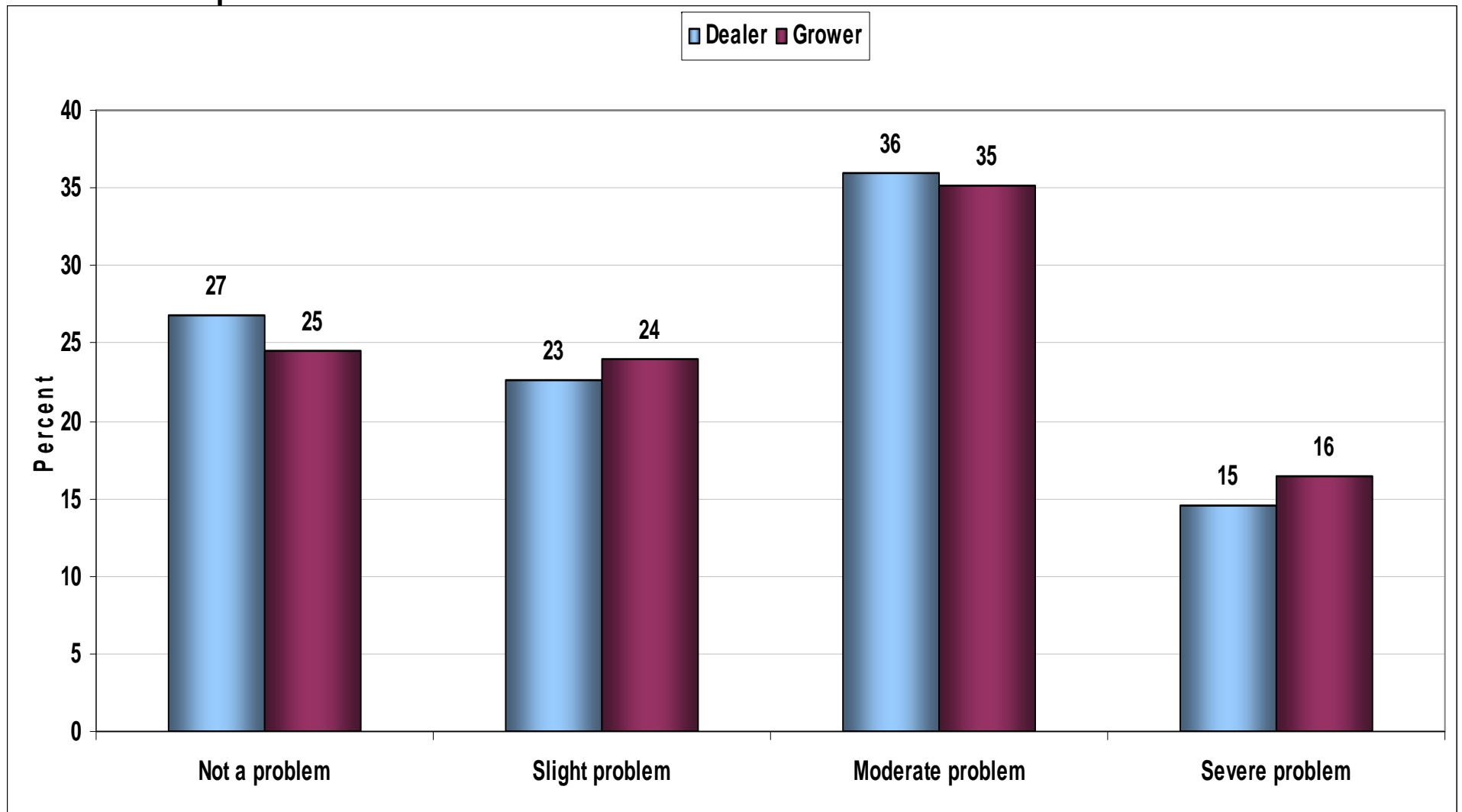


AWARENESS: (Grower only) Burning waste pesticide containers can lead to a \$5,000 minimum fine that can be assessed by WA Department of Ecology for violation of the federal Clean Air Act. (Q11)

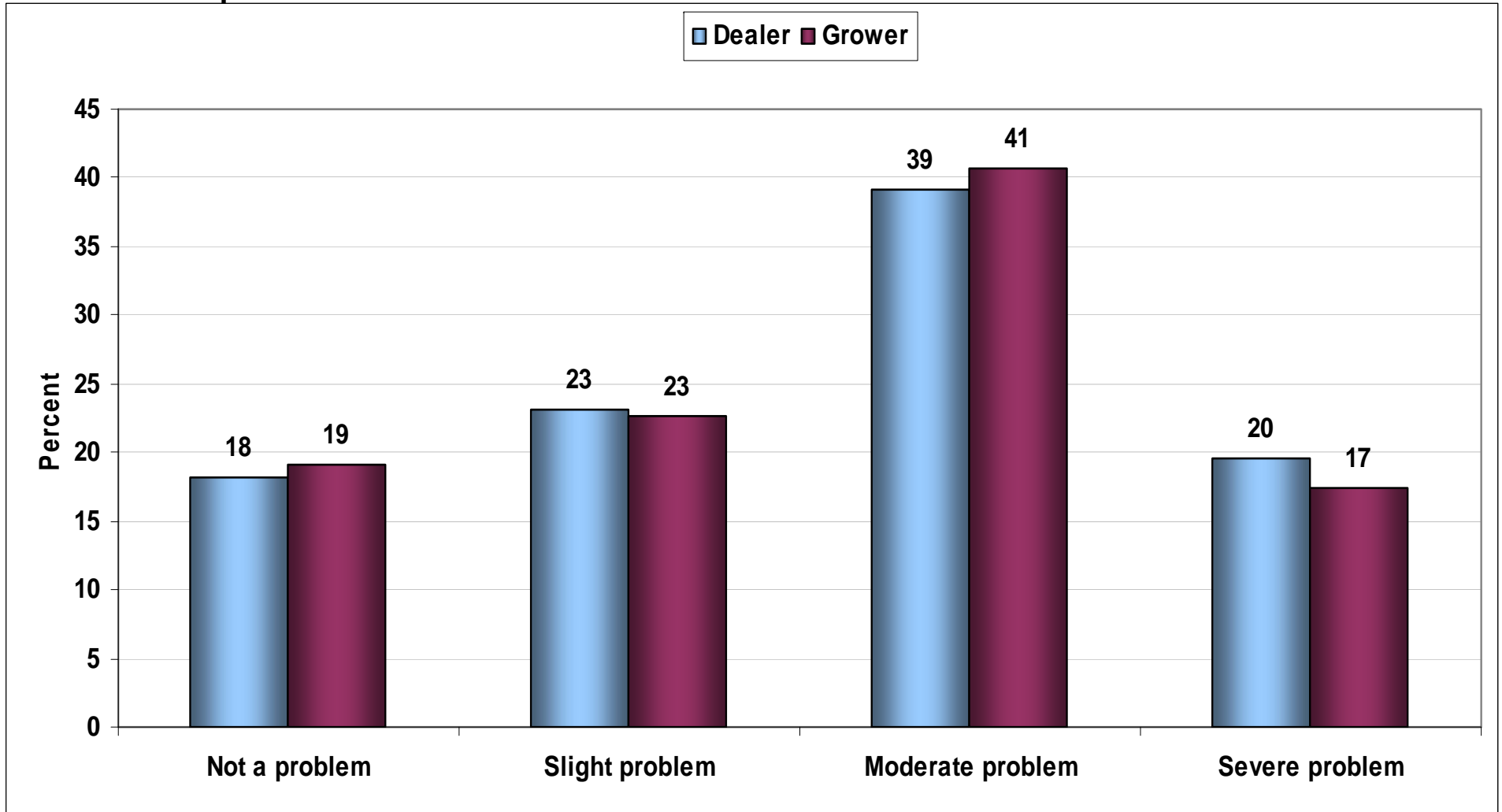




How much of a problem are holding and storing rinsed pesticide containers on site? (Q16/Q13)

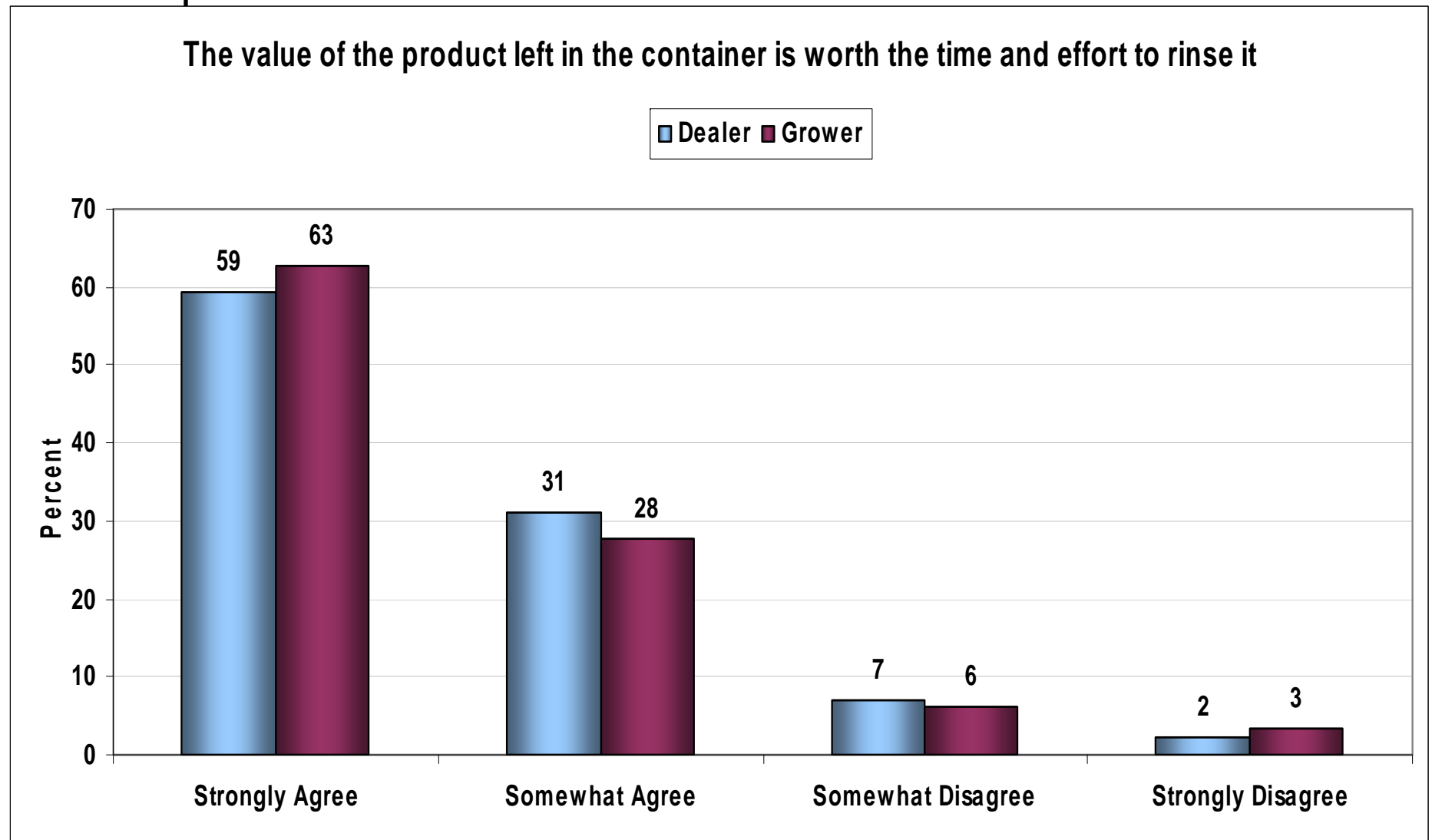


● ● ● | **How much of a problem are time and cost for transporting large number of containers? (Q16/Q13)**



Agree or disagree--

“The value of the product left in the container is worth the time and effort to rinse it.” (Q18/Q15)





Commercial: Aspects of Recycling Practice

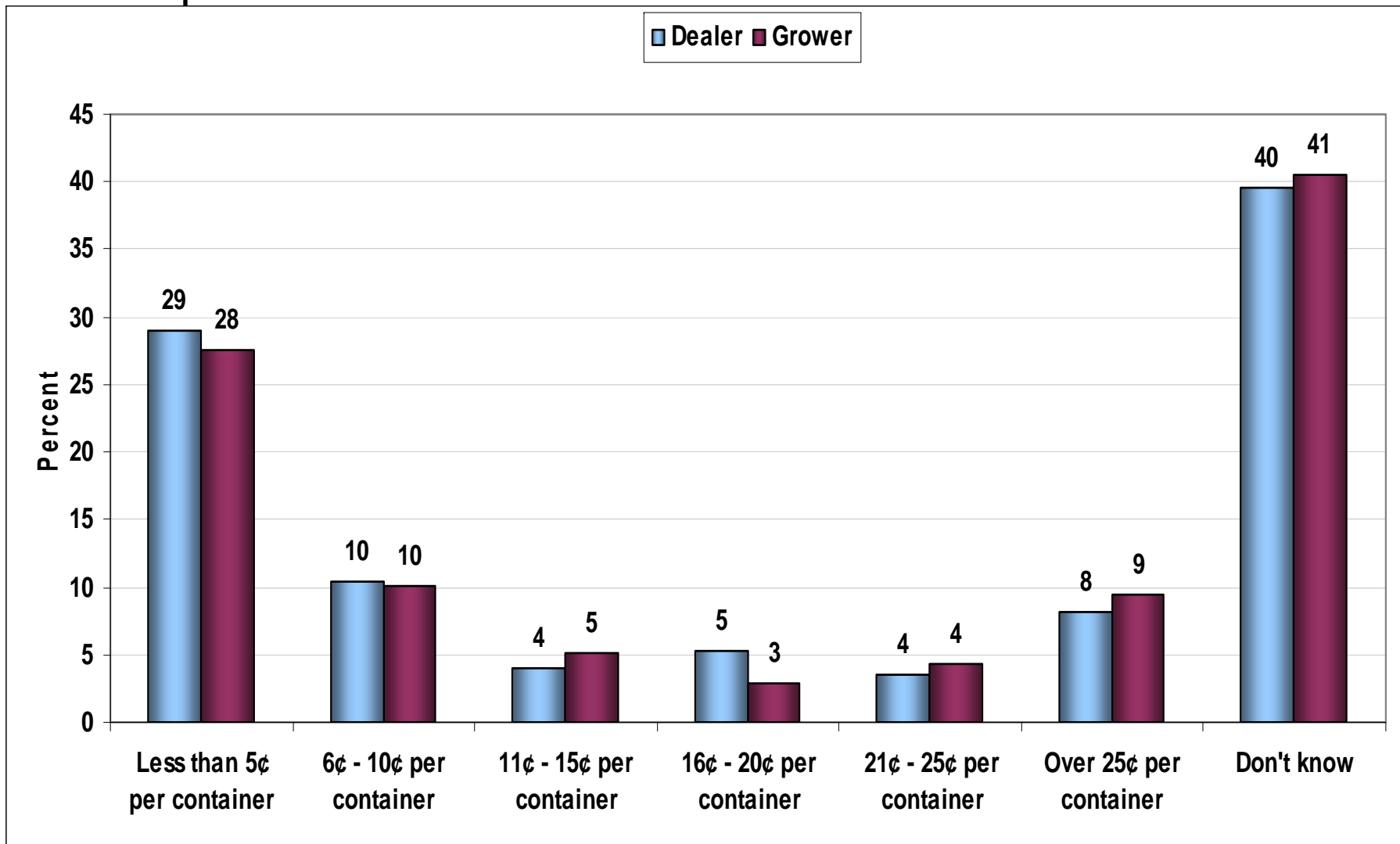
- 68% on site storage facilities (Q19)
 - Those that don't --average 14 mile
 - Median is 6 miles, Mode is zero miles
- 39% say a contractor comes on site to do recycle.(Q21)
- 17% host collection events at their facility.(Q23)
- 40% Take recycle to collection events they do not host.(Q24)
- 32% are Unaware of collection events at other locations (Q25)



Grower: Aspects of Recycling Practice

- 69% on site storage facilities (Q16)
 - Those that don't --average 5.3 mile
- 8% say a contractor comes on site to do recycle.(Q18)
- 39% Take recycle to collection events they do not host.(Q21)
- 27% are Unaware of collection events at other locations.(Q20)

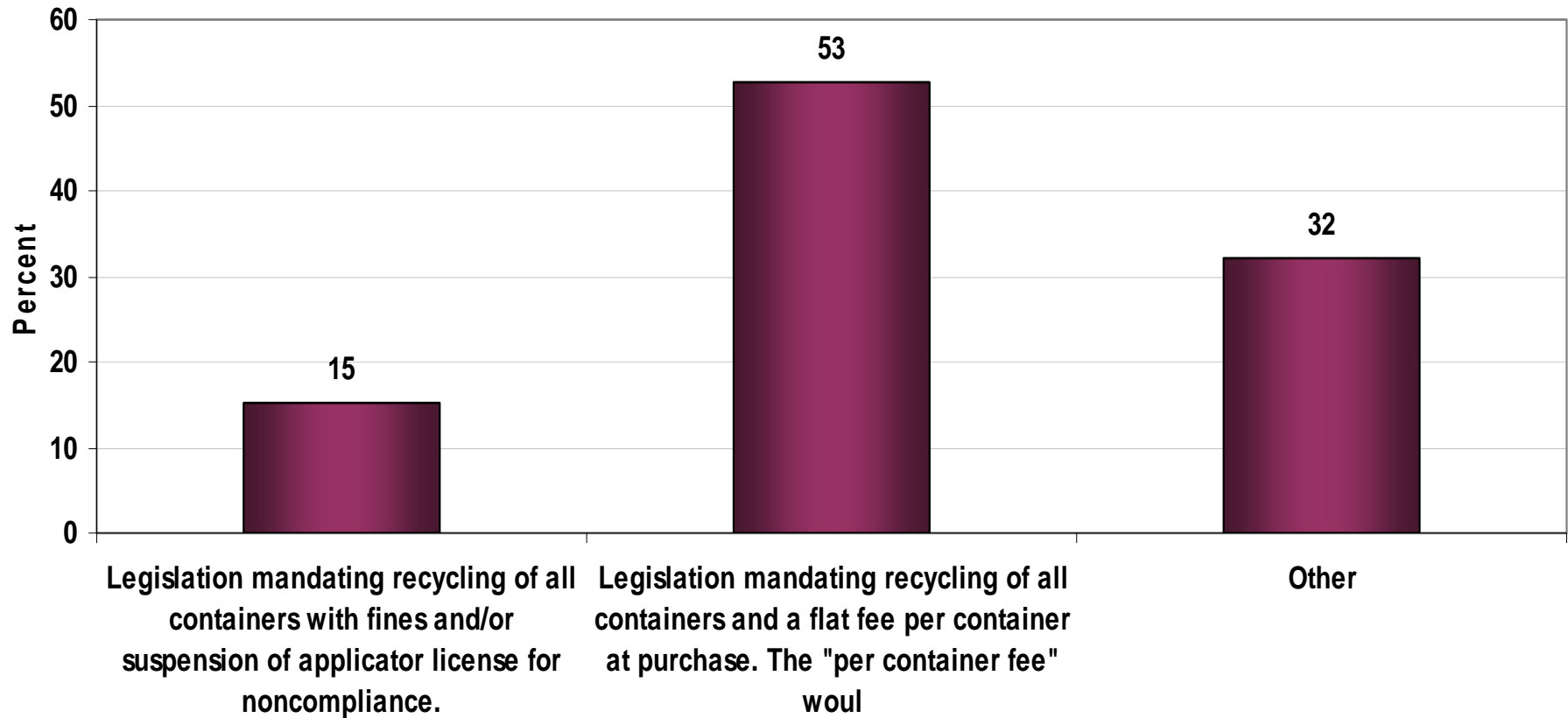
How much do you estimate you spend to dispose of used pesticide containers? (Q24/Q36)



Grower:
Which would you prefer for funding pesticide container recycling programs? (Q32)



Which would you prefer for funding pesticide container recycling programs?
(Q32)





Discussion & Conclusions

- Both populations strongly support a recycle program.
- A deposit refund program is highly feasible
a random \$ 1 to \$10 amount is sufficient to recycle.
- At least a third of those that turned down the offered dollar amount countered---would do it for \$ zero dollars.
- However, there remains a portion (approx. 25%) that will need significant motivation to recycle
- Distance to recycle facility remains a significant barrier.

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