



Bobtail Pilot Survey

NPGA T&S Committee; Sparks, NV

February 28, 2006

The ADEPT Group, Inc.

Mr. Alex Spataru

Questionnaire: Part 1

- Company Info
- # of LP Gas bobtails operated by company
- Average annual mileage per bobtail
- Methanol used?





Questionnaire: Part 2

■ Bobtail Tank Info:

- Manufacturer
- Manufacture date
- Size (water capacity)
- Manway (y/n)
- Head type
- Last inspection date
- Steel grade
- Shell Thickness
- Head thickness



Survey Recipients

- WPGA provided ADEPT with list of 22 marketers that were:
 - WPGA Board Members; and
 - Likely to respond to the survey.
- All recipients were CA-based marketers



Pilot Survey Results: Part 1

- 13 of 22 recipients responded to survey (59%)
- Total of 156 bobtails were owned and operated by the 13 marketers (~14% of bobtails in CA)
- Annual mileage per bobtail: 15,468 miles/year on average
- 5 of 13 report that methanol is not commonly used in the delivered LP Gas. 5 others responded that they use methanol “sometimes.”

Pilot Survey Results: Part 2



- 4 tank manufacturers represent 69% of reported bobtail tanks:*
- Trinity: 34%
- Arrow Tank: 14%
- American Bridge: 12%
- Kleepsie Tank: 9%

* Results may be regional specific.

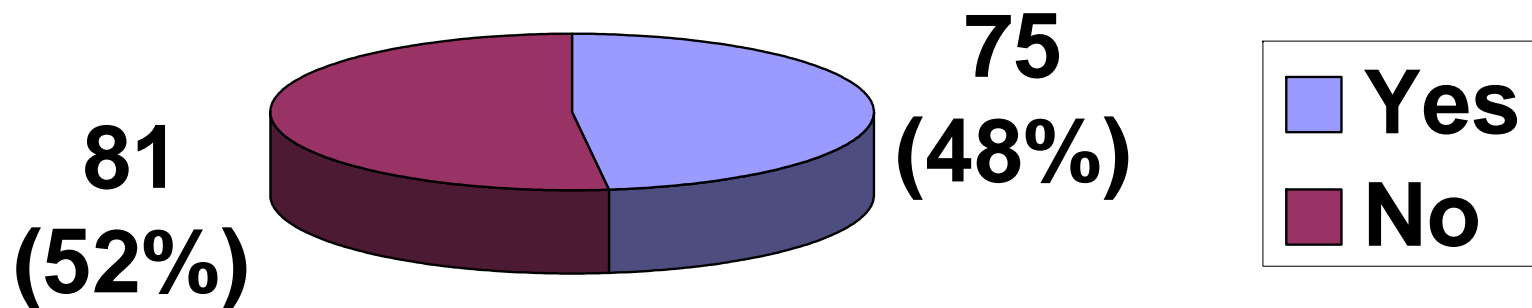


Pilot Survey Results: Part 2

- Manufacture date spanned from 1960 to present
- 43% of the bobtail tanks were manufactured in the last decade
- Average water capacity: 2,870 gallons
- 44 of 156 bobtails (28%) were in the range of 3,000 and 3,099 gallons

Pilot Survey Results: Part 2

Slightly more than half of the bobtail tanks surveyed do not have manways



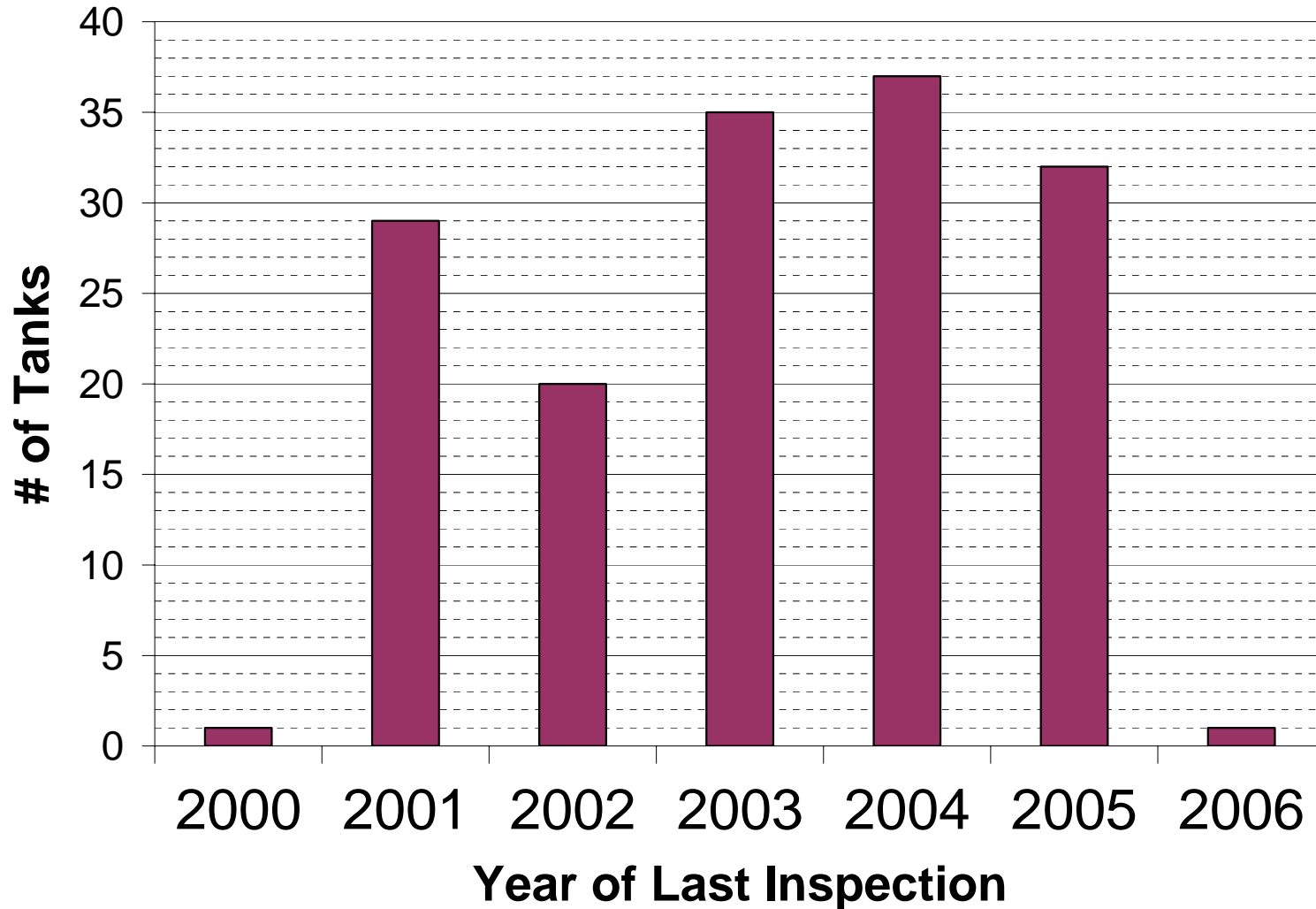


Pilot Survey Results: Part 2

- Vast majority (73%) of the tanks have welded heads (end caps)
- Tank inspections were evenly distributed over the last 5 years
- Flaw exposed in steel grade question
- Average shell thickness: 0.446”
- Average head thickness: 0.253”



Inspection Date Responses



Modifications to Final Survey

- Be specific that the inspection date should be the date of last pressure test (5-yr “P”)
- Provide options for steel grades (e.g. SA612 & SA202)
- Note that MC331 and NQT are tank specs, not steel grades

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LP GAS BOBTAIL SURVEY

Company name: _____

Address: _____

Zip Code: _____

Phone number: _____

Email address: _____

How many LP Gas bobtails does your company currently operate? _____

What is the average accumulated annual mileage per bobtail? _____ miles/year

Is there any damage to the tank? Please check one.

Yes No Sometimes

(Please continue on next page)

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LPG BOBTAIL SURVEY

Please provide information from this page for each bobtail. (This page can be copied for additional bobtails.)

1. Tank manufacturer: _____
2. Date of manufacture: _____
3. Water capacity (or diameter of tank): _____
4. Does the tank have a manway? Yes No
5. Head type (if applicable): _____
6. Head type (if applicable): _____
7. Steel grade (if available): SA202 SA612 other _____
(Please note - MC331 and NQT are tank specifications, not steel grades.)
8. Shell thickness: _____
9. Cap (Head) thickness: _____

Please provide a brief description of any past repairs to the tank, if any: _____

Please note any current damage to the tank (dents, gouges, if any): _____

When completed, please fax this form to: (310) 441-3001.
Thank you.

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Final Survey Targets

- Secure letter of support from NPGA
- Secure similar support from regional propane associations as well as recipient lists (e.g. Texas, Northeast, etc.)
- Target response goal is to meet or exceed 7.5 % of the estimated U.S.-wide bobtail tank population