NELAP SURVEY

Conducted Nov. 7th to Dec. 20th, 2008

Conducted by:

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Thank You to all of the Laboratories that invested the time to complete this survey!

Special Thanks.....

Critical Review & Content Editorial Review & Format

- Alfredo Sotomayor (WI DNR)
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- John Warren (EPA)
- Kirsten McCracken (TestAmerica)
- Dan Tholan (Consultant/Statistician)

Beta Testing

- Steve Arms (FDOH ELCP)
- •Bob Wyeth (CAS)
- Kirsten McCracken

(TestAmerica)

- Jeff Flowers (Flowers Chemical
- Labs)
- •Yvette Wilson (FDOH Lab)
- •Bob Di Rienzo (Datachem)

Support

WESTERN KENTUCKY UNIVERSITY



A LEADING AMERICAN UNIVERSITY WITH INTERNATIONAL REACH

Paula Newby & Dr. Zubair Mohamed- Advisor

Environmental Science Corporation | Mt. Juliet, TN



YOUR LAB OF CHOICE

NELAP Survey

~1200 Laboratories contacted >40% Participation 553 Responses representing 42 States & 6 Countries NH VT MT ND MA MN OR WI 16 NY 134 ID SD MI WY PA 16 IA NJ 18 OH NE NV ILDE WV UT CO 15 MD KS MO 21 CA 20 2 NC 8 13 SC OK AR AZ NM GA AL MS TX \mathbf{HI} 68 FL AK Plus: Canada, UK, Switzerland, Iceland & Puerto Rico

Survey Content

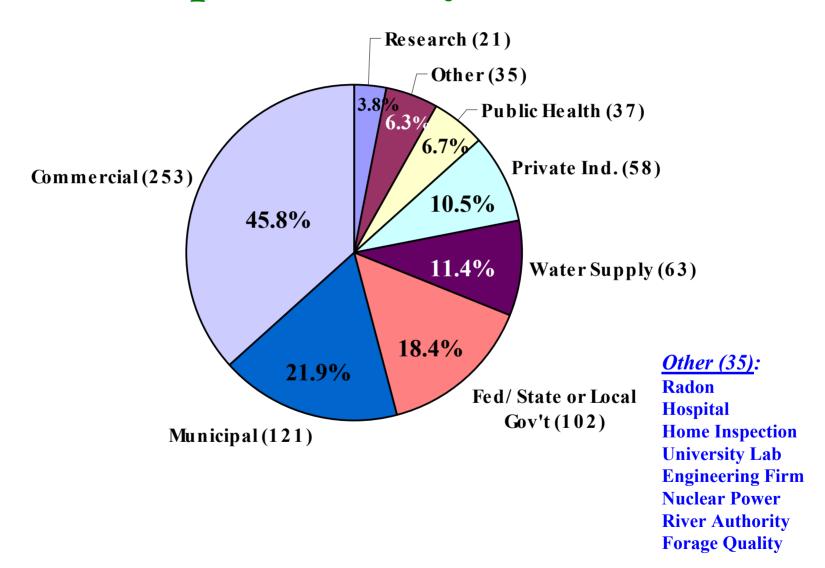
Laboratory Profile

10 Questions

Survey Questions

- (91 Individual Items to be answered or ranked)
- Motives for Seeking Accreditation
- Observed Benefits of Accreditation
- Quality Systems
- Proficiency Testing
- General Observations

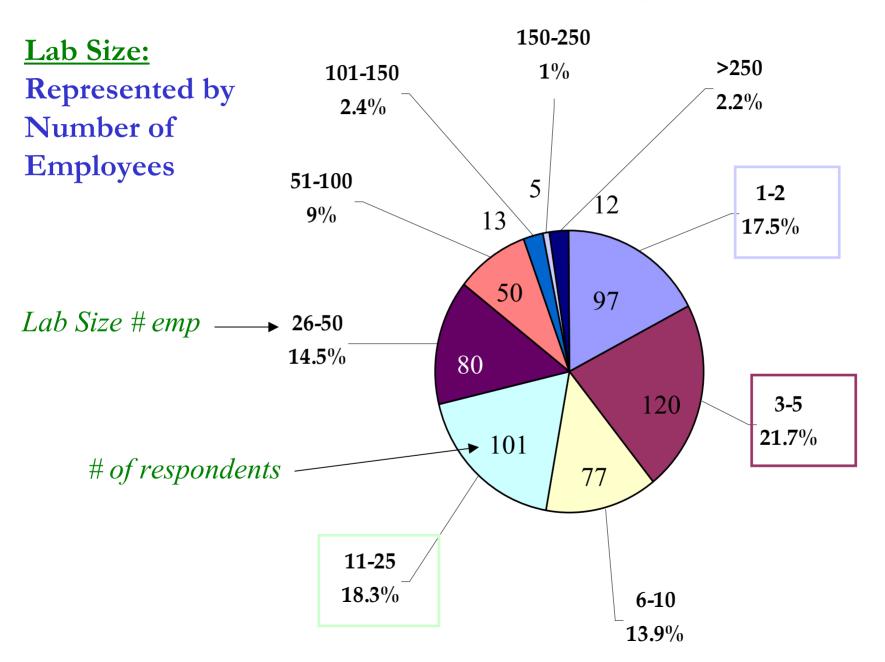
Respondents by Sector



Respondents by Title/Position

Position	# Responses
Quality	150
Lab Process/Production	73
Both Quality and Lab Process/Production	289
Other	41

Response Percentages



29 Other Certifications Identified (state agencies excluded)

- AACC
- AAFCO
- AALAC
- AIHA
- AOAC
- AOCS
- ASTA
- CALA
- CLEP, CLEA

- CLIA
- CLP Program
- EPA Crypto
- EPA Regional Cert.
- FDA
- FQSI
- Home Radon
- ISO 14001
- ISO 9001

- JMAFF
- MAP
- NFTA
- NRC
- NVLAP
- QEP
- QSTI
- SCC
- SWEDAC
- UK
- USDA

Category 1 GENERAL BENEFITS

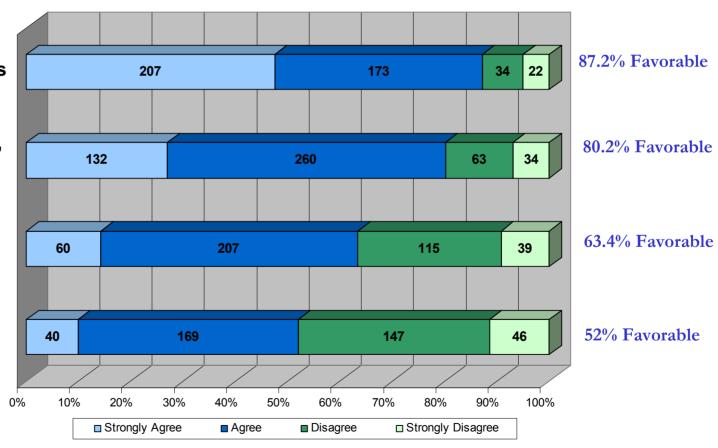
- Data Integrity, Ethics & Confidentiality
- Auditing
- Customer Service

Satisfied home state accred. requirements

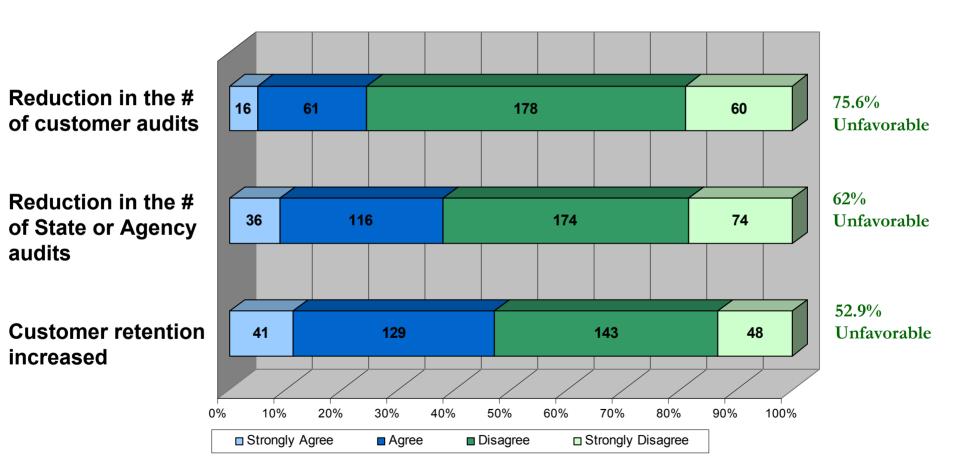
Implementation of a formal data integrity, ethics and conf. program

Improved customer service quality and satisfaction

Better customer service



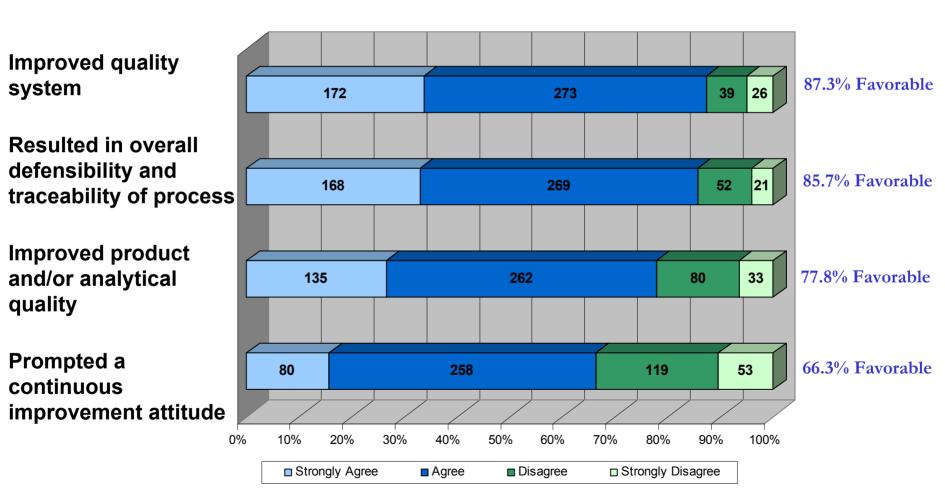
>60% of Labs Believe that NELAP has not reduced Customer or State/Agency Audits and do not believe that it has helped with customer retention.



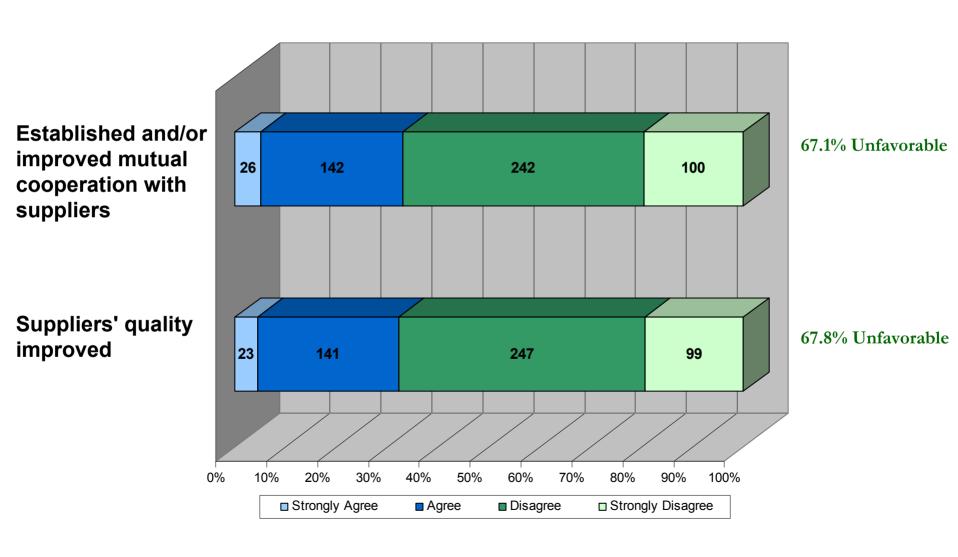
Category 2 **QUALITY BENEFITS**

- Analytical Quality
- Quality Systems
- Supplier Quality
- Continuous Improvement
- Defensibility/Traceability

>85% of Labs Believe that NELAP Improves Defensibility & Quality



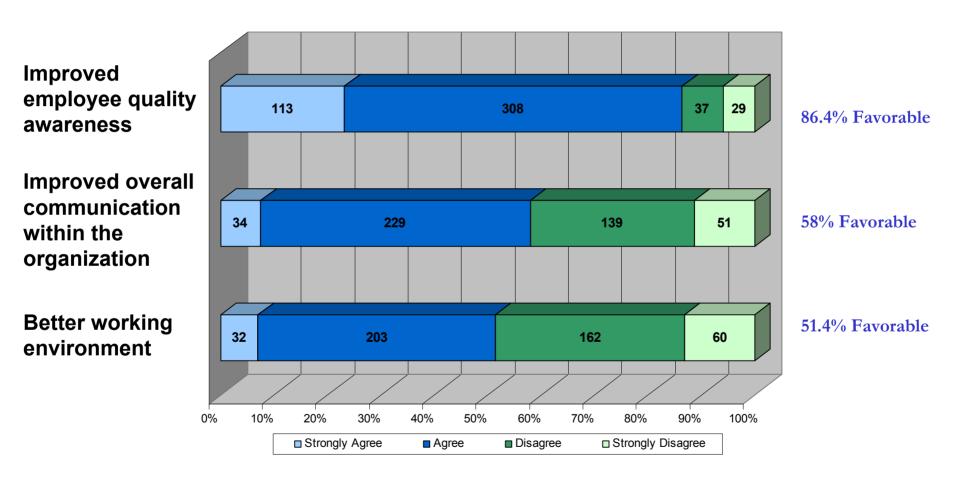
Labs Believe NELAP Does Not Improve the Supplier Relationship



Category 3 Organizational & Financial Benefits

- Workforce Motivation
- Organizational Communication
- Quality Awareness
- Profitability
- Cost and Overhead

"Organizational benefits are realized by NELAP labs"

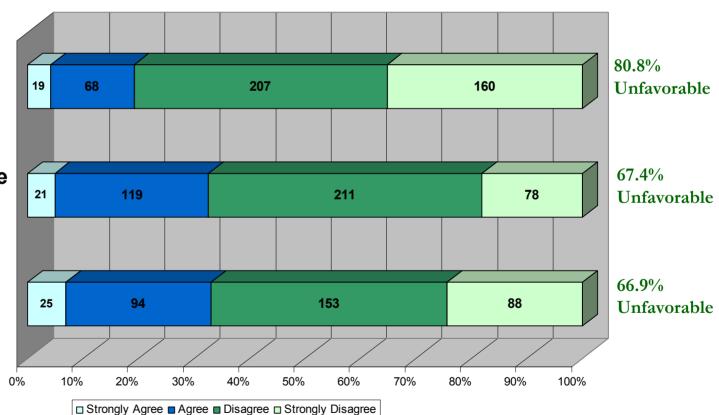


"Financial benefits are not realized"

Reduced internal costs and/or overhead

Increased workforce motivation and retention

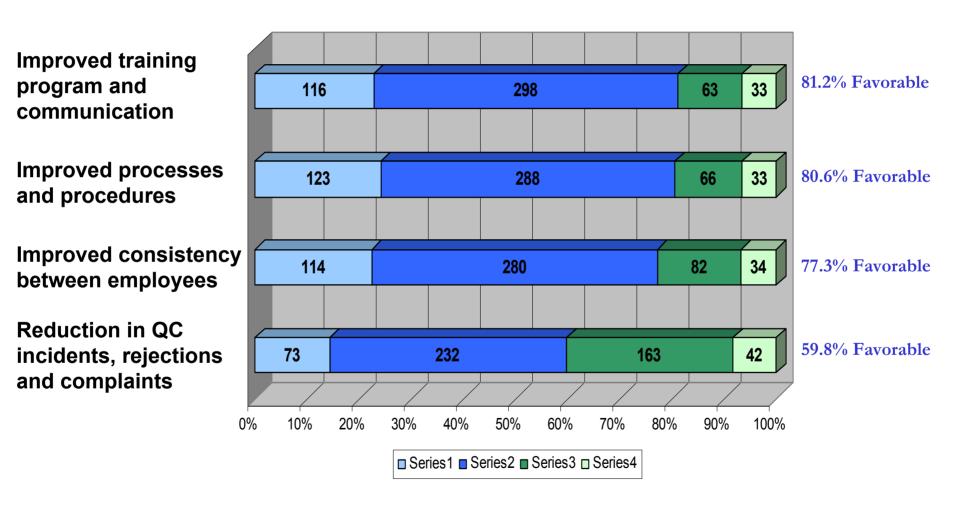
Improved profitability



Category 4 Process and Productivity

- Training
- Efficiency
- QC Rejections and Complaints
- Workforce Consistency
- Procedures

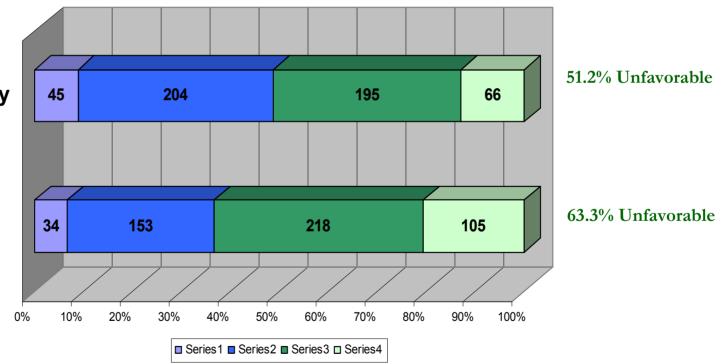
Communication, Consistency, and Improvement of Processes <u>Prove</u> to be a Universal Benefit of NELAP



Increased Productivity/Efficiency and Elimination of Redundancy <u>Does Not</u> Appear to be a Benefit

Increased productivity and/or efficiency

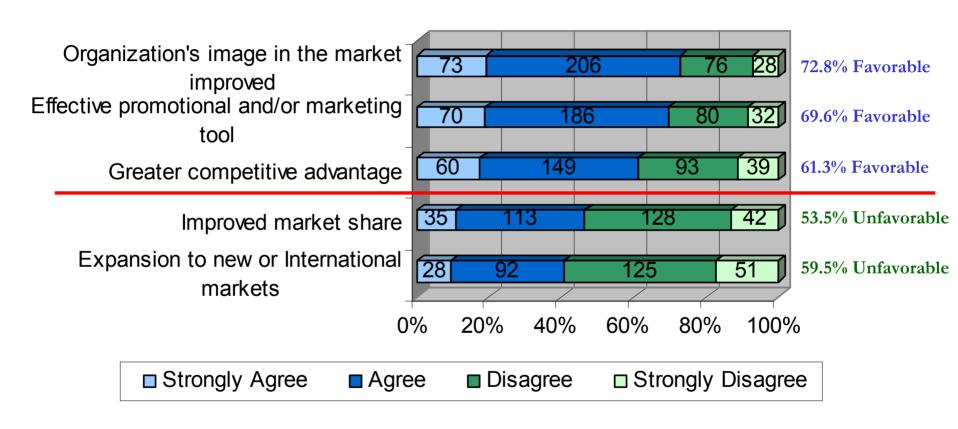
Elimination of redundancy or unnecessary work



Category 5 Marketing

- Image
- Promotional Impact
- Competition
- Expansion
- Market Share

Marketing Image and Competitiveness are a Plus.....Shows Little Benefit to Market Share Increase



Quality Systems

- Internal Audits
- Management Review
- Annual Review of Procedures
- Required Biennial Audits

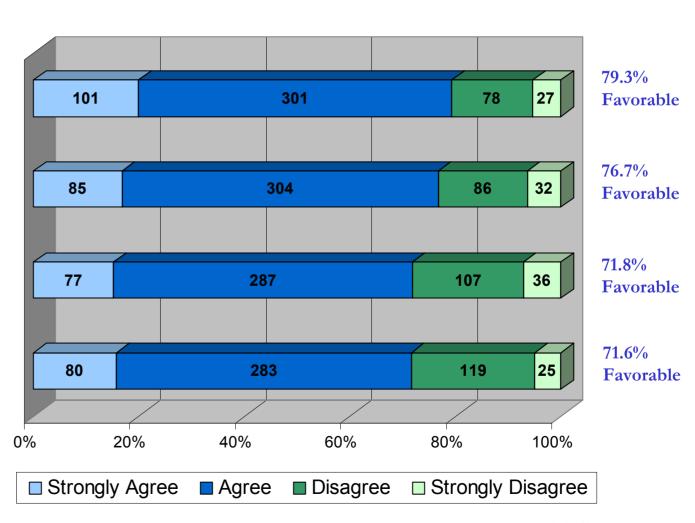
QUALITY SYSTEMS Returns an Overall FAVORABLE Rating of 75%

Annual internal audits reduced deficiencies and/or non-conformances

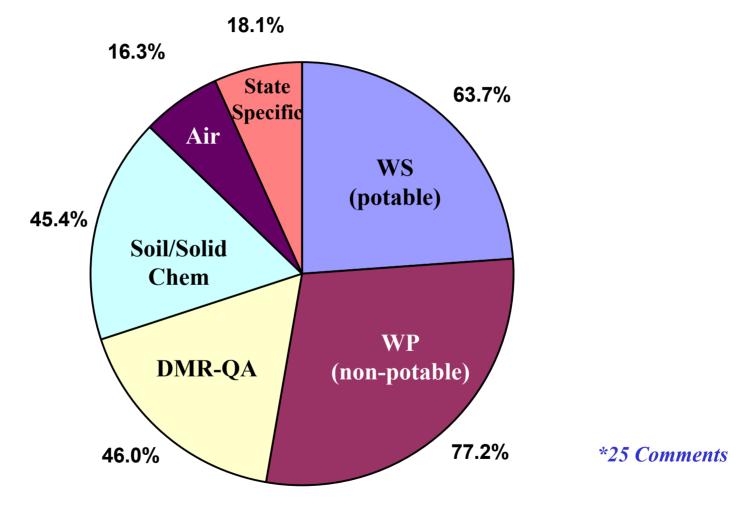
QS management review has increased managerial support and involvement

Annual review of procedures has increased accuracy in training of personnel

Required biennial audits improved identification of problems



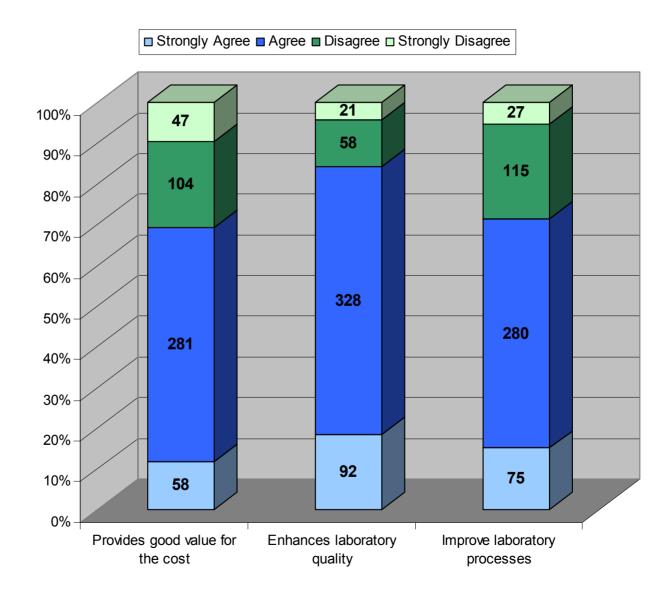
Performance Testing - Participation





PT Samples...

✓ The vast majority of NELAP labs believe that PT samples are important.



Favorable Responses

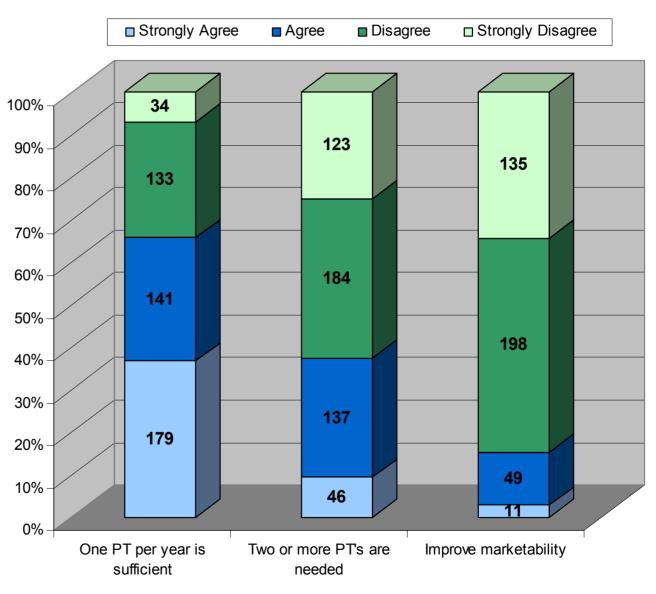
69.2%

84.2%

71.4%

PT Frequency

★Majority of ALL labs believe that 1 PT per year is sufficient and feel that PT's do not enhance marketability.



Favorable Responses

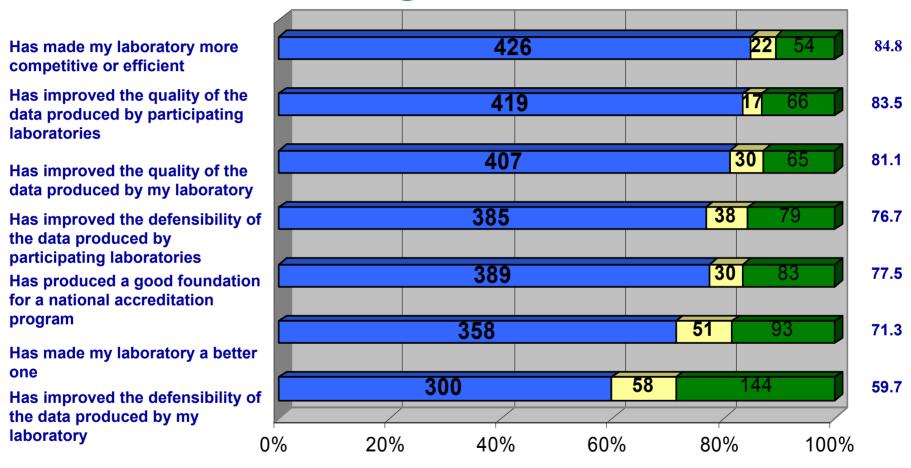
65.7%

37.3%

15.3%

NELAP Accreditation gets an overall approval

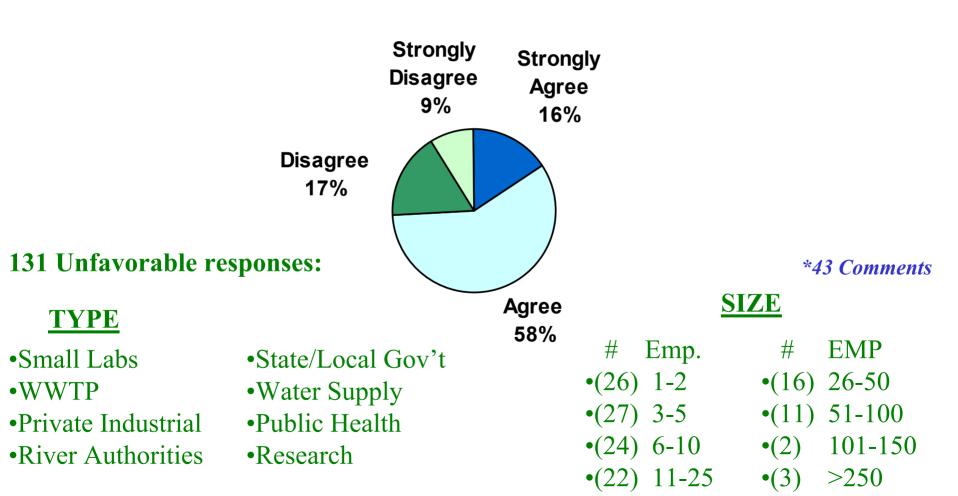
<u>rating of 76.4%</u>



[■] Rating 6 - 10 ■ Rating 5 "Neutral" ■ Rating 1 - 4

73.9% Believe that overall, the value received is justified by the Benefits

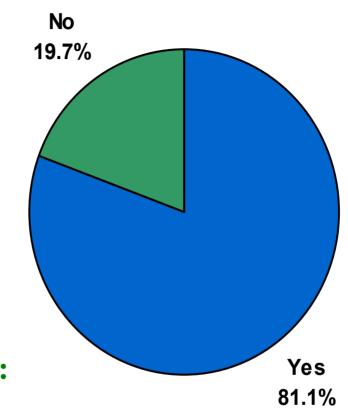
The additional cost to implement and maintain the quality program is justified by the overall benefits.



Future Recommendation by Current Labs

Survey question:

Would you recommend **NELAP** accreditation for other laboratories?



95 Unfavorable responses:

(91 Comments)

TYPE

- •36 Commercial •7 Research
- •21 Municipal
- •13 Water Supply •3- Private Ind.
- •5 Public Health •2 Other

- •8 Fed/St/Gov't

SIZE (#employees)

- •(19) 1-2 •(11) 26-50
- •(19) 3-5 •(9) 51-100
- •(13) 6-10 •(2) 101-150
- (20) 11-25
 - •(2) > 250

Final Comments on Laboratory Accreditation

143 Comments were submitted

Lab Size (# Employees)	# Comments	# of Unfavorable Ratings of <50% Effective
1 - 2	20	9
3 – 5	33	8
6 – 10	21	7
11 – 25	23	6
26 - 50	18	2
51 – 100	14	4
101 – 150	6	
150 - 250	2	
> 250	6	1
Total	143	37

DRAFT Results <u>All Comments Considered</u> 374 Total – From all Categories

#1

National Mandate

- Request for EPA Mandate
- Increased State Involvement
- Eliminate Dual Programs within states

#4

Uniformity

- Consistency among AB Auditing and Implementation of NELAP Standard
- Consistency among Method requirements

#2 (1 pt behind the #1 Comment)

2-Tier System

 Smaller, Limited Chem, Gov't and Specialty Labs need a scaled implementation program

#3

PT Frequency

- EPA and NELAP should be the same
- Too costly for smaller labs
- No PT's available for some analytes

#5

Fees – Too Costly

- Inconsistent across states and AB's.
- 2° Accred –should be administrative fees only

#6

Improved Data Confidence

- Ethics
- Legal defensibility
- Data integrity

Any Questions?

Thank you for attending!

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