

Great Lakes Regional Pollution Prevention Roundtable (GLRPPR) Needs Assessment Study

Final Analytic Report

Prepared by
Linda Owens
Sowmya Anand

July 2014
Study #1155

UIC Survey Research
UNIVERSITY OF ILLINOIS
AT CHICAGO **Laboratory**
COLLEGE OF URBAN PLANNING
& PUBLIC AFFAIRS

412 South Peoria Street, Sixth Floor
Chicago, Illinois 60607
312.996.5300 Fax 312.996.3358

505 East Green Street, Suite 3
Champaign, Illinois 61820
217.333.4273 Fax 217.244.4408

www.srl.uic.edu

© 2014 Board of Trustees of the University of Illinois

*The text and ideas contained in this document are the original work of the Survey Research Laboratory at the University of Illinois.
Any reproduction, in part or whole, should not be done without permission from the University of Illinois and the authors.*

Contents

| | |
|---|-----|
| List of Tables | ii |
| List of Figures | iii |
| Introduction | 1 |
| Demographic Profile of Respondents | 2 |
| Results | 4 |
| Information-Seeking Behaviors | 5 |
| Sources of Information | 7 |
| Barriers to Getting Information | 12 |
| Training Needs | 15 |
| | |
| Appendix A. Questionnaire | |
| Appendix B. Text of E-mail Invitation | |
| Appendix C. Full Text of Open-Ended Responses | |

Tables

| | |
|---|----|
| Table 1. Characteristics of Respondents | 2 |
| Table 2. Frequency with Which Respondents Seek Information on Pollution Prevention and Waste Reduction | 4 |
| Table 3. Reasons for Looking for Information on Pollution Prevention or Waste Reduction | 5 |
| Table 4. Specific Non-job Related Reasons for Looking for Information on Pollution Prevention and Waste Reduction | 5 |
| Table 5. Types of Information on Pollution Prevention or Waste Reduction Ever Tried to Find | 6 |
| Table 6. Types of Information on Pollution Prevention or Waste Reduction Most Likely to Need In Future | 6 |
| Table 7. Sources Used to Look for Information on Pollution Prevention and Waste Reduction | 8 |
| Table 8. Frequency with Which Sources of Information on Pollution Prevention and Waste Reduction Are Used | 9 |
| Table 9. Topics of Information on Pollution Prevention or Waste Reduction Accessed from GLRPPR Website | 11 |
| Table 10. Topics of Information on Pollution Prevention or Waste Reduction Searched for Most Recently by Respondent | 11 |
| Table 11. Issues Faced While Trying to Get Information | 12 |
| Table 12. Ratings of Usefulness of the Information Found by Respondents | 13 |
| Table 13. Topics on which Respondents Were Not Able to Find All Needed Information | 14 |
| Table 14. Issues Faced While Trying To Get Information During Most Recent Search | 14 |
| Table 15. Utility of Training to Respondents | 15 |
| Table 16. Topics on Which Training Would Be Useful | 15 |
| Table 17. Likelihood of Attending Training Sessions if Offered in a Variety of Formats | 16 |

Figures

| | |
|---|----|
| Figure 1. Sources Used to Look for Information on Pollution Prevention and Waste Reduction | 8 |
| Figure 2. Mean Frequency of Using Sources of Information on Pollution Prevention and Waste Reduction, by Frequency of Information Seeking | 10 |
| Figure 3. Whether Able to Find Information Needed on Pollution Prevention and Waste Reduction | 13 |

Introduction

The Survey Research Laboratory (SRL) at the University of Illinois assisted Principal Investigator Laura Barnes, Executive Director of the Great Lakes Regional Pollution Prevention Roundtable (GLRPPR), with a Web-based survey of GLRPPR members to evaluate their needs for information about pollution prevention and waste reduction and to what extent the organization's Web site (<http://www.glrppr.org>) meets those needs. This document describes the study methodology and presents the results of the study.

The primary project coordinator for the study was Dr. Sowmya Anand, who assisted with developing the study questionnaire, programming the instrument for online administration, and managing the data collection. The study protocol was submitted as an exempt protocol to the UIUC Institutional Review Board (IRB) for review and received approval on February 28, 2014 (IRB #14552). The IRB approved two minor modifications involving sending reminders via the GLRPPR listserv on March 26, 2014, and on April 16, 2014, respectively.

Questionnaire development and programming. The PI, together with Dr. Anand, drafted the questionnaire for the study. This draft along with the e-mail invitation and reminder scripts was reviewed by SRL's Questionnaire Review Committee (QRC), which is composed of SRL staff members appointed by the Director to ensure that all questionnaires administered by SRL follow ethical practices and basic principles of questionnaire construction. No instrument is administered to respondents before approval is obtained from this committee. Several changes to the instrument were suggested by the QRC and incorporated into the final version.

The final survey instrument was programmed by SRL for online administration using surveygizmo.com. The online instrument was tested by the PI and SRL staff March 11 and March 12, 2014.

Data collection. After the IRB approved the study protocol, the PI provided the sample file to SRL, which consisted of all 416 members of GLRPPR. The sample file contained names and e-mail addresses for 251 of the 416 cases, and only e-mail addresses for 165 of the 416 cases. Of the 251 cases with names, 8 records were duplicates in that they had the same first and last names with slightly different e-mail addresses (e.g., smith.jane@epa.gov versus smith.jane@epamail.epa.gov) and were deleted based on search of currently used email domain names. This resulted in a final sample of 243 cases with names and e-mail addresses and 165 without names, for a total of 408 cases.

E-mail invitations to the survey were sent out to the 408 potential respondents on March 13, 2014. Reminders were sent to nonrespondents on March 20, April 1, and on April 21, 2014, and the survey was closed to responses on May 7, 2014. In addition, two reminders to respond were sent to all respondents via the GLRPPR listserv on March 26 and on April 17. Of the 408 potential respondents, 65 completed the questionnaire; 3 completed through the question, "How often do you use [source] to look for information about pollution prevention or waste reduction issues?" and were counted as partially completed questionnaires; 6 respondents clicked on the link but did not complete the questionnaire; 331 never started the questionnaire; and 6 respondents unsubscribed; none of the e-mails sent bounced. As there are no known ineligible cases in the sample, the response rate is calculated as number completed/number of evites sent, which is 16.6% (68/408).¹

¹ Note that the sample with names and e-mail addresses yielded 64 completed questionnaires; the response rate for this subset is 26.3% (64/243).

Demographic Profile of Respondents

Respondents were asked several questions about their employment and personal profile, including their employment status, number of years interested in or working on pollution prevention and waste reduction issues, country and state of residence, and if employed, some details about their organization. Table 1 presents the profile of the respondents with respect to these demographic variables.

Table 1. Characteristics of Respondents

| CHARACTERISTIC | % | CHARACTERISTIC | % |
|---|------|---|------|
| Work status (n = 65) | | Type of organization for which you work (n = 64) | |
| Working full time | 86.2 | Private company | 7.8 |
| Working part time | 12.3 | Nonprofit organization | 7.8 |
| In school | 1.5 | Federal government or government agency | 12.5 |
| Number of years working on or interested in pollution prevention/waste reduction issues (n = 64) | | Regional government or government agency | 1.6 |
| Less than 1–5 years | 28.1 | Local government or government agency | 4.7 |
| 6–10 years | 17.2 | State government or government agency | 45.3 |
| 11–15 years | 12.5 | Four-year college or university | 12.5 |
| 16–20 years | 15.6 | Other (specify) ² | 7.8 |
| 20+ years | 26.6 | Number of people who work in your organization at all locations (n = 59) | |
| In which country do you reside? (n = 65) | | 1 to 20 | 15.3 |
| United States of America | 96.9 | 21 to 600 | 23.7 |
| Canada | 3.1 | 601 to 1000 | 28.8 |
| State in which work or reside (U.S. residents only; n = 61) | | 1001 to 3000 | 22.0 |
| Arizona | 1.5 | 10,000+ | 6.8 |
| Colorado | 1.5 | Other response ³ | 3.4 |
| District of Columbia | 3.1 | | |
| Hawaii | 1.5 | | |
| Illinois | 20.0 | | |
| Indiana | 6.2 | | |
| Massachusetts | 1.5 | | |
| Michigan | 13.8 | | |
| Minnesota | 15.4 | | |
| Mississippi | 1.5 | | |
| Nebraska | 1.5 | | |
| New York | 6.2 | | |
| Ohio | 7.7 | | |
| Oregon | 1.5 | | |
| Virginia | 1.5 | | |
| Washington | 3.1 | | |
| Wisconsin | 6.2 | | |

² The types of organizations specified were as follows: Federal Government Contractor, a radio station and a public library, public manufacturer of exhaust emission equipment, publicly traded large US company, and Tribal Government.

³ The response format for this question was open-ended. Other responses provided were as follows: “Many” and “Private.”

Analysis Methods. The questionnaire consisted of questions using several different types of response options.

- Six questions addressing types of information needs, information ever tried to find, and similar were asked using a check-all-that-apply format in which respondents were presented a list of options and asked to select all applicable options.
- Nine questions used five-point scale response options; the scales ranged from “never” to “extremely often,” “not at all useful” to “extremely useful,” and “not at all likely” to “extremely likely,” while a few had other rating scales, such as “not at all easy” to “extremely easy.”
 - Regardless of the response options, the variables range in value from 1 to 5, with 1 indicating the lowest or least favorable response (e.g., “never” or “not at all useful”) while 5 indicates the highest or most favorable response option (e.g., “extremely often” or “extremely useful”).
 - In the overall frequencies presented for these items, which include all respondents, these variables are presented as originally coded, with the percent selecting each category displayed as well as the overall mean on the item (the higher the mean, the better the rating).
 - There were also two yes-no type questions asking respondents if they looked for information for work-related purposes and if they were able to find the information they needed when they looked for it.
 - Finally, there were three open-ended questions asking respondents about the topics on which they were looking for information, the topics on which they were unable to find information, and the topics on which they are interested in training opportunities.

Results

The first question on the questionnaire asked how often respondents looked for information about pollution prevention or waste reduction. The majority of the respondents to this survey—58.8%— reported looking for information “very” or “extremely” often, 38.2% reported looking for information “moderately” often, and only 2.9% reported looking for information “rarely” (see Table 2).

As information needs might be expected to vary with the frequency with which information is sought, results are presented for all respondents and broken out by information-seeking frequency wherever relevant. Respondents who reported seeking information “very” or “extremely” often were combined into a category labeled “Frequent information seekers,” and because the number of respondents who report seeking information “rarely” is so small, this category has been combined with those who reported seeking “moderately” and the combined category is labeled “Nonfrequent information seekers.”

Information-Seeking Behaviors

Table 2 shows the percentage of respondents who looked for information on pollution prevention and waste reduction for job-related or other reasons, for all respondents and split by frequency of information seeking. Respondents could choose all options that were applicable to them; as there were only two response options, we coded the

Table 2. Frequency with Which Respondents Seek Information on Pollution Prevention and Waste Reduction (n = 68)

| Responses | % |
|-----------------|------|
| Rarely | 2.9 |
| Sometimes | 38.2 |
| Often | 42.6 |
| Extremely often | 16.2 |

resulting responses into three categories: (1) those selecting “part of job duties” only, (2) those selecting “some other reason” only, and (3) those selecting both options

Table 3. Reasons for Looking for Information on Pollution Prevention or Waste Reduction (n = 68)

| REASON | Total (n = 68) % | By frequency of information seeking | |
|---|------------------------|-------------------------------------|------------------------------|
| | | Frequent (n = 40) % | Nonfrequent (n = 28) % |
| As part of job duties | 64.7 | 60.0 | 71.4 |
| For some other reason | 4.4 | 5.0 | 3.6 |
| As part of job duties and for some other reason | 30.9 | 35.0 | 25.0 |

Table 4. Specific Non-Job Related Reasons for Looking for Information on Pollution Prevention and Waste Reduction (n = 21)

| Themes | # of mentions |
|--|---------------|
| Reducing pollution, toxics at home | 4 |
| Interest in personal or public health issues | 4 |
| Curiosity about or interest in the field, up-to-date information | 8 |
| Building projects; Lawn, garden & fruit tree care | 3 |
| Care about the environment | 7 |
| Other | 5 |

The 24 respondents who indicated that they looked for information on pollution prevention and waste reduction topics for non-job related reasons were asked to specify the reason(s). Three of the twenty-four did not respond to this follow up question. We categorized the responses from the 21 respondents into several commonly occurring themes that were evident. Table 4 summarizes these themes and the number of mentions for each. Each respondent’s comments could be classified into a single theme if it mentioned only one, or into multiple themes if more than one was touched upon. Therefore the number of mentions listed for each theme will sum up to more than the number of respondents across themes. The detailed responses are provided in Appendix C.

Table 5 summarizes the responses provided when respondents were asked about the pollution prevention and waste reduction topics on which they had looked up information in the past.

Table 5. Types of Information on Pollution Prevention or Waste Reduction Ever Tried To Find (n = 68)

| Responses | Total (n = 68) % | By frequency of information seeking | |
|--|------------------------|-------------------------------------|------------------------------|
| | | Frequent (n = 40) % | Nonfrequent (n = 28) % |
| Information related to pollution prevention or waste reduction | 80.9 | 92.5 | 64.3 |
| Case studies/success stories | 79.4 | 85.0 | 71.4 |
| Toxics reduction | 76.5 | 82.5 | 67.9 |
| Chemical substitution/alternatives | 73.5 | 82.5 | 60.7 |
| Environmental news | 69.1 | 77.5 | 57.1 |
| Regulatory compliance | 61.8 | 72.5 | 46.4 |
| Upcoming training opportunities in pollution prevention | 51.5 | 67.5 | 28.6 |
| Upcoming funding opportunities in pollution prevention | 41.2 | 52.5 | 25 |
| Employee engagement/behavior change | 38.2 | 42.5 | 32.1 |
| Other | 7.4 | 12.5 | — |

Table 6. Types of Information on Pollution Prevention or Waste Reduction Most Likely To Need in Future (n = 68)

| Responses | Total (n=68) % | By frequency of information seeking | |
|--|----------------------|-------------------------------------|----------------------------|
| | | Frequent (n=40) % | Nonfrequent (n=28) % |
| Information related to pollution prevention or waste reduction | 74.6 | 82.5 | 63.0 |
| Case studies/success stories | 71.6 | 70 | 74.1 |
| Chemical substitution/alternatives | 68.7 | 72.5 | 63.0 |
| Toxics reduction | 67.2 | 75 | 55.6 |
| Environmental news | 52.2 | 50 | 55.6 |
| Regulatory compliance | 46.3 | 47.5 | 44.4 |
| Upcoming training opportunities in pollution prevention | 41.8 | 55.0 | 22.2 |
| Employee engagement/behavior change | 38.8 | 42.5 | 33.3 |
| Upcoming funding opportunities in pollution prevention | 32.8 | 40.0 | 22.2 |
| Other | 6.0 | 10.0 | — |

And, Table 6 summarizes the responses provided when respondents were asked about the pollution prevention and waste reduction topics which they are most likely to look up in the future.

The topics in Tables 5 and 6 have been listed in order of most to least searched for, and most to least likely to need in future, respectively. There is not much difference between the two lists. Most respondents have looked for information on pollution prevention or waste reduction issues and on case studies/success stories and most are likely to look up information on these topics in the future. Employee engagement/behavior change and upcoming funding opportunities in pollution prevention are topics on which the least number of respondents have looked up information in the past, and on which the least number anticipated needing information in the future.

Sources of Information

To find the information they need, respondents report relying on various sources as depicted in Figure 1. General online search engines are the most popular source of information, followed by the EPA website. Over half—59%—of the respondents use the GLRPPR Web site to source information; more nonfrequent information seekers report using the Web site than do frequent information seekers (see Table 7).

Figure 1. Sources Used to Look for Information on Pollution Prevention and Waste Reduction (n = 68)

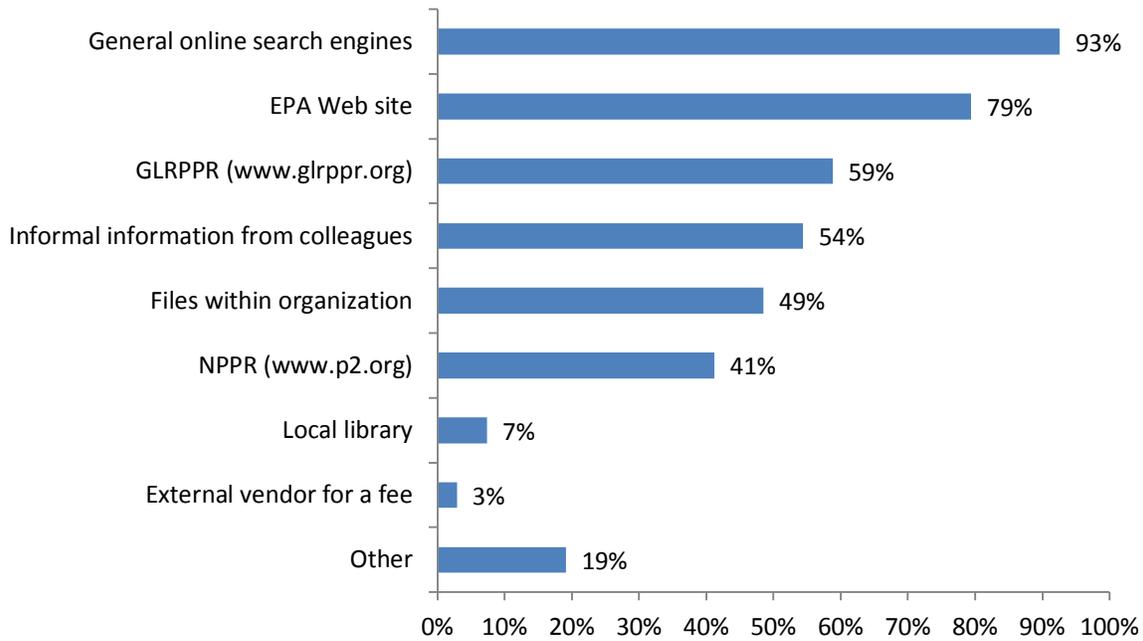


Table 7. Sources Used to Look for Information on Pollution Prevention and Waste Reduction (n = 68)

| Responses | By frequency of information seeking | |
|--|-------------------------------------|------------------------------|
| | Frequent (n = 40) % | Nonfrequent (n = 28) % |
| General online search engines | 97.5 | 85.7 |
| EPA Website | 87.5 | 67.9 |
| Great Lakes Regional Pollution Prevention Roundtable Web site (www.glrppr.org) | 55.0 | 64.3 |
| Information informally obtained from colleagues or peers | 52.5 | 57.1 |
| Files available within your company/organization | 47.5 | 50.0 |
| National Pollution Prevention Roundtable Web site (www.p2.org) | 37.5 | 46.4 |
| Your local library | 5.0 | 10.7 |
| An external vendor for a fee | 5.0 | — |
| Other | 25.0 | 10.7 |

The information sources specified by those who selected the “other” option are as follows, reported separately for frequent and nonfrequent information seekers:

- Frequent seekers:
 - Environmental publications and newsletters, FedCenter, free vendor info, serdp.org, tech blogs, greenbiz, GLPPR newsletter, Grant monies for air quality through DERA or CMAQ, P2 Info House, PPRC, State Regulatory Programs (1 mention each)
 - Pollution Prevention Resource Exchange - P2Rx (3 mentions)
- Nonfrequent seekers: Industry Associations, local technical assistance/P2 provider – MNTAP, sustainability resources (1 mention each)

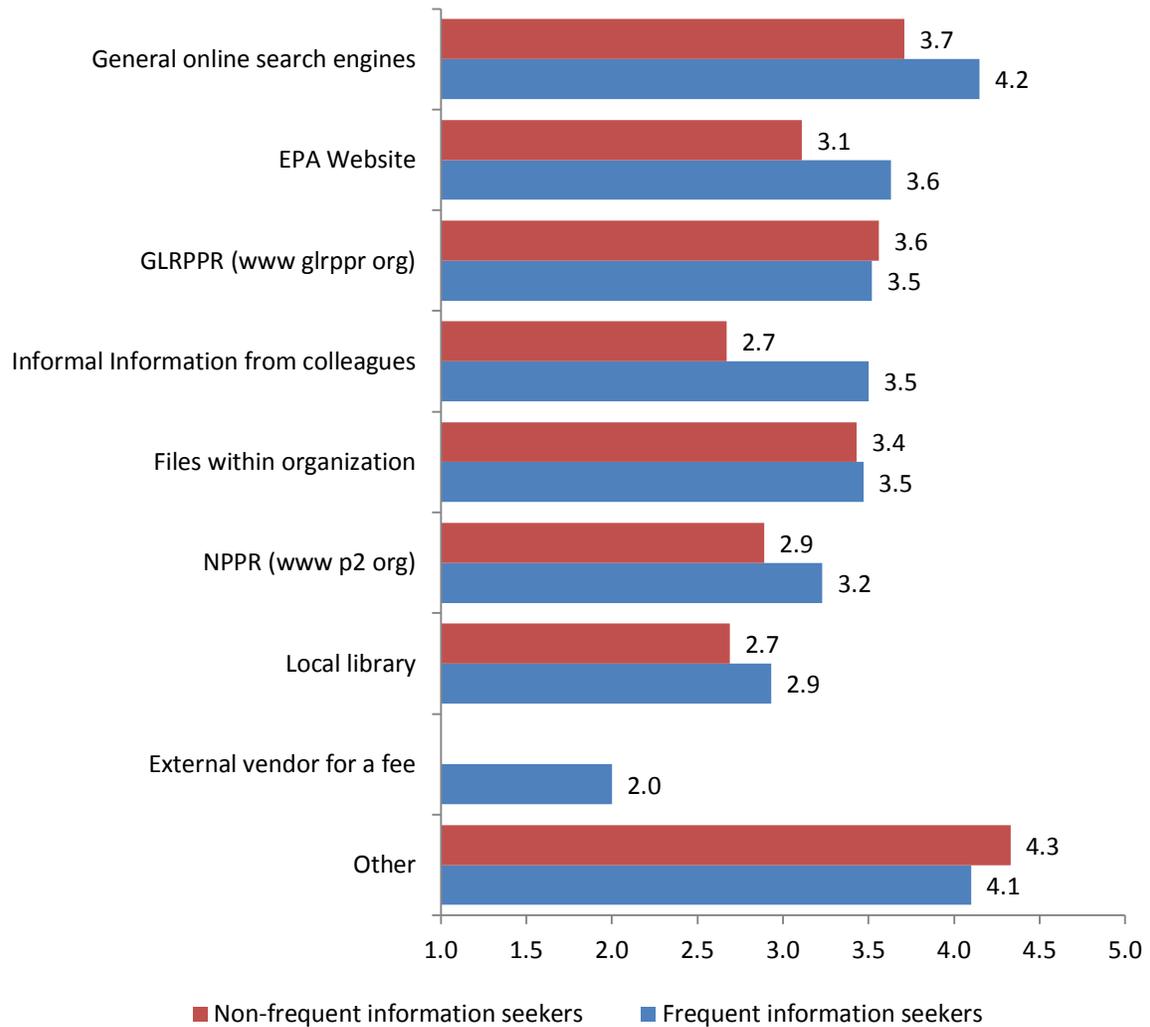
The frequency with which each source specified by respondents is used, is as follows:

Table 8. Frequency with Which Sources of Information on Pollution Prevention and Waste Reduction Are Used (*n* = 68)

| Item wording | Never | Rarely | Sometimes | Often | Extremely often | Mean |
|---|-------|--------|-----------|-------|-----------------|------|
| General online search engines (<i>n</i> = 63) | — | 3.2% | 28.6% | 34.9% | 33.3% | 3.98 |
| Information informally obtained from colleagues or peers (<i>n</i> = 37) | 2.7% | 2.7% | 43.2% | 40.5% | 10.8% | 3.54 |
| Files available within your company/ organization (<i>n</i> = 33) | — | 9.1% | 42.4% | 42.4% | 6.1% | 3.45 |
| EPA Web site (<i>n</i> = 54) | — | 7.4% | 46.3% | 40.7% | 5.6% | 3.44 |
| GLRPPR Web site (www.glrppr.org) (<i>n</i> = 40) | — | 20.0% | 52.5% | 27.5% | — | 3.08 |
| Your local library (<i>n</i> = 5) | — | 20.0% | 60.0% | 20.0% | — | 3.00 |
| NPPR Web site (www.p2.org) (<i>n</i> = 28) | — | 35.7% | 46.4% | 17.9% | — | 2.82 |
| An external vendor for a fee (<i>n</i> = 2) | 50.0% | — | 50.0% | — | — | 2.00 |
| Other sources (<i>n</i> = 13) | — | — | 7.7% | 69.2% | 23.1% | 4.15 |

The differences in mean frequency of use between frequent and nonfrequent information seekers are shown in Figure 2.

Figure 2. Mean Frequency of Using Sources of Information on Pollution Prevention and Waste Reduction, by Frequency of Information Seeking



Respondents who said they used GLRPPR as a source for information on pollution prevention and waste reduction topics were asked about the information topics they have accessed from the GLRPPR website in the past. Topic hubs are accessed by the majority of those who use the GLRPPR website, while the help desk librarian is used the least.

Table 9. Topics of Information on Pollution Prevention or Waste Reduction Accessed from GLRPPR Website

| Responses | Total (n=40) % | By frequency of information seeking | |
|--------------------------------------|----------------------|-------------------------------------|-----------------------------|
| | | Frequent (n=22) % | Non-frequent (n=18) % |
| Topic hubs | 72.5 | 77.3 | 66.7 |
| Sector resources | 57.5 | 63.6 | 50.0 |
| News | 52.5 | 50.0 | 55.6 |
| Links to other regional P2Rx centers | 52.5 | 59.1 | 44.4 |
| GLRPPR Contacts Directory | 27.5 | 27.3 | 27.8 |
| Event calendar | 27.5 | 22.7 | 33.3 |

| | | | |
|---|------|------|------|
| Link to P2 results database | 22.5 | 13.6 | 33.3 |
| Funding opportunities | 20.0 | 18.2 | 22.2 |
| Help Desk Librarian/P2Rx Rapid Response | 15.0 | 18.2 | 11.1 |
| Other (specify) | 5.0 | 9.1 | — |

Respondents who selected the “other” option specified that they had used the website to look for case studies on chemical substitution and to use the search feature.

Respondents were also asked to recall the last time that they had tried to find information about pollution prevention or waste reduction, and to list the topic(s) on which they had looked for information on this occasion. Their responses to this open-ended question are summarized in Table 10 below. Fifty-eight respondents answered this question, of which thirty-four were frequent information seekers and twenty-four were non-frequent information seekers. We categorized the responses from the 58 respondents into several commonly occurring themes that were evident. Table 10 summarizes these themes and the number of mentions for each. Each respondent’s comments could be classified into a single theme if it mentioned only one, or into multiple themes if more than one was touched upon. Therefore the number of mentions listed for each theme will sum up to more than the number of respondents across themes. The detailed responses are provided in Appendix C.

Table 10. Topics of Information on Pollution Prevention or Waste Reduction Searched for Most Recently by Respondent

| Responses | By frequency of information seeking | | |
|------------------------------------|-------------------------------------|--------------------|------------------------|
| | Total (n=58) | Frequent (n=34) | Non-frequent (n=24) |
| | Number of mentions | | |
| Disposal, recycling, reuse methods | 12 | 8 | 4 |
| Green chemistry, green purchases | 11 | 10 | 1 |
| Alternate sources, substitutions | 8 | 4 | 4 |
| Toxics reduction | 7 | 5 | 2 |
| Waste reduction | 7 | 4 | 3 |
| Regulations, policy | 5 | 3 | 2 |
| Compost, composting | 4 | 2 | 2 |
| Pertaining to industry | 3 | 1 | 2 |
| Training, webinar, conferences | 3 | 2 | 1 |
| Case studies | 2 | 1 | 1 |
| Best practices | 2 | 1 | 1 |
| Recognition programs | 2 | 2 | 0 |
| Unable to remember | 2 | 0 | 2 |
| Other | 13 | 11 | 3 |

Barriers to getting information

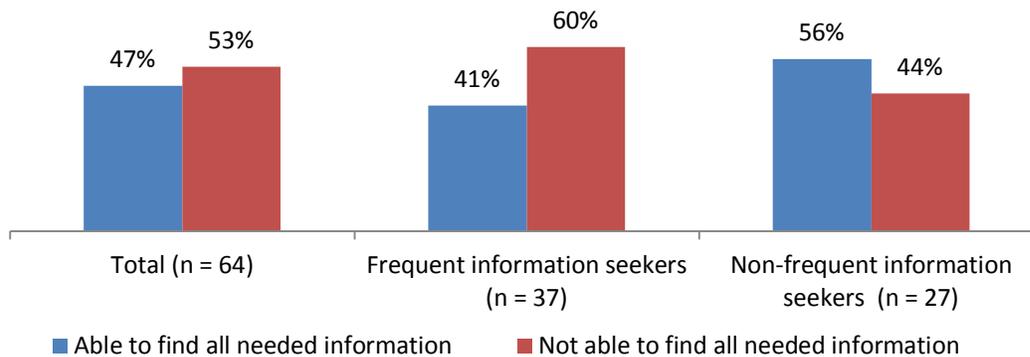
Respondents report facing the following issues while trying to find the information they need. Not being able to find information on current topics of interest is the reason selected by the largest percentage of respondents, and

Table 11. Issues Faced While Trying To Get Information

| Responses | By frequency of information seeking | | |
|---|-------------------------------------|-------------------------|-----------------------------|
| | Total (n=68) % | Frequent (n=40) % | Non-frequent (n=28) % |
| Could not find information on current topics of interest | 49.3 | 56.4 | 39.3 |
| Incomplete information on a topic | 40.3 | 43.6 | 35.7 |
| Too much information to sift through | 37.3 | 46.2 | 25 |
| Lack of good quality information | 34.3 | 41 | 25 |
| Experienced no issues | 25.4 | 17.9 | 35.7 |
| No information on whom to contact when you cannot find the information you need | 19.4 | 28.2 | 7.1 |
| Other (please specify) | 13.4 | 20.5 | 3.6 |

When asked to recall the last time that they had tried to find information about pollution prevention or waste reduction, a little over half of all respondents (53.1%, n = 64) indicated that they were unable to find all the information they needed; this number was higher for the frequent information seeking group (see Figure 3).

Figure 3. Whether or not able to find information needed on pollution prevention and waste reduction



Those who reported being able to find all the needed information were asked a follow-up question that asked them to rate the usefulness of the information they found. The mean rating for all respondents is 3.63, which is between “moderately” to “very” useful (see Table 12). The rating of usefulness is higher for non-frequent information seekers as compared to frequent information seekers.

Table 12. Ratings of Usefulness of the Information Found by Respondents

| Responses | By frequency of information seeking | | |
|-------------------|-------------------------------------|-------------------------|-----------------------------|
| | Total (n=30) % | Frequent (n=15) % | Non-frequent (n=15) % |
| Moderately useful | 40.0 | 46.7 | 33.3 |

| | | | |
|--------------------|-------------|-------------|-------------|
| Very useful | 56.7 | 53.3 | 60.0 |
| Extremely useful | 3.3 | — | 6.7 |
| Mean rating | 3.63 | 3.53 | 3.73 |

Those who reported being unable to find all the needed information were asked a different follow-up question about the topics on which they were not able to find all the needed information. Thirty of the thirty-four respondents provided a response to this open-ended question. Responses have been categorized into themes; the themes and the number of mention for each are listed in Table 13 below.

Table 13. Topics on which Respondents Were Not Able To Find All Needed Information

| Responses | By frequency of information seeking | | |
|---|-------------------------------------|--------------------|------------------------|
| | Total (n=30) | Frequent (n=11) | Non-frequent (n=19) |
| | Number of mentions | | |
| Specific substance, chemical, item, topic | 4 | 2 | 2 |
| Regulations, policy | 4 | 2 | 2 |
| Analytic tools, metrics | 3 | 2 | 1 |
| Alternate sources, substitutions | 2 | 1 | 1 |
| Incomplete information | 2 | 1 | 1 |
| Waste reduction, recycling | 2 | 1 | 1 |
| Best practices, program related information | 2 | 2 | 0 |
| New technologies, methods, up-to-date information | 2 | 2 | 0 |
| Renewable energy | 1 | 0 | 1 |
| Examples, case studies | 1 | 0 | 1 |
| Funding opportunities | 1 | 1 | 0 |
| Training | 1 | 1 | 0 |
| None | 2 | 1 | 1 |
| Other | 4 | 3 | 1 |

Finally, all respondents were asked about the issues they had experienced, if any, during their most recent attempt to find information relevant to pollution prevention and waste reduction. The top two issues that respondents selected was incomplete information on topics and lack of good quality information (see Table 14).

Table 14. Issues Faced While Trying To Get Information During Most Recent Search

| Responses | By frequency of information seeking | | |
|---|-------------------------------------|--------------------|------------------------|
| | Total (n=68) | Frequent (n=40) | Non-frequent (n=28) |
| | % | % | % |
| Incomplete information on a topic | 66.7 | 79.2 | 33.3 |
| Lack of good quality information | 48.5 | 45.8 | 55.6 |
| Too much information to sift through | 33.3 | 29.2 | 44.4 |
| No information on whom to contact when you cannot find the information you need | 30.3 | 37.5 | 11.1 |
| Other issues (please specify) | 15.2 | 12.5 | 22.2 |

The other issues faced by respondents were as follows:

- Blocked by agency web filter
- Great info; just not entirely applicable to our situation
- Need insight on timing for grants for clean air, retrofit of older diesel engine DPF
- Search engine results produced a lot a vendor information

Training needs

In the last section of the questionnaire, respondents were asked about their training needs. Respondents rated the utility of training sessions or seminars on issues of pollution prevention or waste reduction to themselves (Table 15). The mean rating was 3.21, which corresponds to a “moderately” useful rating. About a third of all respondents rated training as potentially “very” or “extremely” useful to themselves. This varied by frequency of information seeking behavior; as one would expected frequent information seekers rated training as more useful than did non-frequent information seekers.

Table 15. Utility of Training To Respondents

| Item wording | n | Not useful at all | Slightly useful | Moderately useful | Very useful | Extremely useful | Mean |
|---|----|-------------------|-----------------|-------------------|-------------|------------------|------|
| If training sessions or seminars were to be offered on issues of pollution prevention or waste reduction, how useful would these be to you? | | | | | | | |
| All respondents | 63 | 7.9% | 11.1% | 42.9% | 28.6% | 9.5% | 3.21 |
| Frequent information seekers | 37 | 5.4% | 8.1% | 37.8% | 32.4% | 16.2% | 3.46 |
| Non-frequent information seekers | 26 | 11.5% | 15.4% | 50.0% | 23.1% | | 2.85 |

Respondents who rated the utility of training as something other than “not at all useful” were asked to list up to six topics which would be of use to them if covered during training. The topics spontaneously mentioned by respondents and the number of topics for each is summarized in Table 16. Detailed responses are in Appendix C.

Table 16. Topics on Which Training Would Be Useful

| Responses | By frequency of information seeking | | |
|--|-------------------------------------|-----------------|---------------------|
| | Total (n=68) | Frequent (n=40) | Non-frequent (n=28) |
| | Number of mentions | | |
| Waste, waste reduction, recycling, disposal | 25 | 17 | 8 |
| Alternates, substitutions, alternate assessments | 16 | 9 | 7 |
| Case Studies, Best practices, techniques | 13 | 10 | 3 |
| Measurement tools, Data, analytics | 11 | 9 | 2 |
| New technologies, methods | 10 | 9 | 1 |
| Toxics, toxic reduction, emission reduction | 9 | 6 | 3 |
| Green chemistry | 8 | 5 | 3 |
| Pertaining to industry | 8 | 6 | 2 |
| Regulations, policies, compliance | 7 | 5 | 2 |
| Behavior change, engagement | 6 | 4 | 2 |
| Financing, funding | 6 | 6 | 0 |

| | | | |
|----------------------|----|----|---|
| Energy related | 5 | 4 | 1 |
| Other green topics | 4 | 2 | 2 |
| Life cycle | 4 | 4 | 0 |
| Advanced information | 3 | 2 | 1 |
| Source reduction | 3 | 3 | 0 |
| Basic information | 1 | 1 | 0 |
| Other | 30 | 26 | 4 |

And, finally, respondents were asked to rate their likelihood of participating in a training seminar about pollution prevention or waste reduction if it was offered in a variety of formats (see Table 17). The webinar and online training taken at one’s own pace were the most popular options (mean ratings = 3.84 and 3.28, respectively, for all respondents); even so the mean likelihood ratings for taking part in training offered in these formats are less than 4.0 (“very likely”). Frequent information seekers report greater likelihood of taking part in trainings in all formats as compared to non-frequent information seekers.

None of the other format options yield a likelihood of taking part that is high or even moderate.

Table 17. Likelihood of Attending Training Sessions if Offered in a Variety of Formats

| Item wording | n | Not at all likely | Slightly likely | Moderately likely | Very likely | Extremely likely | Mean |
|--|----|-------------------|-----------------|-------------------|-------------|------------------|------|
| How likely would you be to participate in a training seminar about pollution prevention or waste reduction if it was offered...as a webinar | | | | | | | |
| All respondents | 58 | 1.7 | 6.9 | 24.1 | 39.7 | 27.6 | 3.84 |
| Frequent information seekers | 35 | 2.9 | 2.9 | 20 | 37.1 | 37.1 | 4.03 |
| Non-frequent information seekers | 23 | | 13 | 30.4 | 43.5 | 13 | 3.57 |
| ...As an in-person workshop | | | | | | | |
| All respondents | 58 | 24.1 | 41.4 | 22.4 | 8.6 | 3.4 | 2.26 |
| Frequent information seekers | 35 | 22.9 | 42.9 | 20 | 8.6 | 5.7 | 2.31 |
| Non-frequent information seekers | 23 | 26.1 | 39.1 | 26.1 | 8.7 | | 2.17 |
| ...At a conference | | | | | | | |
| All respondents | 58 | 13.8 | 39.7 | 29.3 | 13.8 | 3.4 | 2.53 |
| Frequent information seekers | 35 | 8.6 | 42.9 | 31.4 | 11.4 | 5.7 | 2.63 |
| Non-frequent information seekers | 23 | 21.7 | 34.8 | 26.1 | 17.4 | | 2.39 |
| ...As an online training course, which includes tests or quizzes and is scheduled at a specific time | | | | | | | |
| All respondents | 57 | 14 | 22.8 | 40.4 | 19.3 | 3.5 | 2.75 |
| Frequent information seekers | 35 | 14.3 | 17.1 | 45.7 | 20 | 2.9 | 2.80 |
| Non-frequent information seekers | 22 | 13.6 | 31.8 | 31.8 | 18.2 | 4.5 | 2.68 |
| ...As an online training course, which includes tests or quizzes, taken at your own pace | | | | | | | |
| All respondents | 57 | 7 | 10.5 | 42.1 | 28.1 | 12.3 | 3.28 |
| Frequent information seekers | 34 | 5.9 | 11.8 | 35.3 | 32.4 | 14.7 | 3.38 |
| Non-frequent information seekers | 23 | 8.7 | 8.7 | 52.2 | 21.7 | 8.7 | 3.13 |

Appendix A

Questionnaire

GLRPPR Information Needs Survey

Welcome

As a member of GLRPPR it is very likely that you have used the services and information offered by the organization. We would like to know from members like you how we can do better at serving your information needs. Your input will be helpful as we improve our website design and resources offered.

We are asking for your help in completing this online questionnaire and providing your feedback. While there is no compensation for participating in this study, we value your input and hope that you can devote approximately 15 minutes of your time to answer the questions.

You must be 18 years or older to participate in this research study. Participation is voluntary and you are free to stop answering questions at any time. The decision to participate, decline, or withdraw from participation will have no effect on your status at or future relations with GLRPPR. The information you provide will be completely confidential and will only be reported as aggregated group data. There are no known risks associated with participating in this study beyond those experienced in everyday life. Your participation will likely benefit others by suggesting areas for improvement.

To protect the confidentiality of your responses, the Survey Research Laboratory (SRL) at the University of Illinois is managing the administration of this survey. SRL will not provide GLRPPR with any personal, identifying information.

If you have any questions about this survey, please contact Sowmya Anand at (217) 333 2219 or via email at sanand@illinois.edu. You can also contact me; details are below. If you have any concerns about the study or questions about your rights as a research participant, you can contact the University of Illinois Institutional Review Board (IRB) via phone at (217) 333 2670 (you may call collect) or via email at irb@illinois.edu.

Thank you for considering helping us in this effort!

Laura L. Barnes
Librarian/Executive Director,
Great Lakes Regional Pollution Prevention Roundtable (GLRPPR)
l-barnes@illinois.edu

I have read the consent document above and voluntarily agree to complete the survey. Click the “print” button on the browser if you would like to print this document for your records. (Please click on “next page” below to provide consent and to get to the survey.)

Some notes on navigating the survey . . .

- Questions will be presented to you on each screen.
- Although we have tried to prevent it, sometimes you will have to scroll down to see all the questions on a page.
- After you have answered all the questions on a screen, please click "Next Page" to save your answers and move to the next screen. When you reach the end of the questionnaire, please click "Submit" so that your responses can be saved.
- If you would like to return to a previous screen, please click "Previous Page."
- If you change any of your previous answers on a screen, please remember to click "Next Page" before proceeding to the next screen.
- If you need to exit the survey before completing, simply close your browser. The next time you click the survey link in the e-mail invitation, you will see that your previous responses have been saved. You can change your previous responses and/or continue from where you left off.
- The survey link is unique to you; please do not forward it or otherwise share it with anyone else.

ID: 2

How often do you try to find information about pollution prevention or waste reduction?

- Never
- Rarely
- Sometimes
- Often
- Extremely often

IF: response to ID 2="Never" **THEN:** Disqualify and display: "This survey pertains to members who access information on pollution prevention and waste reduction topics. Thank you for your time."

ID: 4

*Have you looked for information on pollution prevention or waste reduction as part of your job duties, for some other reason, or both?***Please select all that apply**

- Part of job duties
- Some other reason

IF: response to ID 4="some other reason" **THEN:** Display question ID 6

ID: 6

Please describe the non-job-related reason(s) why you have looked for information on pollution prevention or waste reduction.

ID: 8

Which type of information on pollution prevention or waste reduction have you ever tried to find?

| | Ever tried to find |
|--|--------------------------|
| Toxics reduction | <input type="checkbox"/> |
| Regulatory compliance | <input type="checkbox"/> |
| Information related to pollution prevention or waste reduction | <input type="checkbox"/> |
| Chemical substitution/alternatives | <input type="checkbox"/> |
| Upcoming training opportunities in pollution prevention | <input type="checkbox"/> |
| Upcoming funding opportunities in pollution prevention | <input type="checkbox"/> |
| Environmental news | <input type="checkbox"/> |
| Employee engagement/behavior change | <input type="checkbox"/> |
| Case studies/success stories | <input type="checkbox"/> |
| Other | <input type="checkbox"/> |

ID: 73

Which type of information on pollution prevention or waste reduction do you anticipate you are most likely to need in the future?

| | Most likely to need in the future |
|--|--|
| Toxics reduction | <input type="checkbox"/> |
| Regulatory compliance | <input type="checkbox"/> |
| Information related to pollution prevention or waste reduction | <input type="checkbox"/> |
| Chemical substitution/alternatives | <input type="checkbox"/> |
| Upcoming training opportunities in pollution prevention | <input type="checkbox"/> |
| Upcoming funding opportunities in pollution prevention | <input type="checkbox"/> |
| Environmental news | <input type="checkbox"/> |
| Employee engagement/behavior change | <input type="checkbox"/> |
| Case studies/success stories | <input type="checkbox"/> |
| Other | <input type="checkbox"/> |

ID: 48

When you need information about pollution prevention or waste reduction, what sources do you use to look for the information?

- General online search engines
- Your local library
- Great Lakes Regional Pollution Prevention Roundtable website (GLRPPR; www.glrppr.org/)
- National Pollution Prevention Roundtable website (NPPR; www.p2.org)
- EPA Website
- Files available within your company/organization
- An external vendor for a fee
- Information informally obtained from colleagues or peers
- Other (please specify):

ID: 84

How often do you use [piped from ID 48] to look for information about pollution prevention or waste reduction issues?

- Never
- Rarely
- Sometimes
- Often
- Extremely often

ID: 50

While searching for information about pollution prevention or waste reduction, did you experience any of the following issues while trying to get the information you need?

If you have not experienced any issues, please select "Experienced no issues."

- Experienced no issues
- Too much information to sift through
- Could not find information on current topics of interest
- No information on whom to contact when you cannot find the information you need
- Lack of good quality information
- Incomplete information on a topic
- Other issues (please specify):

Page entry logic: IF: response to ID 48 ="Great Lakes Regional Pollution Prevention Roundtable website (GLRPPR; www.glrppr.org/" THEN display ID 30

ID: 30

You indicated earlier that you have used the GLRPPR website to look for information on pollution prevention or waste reduction. Which of the following information have you accessed from the GLRPPR website?

- Topic hubs
- News
- GLRPPR Contacts Directory
- Help Desk Librarian/P2Rx Rapid Response
- Event calendar
- Funding opportunities
- Sector resources
- Links to other regional P2Rx centers
- Link to P2 results database
- Other (specify):

ID: 51

In answering the next set of questions, please think back to the last time you used one or more resources to look for information on pollution prevention or waste reduction.

ID: 23

On what topic or topics pertaining to pollution prevention or waste reduction were you looking for information?

ID: 24

Thinking back to the last time you used one or more resources to look for information on pollution prevention or waste reduction...

Were you able to find all the information you needed, or were you not able to find all the information you needed?

- Able to find all the information
- Not able to find all the information

IF: response to ID 24 ="Able to find all the information" **THEN:** Display ID 52

ID: 52

How useful was the information that you found?

- Not useful at all
- Slightly useful
- Moderately useful
- Very useful
- Extremely useful

IF: response to ID 24 ="Not able to find all the information" **THEN:** Display ID 53

ID: 53

On what topic or topics pertaining to pollution prevention or waste reduction were you unable to get information?

ID: 28

Thinking back to the last time you used one or more resources to look for information on pollution prevention or waste reduction...

Which of the following issues, if any, did you experience while trying to get the information you needed? If you did not experience any issues, please select "Did not experience any issues."

- Did not experience any issues
- Too much information to sift through
- No information on whom to contact when you cannot find the information you need
- Lack of good quality information
- Incomplete information on a topic
- Other issues (please specify):

ID: 54

If training sessions or seminars were to be offered on issues of pollution prevention or waste reduction, how useful would these be to you?

- Not useful at all
- Slightly useful
- Moderately useful
- Very useful
- Extremely useful

IF: response to ID 54 = "Slightly useful", or "Moderately useful", or "Very useful", or "Extremely useful" **THEN:** Display ID 55

ID: 55

What pollution prevention or waste reduction topics would be useful to address in training sessions or seminars?

Topic 1::

Topic 2::

Topic 3::

Topic 4::

Topic 5::

Topic 6::

IF: response to ID 54 = "Slightly useful", or "Moderately useful", or "Very useful", or "Extremely useful" **THEN:** Display ID 87, 85, 86, 89, 90, and 91

Below is a list of formats in which training might be offered. For each format, please indicate how likely you would be to participate in a training seminar about pollution prevention or waste reduction if it was offered in that format.

How likely would you be to participate in a training seminar about pollution prevention or waste reduction if it was offered...

ID: 85

As a webinar

- Not at all likely
 Slightly likely
 Moderately likely
 Very likely
 Extremely likely

ID: 86

As an in-person workshop

- Not at all likely
 Slightly likely
 Moderately likely
 Very likely
 Extremely likely

ID: 89

At a conference

- Not at all likely
 Slightly likely
 Moderately likely
 Very likely
 Extremely likely

ID: 90

As an online training course, which includes tests or quizzes and is scheduled at a specific time

- Not at all likely
 Slightly likely
 Moderately likely
 Very likely
 Extremely likely

ID: 91

As an online training course, which includes tests or quizzes, taken at your own pace

- Not at all likely
 Slightly likely
 Moderately likely
 Very likely
 Extremely likely

About you

Next, we have some questions about you.

ID: 57

Which of the following best describes your current employment status?

- Working full time
 Working part time
 Unemployed, looking for work
 Retired
 In school

IF: response to ID 57 = "Working full time", or "Working part time" **THEN:** Display ID 59, 60, 61

ID: 59

How many years have you been working on issues related to pollution prevention or waste reduction?

ID: 60

If you have been working on these issues for less than one year, please select the "Less than one year" option.

- Less than one Year

ID: 61

Otherwise, please specify the number of years in the text box provided.:

IF: response to ID 57 = "Unemployed, looking for work", or "Retired", or "In school" **THEN:** Display ID 68, 69, 70

ID: 68

How long have you been interested in issues related to pollution prevention or waste reduction?

ID: 69

If you have been interested in these issues for less than one year, please select the "Less than one year" option.

- Less than one Year

ID: 70

Otherwise, please specify the number of years in the text box provided.:

ID: 92

In which country do you reside?

- Canada
- United States of America
- Other

IF: response to ID 57 = "Unemployed, looking for work", or "Retired", or "In school" **AND** response to ID 92 = "United States of America" **THEN:** Display ID 62

ID: 62

In which state do you reside?

- Alabama

- Alaska
- American Samoa
- Arizona
- Arkansas
- California
- Colorado
- Connecticut
- Delaware
- District of Columbia
- Federated States of Micronesia
- Florida
- Georgia
- Guam
- Hawaii
- Idaho
- Illinois
- Indiana
- Iowa
- Kansas
- Kentucky
- Louisiana
- Maine
- Marshall Islands
- Maryland
- Massachusetts
- Michigan
- Minnesota
- Mississippi
- Missouri
- Montana
- Nebraska
- Nevada
- New Hampshire
- New Jersey
- New Mexico
- New York
- North Carolina

- North Dakota
- Northern Mariana Islands
- Ohio
- Oklahoma
- Oregon
- Palau
- Pennsylvania
- Puerto Rico
- Rhode Island
- South Carolina
- South Dakota
- Tennessee
- Texas
- Utah
- Vermont
- Virgin Islands
- Virginia
- Washington
- West Virginia
- Wisconsin
- Wyoming

IF: response to ID 57="Working full time", or "Working part time" AND response to ID 92 = "United States of America" **THEN:** Display ID 63

ID: 63

In which state is your primary work location?

- Alabama
- Alaska
- American Samoa
- Arizona
- Arkansas
- California
- Colorado
- Connecticut
- Delaware
- District of Columbia

- Federated States of Micronesia
- Florida
- Georgia
- Guam
- Hawaii
- Idaho
- Illinois
- Indiana
- Iowa
- Kansas
- Kentucky
- Louisiana
- Maine
- Marshall Islands
- Maryland
- Massachusetts
- Michigan
- Minnesota
- Mississippi
- Missouri
- Montana
- Nebraska
- Nevada
- New Hampshire
- New Jersey
- New Mexico
- New York
- North Carolina
- North Dakota
- Northern Mariana Islands
- Ohio
- Oklahoma
- Oregon
- Palau
- Pennsylvania
- Puerto Rico
- Rhode Island

- South Carolina
- South Dakota
- Tennessee
- Texas
- Utah
- Vermont
- Virgin Islands
- Virginia
- Washington
- West Virginia
- Wisconsin
- Wyoming

IF: response to ID 57="Working full time", or "Working part time" **THEN:** Display ID 64

ID: 64

Which of the following best describes the type of organization for which you work?

- Private company
- Non-profit organization
- Federal Government or government agency
- Regional Government or government agency
- Local Government or government agency
- State Government or government agency
- K-12 education
- Community college
- Technical school
- Four year college or university
- Other (specify):

IF: response to ID 57="Working full time", or "Working part time" **THEN:** Display ID 65

ID: 65

**About how many people work in your organization at all locations?
Count part-time and full-time employees.**

ID: 71

Thank you for taking our survey. Your response is very important to us.

Appendix B

Text of email invitation

E-vite and Reminder Text

Dear [contact("first name")],

The Great Lakes Regional Pollution Prevention Roundtable (GLRPPR) is sponsoring an online survey to get feedback from members like you about how we can do better at serving your information needs. Your feedback will help GLRPPR make decisions about its services and help improve them.

To protect the confidentiality of your responses, the Survey Research Laboratory (SRL) at the University of Illinois is managing the administration of this survey. SRL will not provide GLRPPR with any personal, identifying information about anyone who completes the survey. In addition, the results of the survey will be reported at the aggregate level, and individual responses will not be reported.

Please do not forward this email invitation to anyone else, as the link is unique to you. If you have any questions about this survey, please contact Sowmya Anand at (217) 333 2219 or via email at sanand@illinois.edu. If you have any concerns about the study or questions about your rights as a research participant, you can contact the University of Illinois Institutional Review Board (IRB) via phone at (217) 333 2670 (you may call collect) or via email at irb@illinois.edu.

Please click the following link to access the survey: [invite("survey link")]

Thank you for your participation.

Laura L. Barnes
Librarian/Executive Director, Great Lakes Regional Pollution Prevention Roundtable (GLRPPR)
l-barnes@illinois.edu

Reminder #1 sent via GLRPPR Listserv

Subject: Please help GLRPPR improve by giving your feedback

Dear GLRPPR member,

GLRPPR is looking for feedback on the information services it provides to its members. And, we are hoping to collect this feedback by means of an online survey. Last week you would have received an email invitation to take part in this online survey with the subject: "GLRPPR requests your feedback." If you have already completed the survey; thank you very much. If you have not yet had a chance to do so, please consider taking 10 minutes to complete this survey. Your feedback will be extremely helpful as GLRPPR makes changes and improvements to its services.

If you have not received the email with the link to the online survey, please contact Sowmya Anand at sanand@uiuc.edu and she will send you one.

Laura L. Barnes
Librarian/Executive Director,
Great Lakes Regional Pollution Prevention Roundtable (GLRPPR)
l-barnes@illinois.edu

Reminder #2 sent via GLRPPR Listserv

Subject: Last chance to help GLRPPR by giving your feedback

Dear GLRPPR member,

GLRPPR is looking for feedback on the information services it provides to its members. We are collecting this feedback through an online survey, which will remain open only for another week. Your feedback will be extremely helpful as GLRPPR makes changes and improvements to its services.

You might have received one or more email invitations to take part in this survey. If you have already completed the survey; thank you very much. If you have not yet had a chance to do so, please consider taking 10 minutes to complete this survey.

If you previously attempted to access the online survey and ran into problems, please accept our apologies for the technical errors. The website on which the survey is hosted was under a "Denial of Service" attack, but has since taken steps to rectify the situation.

If you have not received the email with the link to the online survey, please contact Sowmya Anand at sanand@uiuc.edu and she will send you one.

Laura L. Barnes
Librarian/Executive Director,
Great Lakes Regional Pollution Prevention Roundtable (GLRPPR)
l-barnes@illinois.edu

Appendix C

Full text Of Open Ended Responses

Please describe the non-job-related reason(s) why you have looked for information on pollution prevention or waste reduction.

Reducing pollution, toxics at home

- Building projects, lawn, garden & fruit tree care, household toxics removal
- Figure out how to reduce pollution from home as well as figuring out how to become more LEAN
- Home maintenance, lawn care.
- Health and Family issues

Interest in personal or public health issues

- Curiosity on what's happening in the field and how P2 relates to health.
- Interest in public health as it is related to pollution
- Personally for healthier ways to do things. Natural cleaning supplies, places to recycle anything, reuse options and ideas to reduce what I currently do.
- Health and Family issues

Curiosity about or interest in the field, up-to-date information

- Curiosity on what's happening in the field and how P2 relates to health.
- Energy efficiency and waste reduction opportunities for communities, curiosity
- I am an Instructor in the field of hazardous waste remediation and use this service to stay current in the industry.
- Personal interest in subject
- personal interest- environmental interest.
- good source of information
- I am retired from a P2 job, and I am still interested in the subject.
- Personal knowledge

Building projects; Lawn, garden & fruit tree care

- Building projects, lawn, garden & fruit tree care, household toxics removal
- Home maintenance, lawn care
- I helped my mom set up a compost to reduce food waste so we researched that. We also researched ways to help her lawn without using traditional fertilizers that just run into Madison's lakes

Care about the environment

- I recycle items for friends and relatives. Items like electronics. Lights from conversions to LED from ballasted fluorescence.
 - Looking for anything that we can add that will lower waste which can lower costs or make our service better
 - personal information, help family or friends
 - personal interest- environmental interest
 - Personally for healthier ways to do things. Natural cleaning supplies, places to recycle anything, reuse options and ideas to reduce what I currently do.
 - Because I live on this planet and every human should work towards reducing waste and preventing pollution. (Yes, that sounds ludicrously Pollyanna-ish, but so be it.)
-
-

- I helped my mom set up a compost to reduce food waste so we researched that. We also researched ways to help her lawn without using traditional fertilizers that just run into Madison's lakes

Other

Frequent user comments

- At home
- Energy efficiency and waste reduction opportunities for communities, curiosity
- Figure out how to reduce pollution from home as well as figuring out how to become more LEAN
- Interest in public health as it is related to pollution
- volunteer activities

On what topic or topics pertaining to pollution prevention or waste reduction were you looking for information?

Disposal, recycling, reuse methods

Frequent user comments

- Beneficial use of alum sludge
- Composite recycling Disposal of carbon fines
- Diesel exhaust emission reduction/aftertreatment for industrial vehicles, generators, off road/on road, etc.
- Fluorescent bulb recycling for school program.
- green chemistry, metal finishing P2, energy efficiency, water efficiency, and finding reuses for plastic substates
- Green chemistry, toxics reduction, recycling, BPS, recognition programs, partner programs
- P2 for printers, auto repair and body shops, educational facilities
- Where to recycle certain items.

Non-frequent user comments

- Options for expired military grade de-icing fluid.
- PCB disposal methods.
- Printers
- Recycling of various items.

Green chemistry, green purchases

Frequent user comments

- Environmental regulatory updates, Green topics, new equipment or procedures.
 - green building alternatives/green chemistry
 - green chemistry
 - Green Chemistry, how to help businesses start up a waste reduction program, source reduction
 - green chemistry, metal finishing P2, energy efficiency, water efficiency, and finding reuses for plastic substates
 - Green chemistry, toxics reduction, recycling, BPS, recognition programs, partner programs
 - health care hazardous waste regulatory compliance, composting, green chemistry, trends in P2 assistance
-

- P2 for coating aluminum, surface preparation; nanocrystalline cobalt alloy as hard chrome alternative; Recognizing employee efforts for better P2; Green chemistry
- environmentally preferable purchasing
- green cleaning products

Non-frequent user comments

- green chemistry

Alternate sources, substitutions

Frequent user comments

- alternatives assessments
- Green Chemistry, how to help businesses start up a waste reduction program, source reduction
- P2 for coating aluminum, surface preparation; nanocrystalline cobalt alloy as hard chrome alternative; Recognizing employee efforts for better P2; Green chemistry
- safer chemical alternatives case studies for specific chemicals

Non-frequent user comments

- renewable energy issues (if that counts) small business (manufacturing) waste reduction ideas other
- solvent substitution
- Solvent substitutions
- Usually toxics reduction - especially related to substitution of alternative chemicals.

Toxics reduction

Frequent user comments

- Diesel exhaust emission reduction/aftertreatment for industrial vehicles, generators, off road/on road, etc.
- Green chemistry, toxics reduction, recycling, BPS, recognition programs, partner programs
- Organics reduction & management
- Toxics reduction resources
- toxics use reduction

Non-frequent user comments

- POP's and elimination from waste water releases
- Usually toxics reduction - especially related to substitution of alternative chemicals.

Waste reduction

Frequent user comments

- Dry cleaning ,general cleaning, waste reduction and energy use
- Green Chemistry, how to help businesses start up a waste reduction program, source reduction
- green chemistry, metal finishing P2, energy efficiency, water efficiency, and finding reuses for plastic substates
- zero waste to landfill

Non-frequent user comments

- renewable energy issues (if that counts) small business (manufacturing) waste reduction ideas other
 - Waste reduction for laboratories
 - zero waste
-

Regulations, policy

Frequent user comments

- Environmental regulatory updates, Green topics, new equipment or procedures.
- health care hazardous waste regulatory compliance, composting, green chemistry, trends in P2 assistance
- I was looking for analysis of policy - specifically the effectiveness of various p2 and waste reduction laws or policy approaches. There is almost NOTHING out there that I could find. This would a huge contribution if GLPPR could help.

Non-frequent user comments

- chemical regulation toasca issues
- regulatory compliance.

Compost, composting

Frequent user comments

- Composting efforts
- health care hazardous waste regulatory compliance, composting, green chemistry, trends in P2 assistance

Non-frequent user comments

- Compost
- Composting, waste-to-energy

Pertaining to industry

Frequent user comments

- Green Chemistry, how to help businesses start up a waste reduction program, source reduction

Non-frequent user comments

- pollution prevention in manufacturing or industry. pollution prevention conference. case studies
- renewable energy issues (if that counts) small business (manufacturing) waste reduction ideas other

Training, webinars, conferences

Frequent user comments

- P2 training
- Webinar

Non-frequent user comments

- pollution prevention in manufacturing or industry. pollution prevention conference. case studies

Case studies

Frequent user comments

- Case studies; use of metrics

Non-frequent user comments

- pollution prevention in manufacturing or industry. pollution prevention conference. case studies
-

Best practices

Frequent user comments

- Green chemistry, toxics reduction, recycling, BPS, recognition programs, partner programs

Non-frequent user comments

- sectors best practices

Recognition programs

Frequent user comments

- Green chemistry, toxics reduction, recycling, BPS, recognition programs, partner programs
- P2 for coating aluminum, surface preparation; nanocrystalline cobalt alloy as hard chrome alternative; Recognizing employee efforts for better P2; Green chemistry

Unable to remember

Non-frequent user comments

- Can't remember since it was quite a while ago.
- I don't recall any specific examples.

Other

Frequent user comments

- Boiler MACT
- Dry cleaning ,general cleaning, waste reduction and energy use
- e-waste data tracking for recycling brownfields
- Environmental regulatory updates, Green topics, new equipment or procedures.
- Green chemistry, toxics reduction, recycling, BPS, recognition programs, partner programs
- health care hazardous waste regulatory compliance, composting, green chemistry, trends in P2 assistance
- P2 training
- PAHs
- storm water management
- Sustainability planning
- Waste to energy

Non-frequent user comments

- gasification
- plating
- Technical assistance program in Texas.

On what topic or topics pertaining to pollution prevention or waste reduction were you unable to get information?

Specific substance, chemical, item, topic

Frequent user comments

- disinfectants that would meet a green cleaning spec
- health care hazardous waste nuances

Non-frequent user comments

- drilling down to a particular chemical - would end up going to several different spots - sometimes EPA's site
- Printers

Regulations, policy

Frequent user comments

- Boiler MACT
- Policy analysis and effectiveness of certain legal or policy approaches (for example: how effective are laws that mandate commercial recycling?)

Non-frequent user comments

- Legislation or regulatory guidance to eliminate the release and creation of POP's especially the Dirty Dozen
- toska reform, state status

Analytic tools, metrics

Frequent user comments

- Financial analysis methodology
- Metrics (how to quantify cost and quantity related to P2 efforts)

Non-frequent user comments

- green chemistry analytical tools

Alternate sources, substitutions

Frequent user comments

- chemical substitutions

Non-frequent user comments

- Good non-hazardous solvent substitutions

Incomplete information

Frequent user comments

- Quality and specifics were not as expected. Most articles and information either attempt to sell something or are fluff pieces. Very little in depth material is found.

Non-frequent user comments

- I am always able to get information but it is not always complete. renewable energy

Waste reduction, recycling

Frequent user comments

- Where to recycle certain items.

Non-frequent user comments

- waste reduction

Best practices, program related information

Frequent user comments

- Best P2 practices, cost efficient P2 practices
- environmental impact of EPP, exactly how much GHG and other pollutants we can expect to eliminate through EPP

New technologies, methods, up-to-date information

Frequent user comments

- Many times looking to provide cutting edge technology information, and that information is harder to find than tried and true practices. When working w/ cos. that are doing P2 they may already have pursued the low hanging fruit and are looking to move to the next step/improvement
- up to date P2 information for printers

Renewable energy

Non-frequent user comments

- I am always able to get information but it is not always complete. renewable energy

Examples, case studies

Non-frequent user comments

- Was looking for existing examples where a particular process had been used in practical application.

Funding opportunities

Frequent user comments

- Grant monies...federal, state, city, EPA, DNR, clean cities

Training

Frequent user comments

- State programs and training

None

Frequent user comments

- can't remember

Non-frequent user comments

- n/a

Other

Frequent user comments

- Registration - This was remedied quickly though.
- State programs and training
- You can never have enough information.

Non-frequent user comments

- To clarify, there are restrictions on the gov't side that prevents certain waste reduction options to be entertained.
-
-