Iowa Disease Surveillance System
June 2010 Update

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IDSS Coordinator
Iowa department of Public Health
Presentation Outline

- Statistics about IDSS Use
- IDSS Information Available to Local Users
- IDSS Enhancements
- Recent IDSS Memos
Statistics about IDSS Use

How Happy I Am With My Job

Level of Happiness

Before Recession Started

After Recession Started

Very Happy

Kind of Happy

Not Happy

GraphJam.com
## Who is Using IDSS at IDPH?

<table>
<thead>
<tr>
<th>Program</th>
<th>Users</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center for Acute Disease Epidemiology</td>
<td>20 users</td>
</tr>
<tr>
<td>Hepatitis C Program</td>
<td>2 users</td>
</tr>
<tr>
<td>Tuberculosis Program</td>
<td>1 user</td>
</tr>
<tr>
<td>Maternal Hepatitis B Program</td>
<td>1 user</td>
</tr>
<tr>
<td>STD Program</td>
<td>4 internal users, 6 Regional users</td>
</tr>
<tr>
<td>Environmental Health</td>
<td>4 users</td>
</tr>
<tr>
<td>Executive/Mgmt. Staff</td>
<td>2 users</td>
</tr>
</tbody>
</table>
### Who is Using IDSS Locally? (statewide)

<table>
<thead>
<tr>
<th>Category</th>
<th>Users</th>
</tr>
</thead>
</table>
| Local Public Health     | 277 Standard users  
|                         | 24 STD users       |
| Infection Prevention    | 137 users   |
| Laboratory              | 124 users   |
| Total users statewide   | 602 users   |
IDSS in Use by Enrolled Facilities Statewide (by Region)

Overall statewide use by 94% of 218 enrolled facilities
IDSS Coverage Statewide
Enrolled Users Using IDSS

Overall statewide use by 81% of 602 enrolled users
Total Hours in IDSS by region

- Region 1: 4,623 hours
- Region 2: 5,417 hours
- Region 3: 641 hours
- Region 4: 479 hours
- Region 5: 1,319 hours
- Region 6: 527 hours
Region 4 Top Minutes by facility

Myrtue Medical Center Community Health: 6,965
VNA-Pottawattamie County: 5,901
Audubon County Public Health: 2,189
Clarke County Public Health: 1,905
Cass County Memorial Hospital Home Care / Hospice: 1,883
Mills County PHN Service: 1,845
Madison County Public Health: 1,469
Adair County Home Care: 1,120
Ringgold County Public Health: 763
Southwest Iowa Home Health Services: 717
IDSS Information Available to Local Users

The chances of a procrastinator getting a chart done

Chances of success

Importance

GraphJam.com
2009 Total Disease Activity
2009 Pottawattamie Co. Disease Activity

[Bar chart showing disease activity for various conditions, with Brucella at the highest with 24 cases, followed by Campylobacter, Hepatitis B acute, Hepatitis C, and Influenza.]
# Trends for Campy and Salmonellosis

**Disease:** Campylobacter, Salmonellosis  
**Counties:** POTTAWATTAMIE  
**MMWR Week-Year:** 1-2004 thru 53-2009

<table>
<thead>
<tr>
<th>Year</th>
<th>Campy</th>
<th>Salm</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>24</td>
<td>14</td>
<td>38</td>
</tr>
<tr>
<td>2008</td>
<td>17</td>
<td>10</td>
<td>27</td>
</tr>
<tr>
<td>2007</td>
<td>18</td>
<td>15</td>
<td>33</td>
</tr>
<tr>
<td>2006</td>
<td>18</td>
<td>19</td>
<td>37</td>
</tr>
<tr>
<td>2005</td>
<td>18</td>
<td>12</td>
<td>30</td>
</tr>
<tr>
<td>2004</td>
<td>24</td>
<td>8</td>
<td>32</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>119</strong></td>
<td><strong>78</strong></td>
<td><strong>197</strong></td>
</tr>
</tbody>
</table>
Age At Onset: Campy and Salmonellosis

<table>
<thead>
<tr>
<th>Age Group</th>
<th># Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;=18</td>
<td>3</td>
</tr>
<tr>
<td>19-39</td>
<td>6</td>
</tr>
<tr>
<td>40-59</td>
<td>5</td>
</tr>
<tr>
<td>60-79</td>
<td>9</td>
</tr>
<tr>
<td>80+</td>
<td>1</td>
</tr>
</tbody>
</table>

**Campy**

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<td>40-59</td>
<td>2</td>
</tr>
<tr>
<td>60-79</td>
<td>1</td>
</tr>
<tr>
<td>80+</td>
<td>0</td>
</tr>
</tbody>
</table>

**Salm**
Salmonellosis PFGE Values by MMWR Week

![Chart showing Pulse Field Gel Electrophoresis Pattern for Salmonellosis by MMWR Week.]
Initial Lab Testing by Facility
Resources, presentations, troubleshooting tools, etc. developed for users are posted on the IDSS page of the Iowa Department of Public Health web site:

www.idph.state.ia.us/adper/idss.asp

<table>
<thead>
<tr>
<th>Type of info</th>
<th>Case Counts</th>
<th>Case Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Event Counts Map</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Event Status Crosstab Report</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Frequency Report (Disease)</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Frequency Report (Serogroup)</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Frequency Report (Serotype)</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Trends Report</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Disease Query Report</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>PHEE Report</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Regional/Outstanding Follow-up Report</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>State Outstanding Follow-up Report</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Local Outstanding Follow-up Report</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Event Detail Report (the open case only)</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

- County: X
- Case Count: X
- Disease: X
- Event Status: X
- Frequency (of category)*: X
- Accumulating frequency (of category)*: X
- Disease State (acute, chronic, etc.): X
- Subtype (Type, Serogroup, Serotype, or Biotype): X
- Serogroup: X
- Serotype: X
- Year: X
- Case #: X
IDSS Enhancements

TELL ME ABOUT YOUR EXCELLENT SUGGESTION.
Incorporated Changes 2009/2010

- Electronic Laboratory Reporting
- IDSS alerting integrated into IDSS
- Disease Toggle function
  Example: Influenza
- STD Security for Follow-up Tab
- New Integrated Reports & Exports
- Notes Tab Redesigned – includes User history of ‘saves’
- Case Address/Phone History
Future IDSS Enhancements Wish List

- Additional data elements for reports:
  - Date fields for performance measures
  - Address 1 and Zip code
- Main screen message board
- Auto create cases for contacts marked as cases
- Alerting feature to send random note to LPHA investigating case
- System reminder when IDSS registration near expiration

(note: 19 Region 4 IDSS users have expired registrations)
Send IDSS enhancement suggestions

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Recent IDSS Memos

What part of "I'm Not Interested" do telemarketers not understand?
STD Program Direction

- STD Reporting Clarification
  - IDSS Reporting is intended to replace paper reporting (no need to report both ways)
  - Reporting to IDSS sends report to both state and local public health agencies
  - Local public health STD reporting procedures do not need to change – if used to referring to Disease Prevention Specialist, this can continue
  - Treatment information needs to be handled carefully. See “STD Reporting Q & A” under Other Resources at www.idph.state.ia.us/adper/idss.asp
Influenza Changes

- The disease name has been changed from “Novel Influenza A virus” to “Influenza.”
- 5 different categories of Influenza are all captured under the disease name “Influenza:”
  - Influenza death
  - Influenza hospitalization
  - Influenza outbreak
  - Influenza pediatric mortality
  - Influenza rare/unusual A (Novel Influenza A)
Miscellaneous

- Local Outstanding Follow Up Report Memo
- Specific case communication from CADE Nurses or Epidemiologists
- Renewal of IDSS Security & Confidentiality Agreement
- IDSS User Manual under revision
- Sluggish behavior of IDSS
  - Internet connection speed
  - PC processing speed
  - RAM memory on PC
  - Page File Usage