



An Advanced Consultation System for Hospital Laboratories:

STATPack™

Steven Hinrichs, MD, Director, Nebraska Public Health Laboratory

Ann Fruhling, PhD, Assistant Professor, UNO

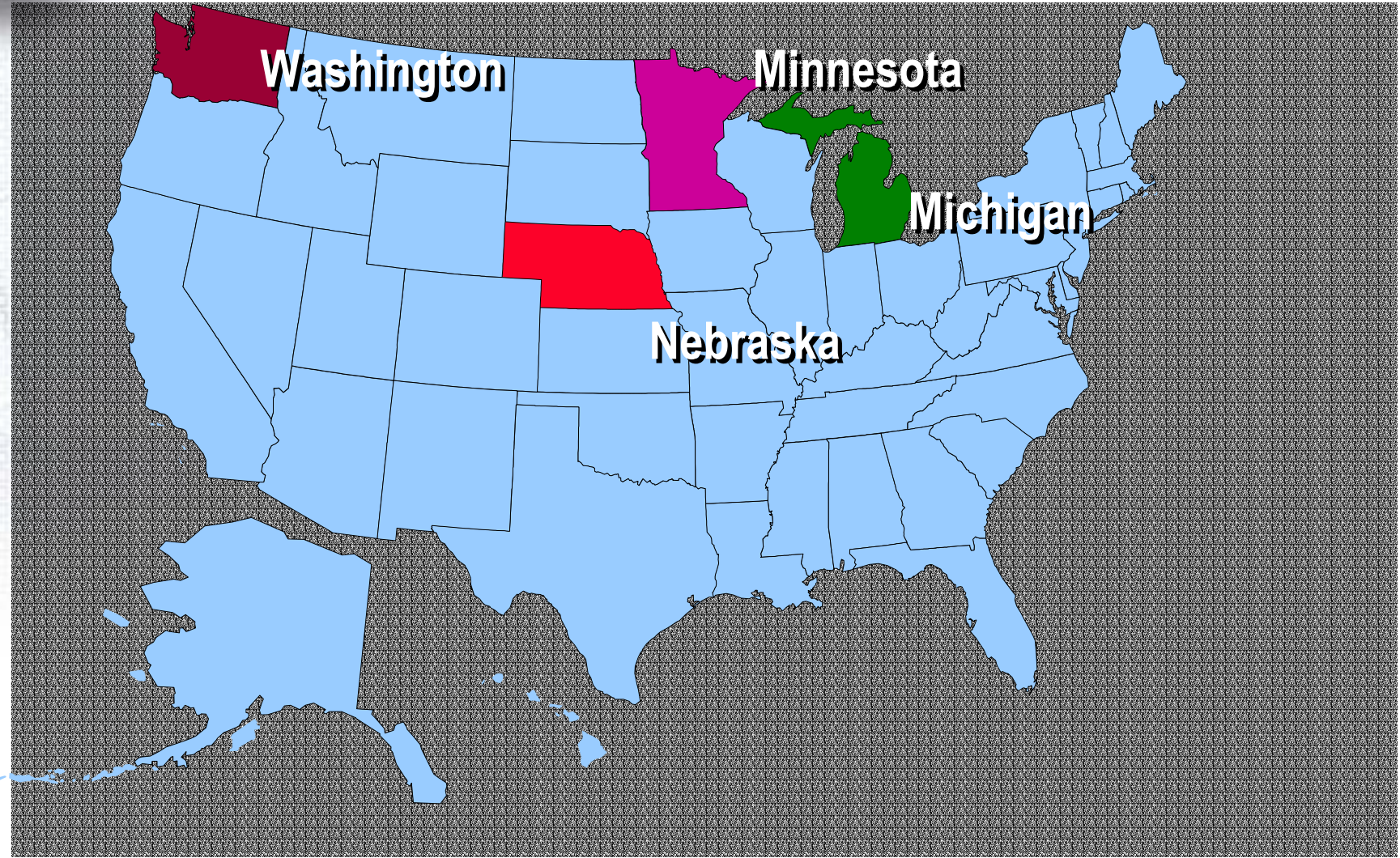
Anthony Sambol, M.A., SM (NRM), Assistant Director, NPHL

Josh Rowland, MBA, MT(ASCP), State Training Coord., NPHL





National Laboratory System- State Lab Demonstration Projects, 2001





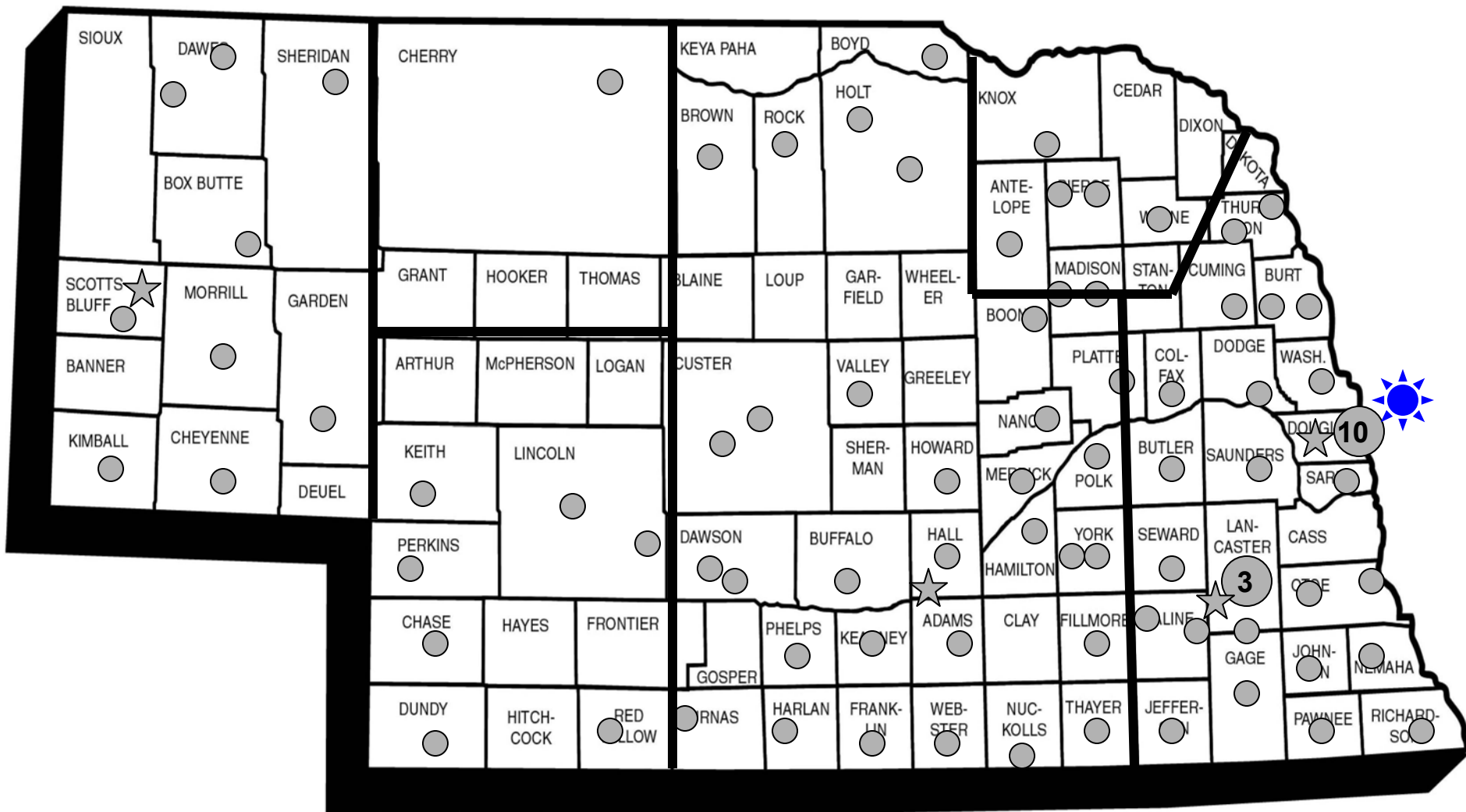
Nebraska LDP Project goals

- **Improve communications**
 - **Clinical Laboratories, Infection Control, ED**
 - **Internet Connectivity**
- **Provide consultation and training**
 - **Expertise on testing methodology**
 - **On-site training**
 - **Distance consultations**



NE-LDP: Obstacles and Challenges

- **Communication**
 - Most labs connected only by phone
 - Large geographical area similar
 - “Distance” barriers for rapid testing
 - “Distance” barriers for consultation
- **Electronic Interchange**
 - Many hospitals without Internet connection in the laboratory



Nebraska, Summer 2001: No true “Network” – 86 hospital labs, six “service areas” and four full-time county health departments.

- 86 Hospital Laboratories
- ★ 4 Full-time Health Departments
- ☀ NPHL Level-B/C Laboratory



Created “Laboratory Needs Assessment Tool” addressing:

- **Communication- how**
- **Technology- what**
- **Education**
- **Protocols**
- **Contacts**

NEBRASKA HEALTH AND HUMAN SERVICES SYSTEM
Nebraska Public Health Laboratory

The Nebraska Public Health Laboratory in cooperation with the Nebraska Health and Human Services System is conducting the following survey for the sole purpose of assessing your clinical laboratory's educational needs for all levels of your laboratory personnel and management.

This survey is being conducted statewide.

Results will be tabulated and evaluated in order to develop and make available quality educational products for your laboratory.

Survey results are strictly confidential and will not be used to rank or grade laboratories.

Results will be used for the purpose of selecting and making available educational programs for your laboratory.

If you have any questions or concerns, please call or email Josh Rowland at 402-559-6070 or jrowland@unmc.edu.

Please complete both pages of the assessment by July 1st and return via fax 402-559-4077.

Name of laboratory or facility: _____			
Address of laboratory or facility: _____			
<small>street address</small>			
_____	_____	_____	_____
<small>city</small>	<small>state</small>	<small>zip code</small>	<small>county</small>
Laboratory Director (or Manager): _____			
Phone: _____	Fax: _____	E-mail: _____	
Completed by: _____			
<small>please print name</small>			
Position: _____		Licensure/Certification: _____	
Phone: _____	Fax: _____	E-mail: _____	
Date survey completed: _____			

1. In which types of laboratory training and education would you or your laboratory staff be most likely to participate? (Please rank the top three choices using #1 as the most desired education delivery format, and specify those that are least desired or not practical with an X.)

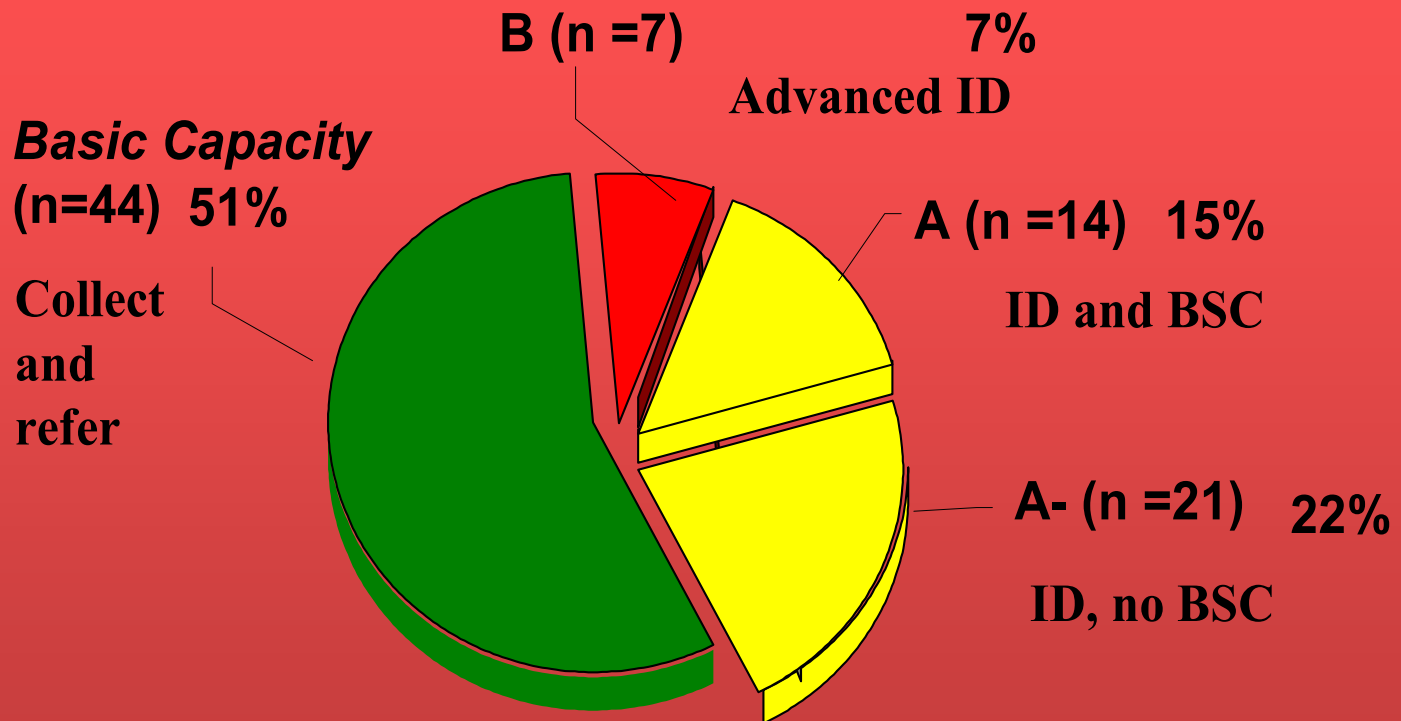
- ___ On-site training in your laboratory
- ___ Wet workshop at an off-site location
- ___ Online training via Internet with interactive video, print, and testing
- ___ On-site materials: manuals and posters
- ___ Correspondence course
- ___ Teleconference course
- ___ Videotaped lectures (self-study)
- ___ Lectures on CD-ROM (self-study)

Specify other: _____



State-wide Assessment Results:

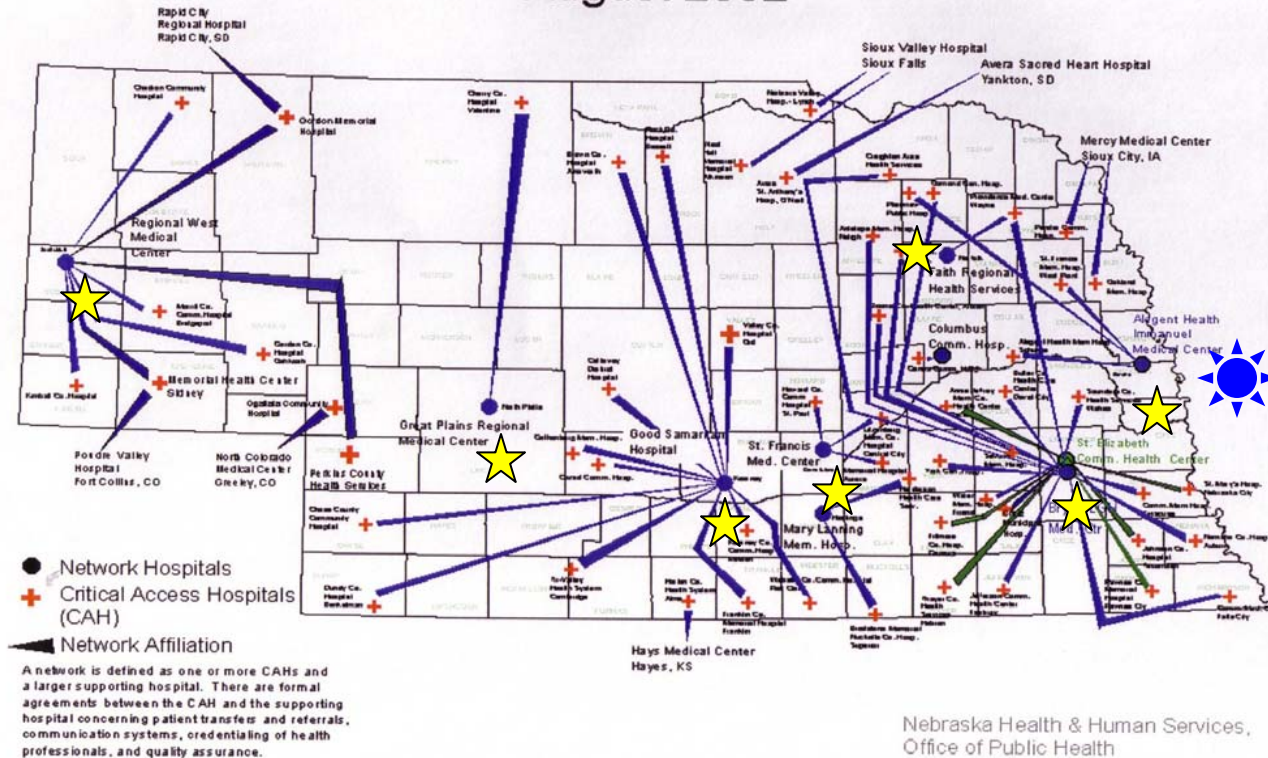
Laboratory Capacity in Nebraska 86 Hospital Laboratories





LRN Level-A Laboratory Training, Fall, 2002

Nebraska Critical Access Hospital Networks August 2002

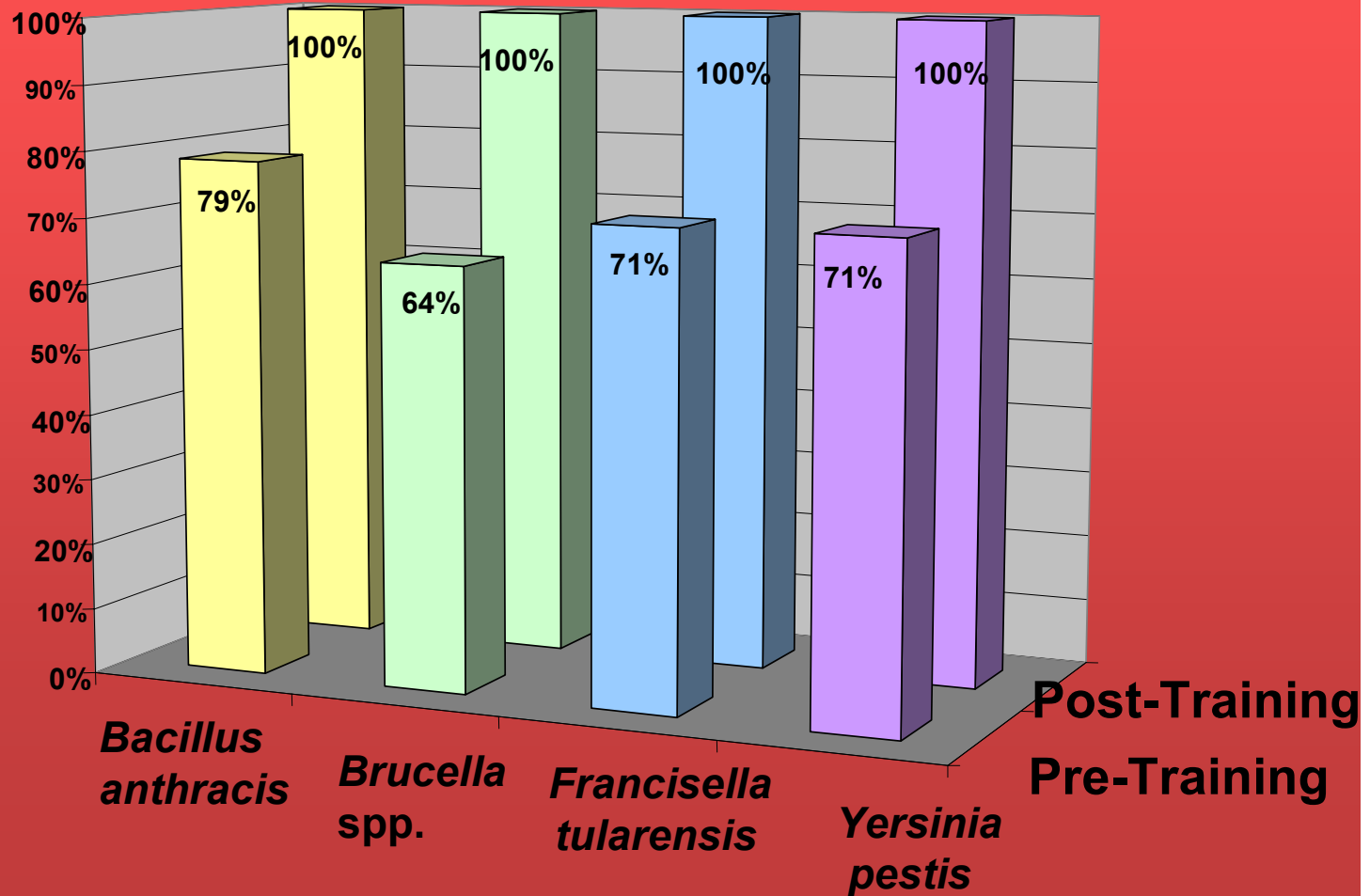


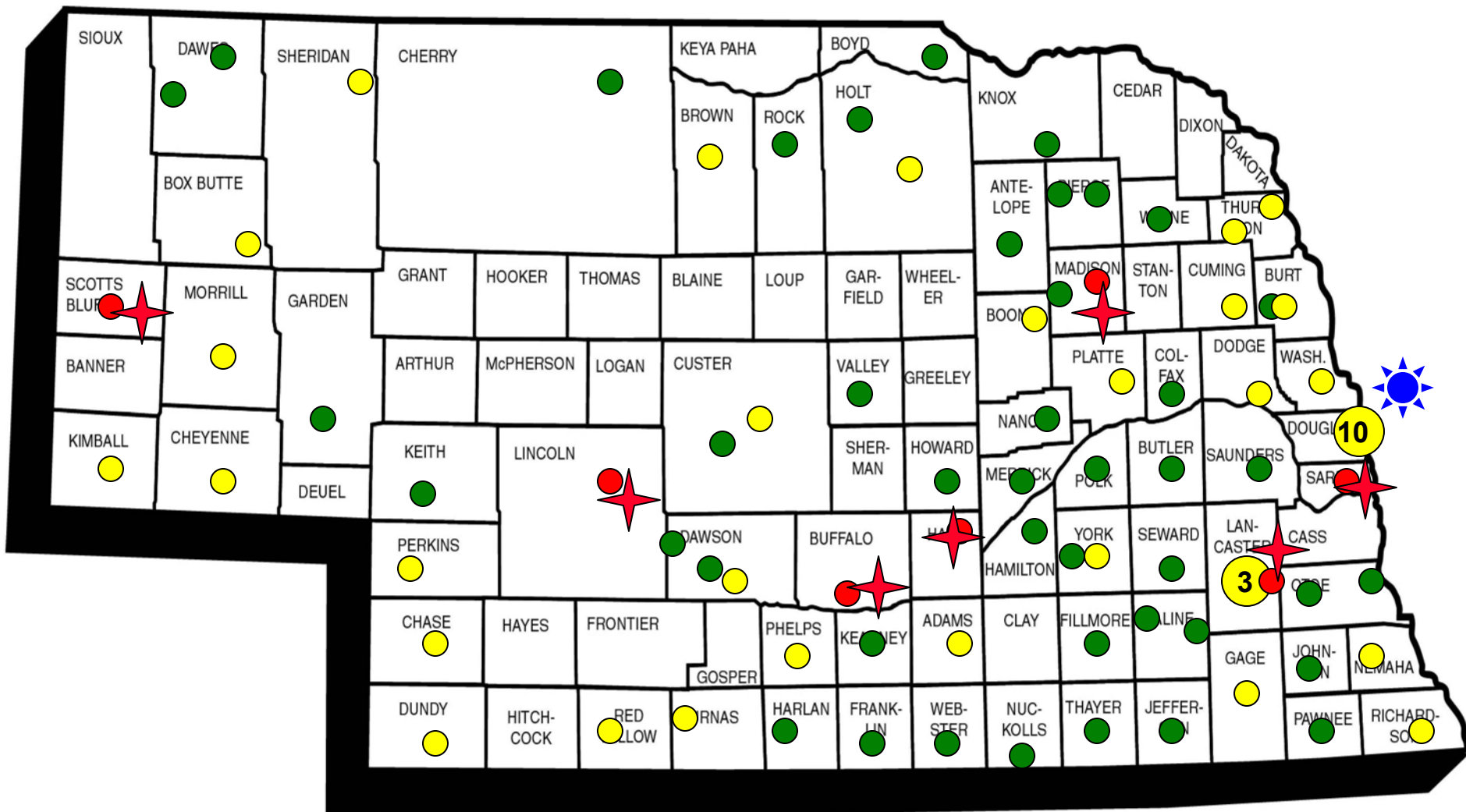
★ 11 Sessions, 7 Locations, 104 Laboratorians,
74 out of 86 Hospitals



Training impact seen:

Level-A Laboratories Familiar with Cultural and Morphological Characteristics of Select Agents





 NE-LN *Basic Capacity* Laboratories

 NE-LN *Level-A* Laboratories

 NE-LN *Level-B* Laboratories

 NPHL *Confirmatory* Laboratory



Training, supplies, protocols for
Smallpox rule-out testing, 2002 & 2004



CONNECTING TO THE LABORATORY ELECTRONICALLY

NHHSS Focus Area E: HAN

NPHL

Nebraska Public
Health Laboratory

A cooperative partnership
with Nebraska Department
of Health and Human
Services System

Click Here for
Preparedness
Information
from the NHHSS



TEST DIRECTORY
BIOTERRORISM/CHEMICAL
TERRORISM PROCEDURES
SUPPLY ORDERS
CONTACT US
ACCREDITATION &
CERTIFICATIONS
NPHL WEB

University of Nebraska Medical Center
981180 Nebraska Medical Center
Omaha, Nebraska 68198-1180
402-559-2440
Toll-Free 866-290-1406
Fax 402-559-9497

Nebraska Health and Human
Services System
Department of Regulation
and Licensure

UNIVERSITY OF
Nebraska
Medical Center

PHLIP | TRAINING/EDUCATION | NEWSLETTERS | HOURS OF OPERATION | LINKS

Welcome to the Client Services web site for the Nebraska Public Health Laboratory. The Nebraska Public Health Laboratory is the combined effort of many different people, all dedicated to improving the health of Nebraskans and our neighbors.

New to www.nphl.org:

- Click [HERE](#) for the Spring 2005 NPHL Newsletter
- [Save the Date](#) for the 2005 Center for Biopreparedness Education (formerly Nebraska Center for Bioterrorism Education) Symposia Click [HERE](#) for symposia details and registration information.
- [Provider UPIN Requested on NPHL Requisitions](#)

PHLIP Users:

- New users or those wanting more information about the PHLIP system should click the *PHLIP* in the blue task bar for more information about using the system
- Existing PHLIP users may click *NPHL WEB* in the red task bar at anytime to enter the system.

Testing available from the Nebraska Public Health Laboratory must be authorized by the appropriate state screening program or the state epidemiologist. Questions regarding the investigation of reportable disease should be directed to the appropriate county or state epidemiologist.

[| Home |](#) [| Test Directory |](#) [| Protocols & Procedures |](#) [| Supply Orders |](#)
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Enhanced Communications

&

Diagnostic Capabilities

STATPack™



STATPack™
Secure
Telecommunications
Application
Terminal
Package



Strategic Planning Session



STATPack™ Hardware- Prototype



STATPack™ Hardware- Phase 1



Bio-image Capture Unit



STATPack™ Hardware-Phase 2

STATPack™ with Macroscopic Image





STATPack™ with Microscope Image



Hospital Lab STATPack™ Home Page

U.N.Center for Biosecurity, NPHL - Mozilla

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U.N. Center for Biosecurity

MENU

- HOME
- CONTACT NPHL
- MESSAGE HISTORY
- CAMERA IMAGES
- SCOPE IMAGES
- ELECTRONIC CONSULT
- ELECTRONIC TEXTBOOK
- ABOUT STATPACK
- STATUS



Transferring data from camera...

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U.N.Center for Biosecurity, NPHL - Mozilla



Sending Messages and Images to the NPHL

Scenario 1:

A laboratory has an unusual organism growing on culture and would like consultation from the NPHL.

Capture Image - Macroscopic

U.N.Center for Biosecurity, NPHL - Mozilla

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MENU

- HOME
- CONTACT NPHL
- MESSAGE HISTORY
- CAMERA IMAGES
- SCOPE IMAGES
- ELECTRONIC CONSULT
- ELECTRONIC TEXTBOOK
- ABOUT STATPACK
- STATUS

MANAGE CAMERA IMAGES

CAPTURE IMAGE

SEND TO NPHL

Live Image

Select Captured Image Zoom Size: 50% 100% 150% 200% 300%

Last Captured Image (50%)

Zoom

Brightness

Focus

AUTO FOCUS

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Sending an Image to the NPHL

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MENU

- HOME
- CONTACT NPHL
- MESSAGE HISTORY
- CAMERA IMAGES
- SCOPE IMAGES
- ELECTRONIC CONSULT
- ELECTRONIC TEXTBOOK
- ABOUT STATPACK
- STATUS

Image Description, NPHL - Mozilla

SEND IMAGE TO NPHL

Priority Level*

Routine
 Urgent

Subject*
Bacillus species

Source
CSF

Gram Stain* **Catalase**
gram positive rod

Media* **Age of Culture***
SBA 48 hrs

Image Description
Bacillus species- r/o anthracis

* - Required Fields

Send Cancel

SEND TO NPHL

Image Zoom Size: 50% 100% 150% 200% 300%

Last Captured Image (50%)

Transferring data from camera...

U.N.Center for Biosecurity Image Description, NPHL

Capturing a Microscopic Image

U.N.Center for Biosecurity, NPHL - Mozilla

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MENU

- HOME
- CONTACT NPHL
- MESSAGE HISTORY
- CAMERA IMAGES
- SCOPE IMAGES**
- ELECTRONIC CONSULT
- ELECTRONIC TEXTBOOK
- ABOUT STATPACK
- STATUS

MANAGE MICROSCOPE IMAGES

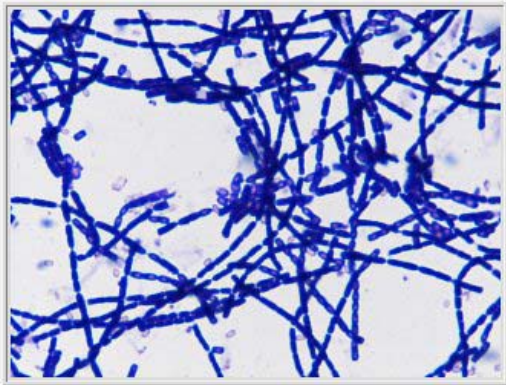
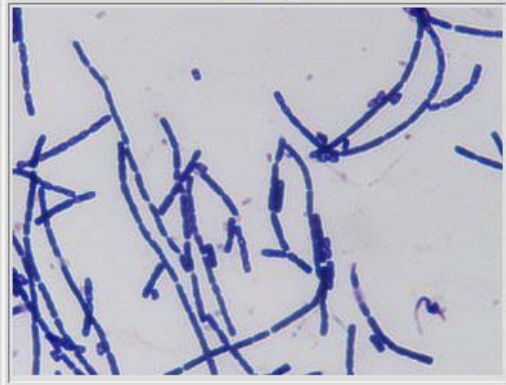
CAPTURE IMAGE

SEND TO NPHL

Live Image

Select Captured Image Zoom Size: 50% 100% 150% 200% 300%

Last Captured Image (50%)



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Done

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Image Display Window

U.N.Center for Biosecurity, NPHL - Mozilla

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MENU

- HOME
- CONTACT NPHL
- MESSAGE HISTORY
- CAMERA IMAGES
- SCOPE IMAGES**
- ELECTRONIC CONSULT
- ELECTRONIC TEXTBOOK
- ABOUT STATPACK
- STATUS

ZOOM CAPTURED IMAGE

LIVE IMAGE SEND TO NPHL

Select Captured Image Zoom Size: [50%](#) [100%](#) [150%](#) [200%](#) [300%](#)

Last Captured Image (150%)

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U.N.Center for Biosecurity, NPHL - Mozilla

Sending an Image to the NPHL

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MENU

- HOME
- CONTACT NPHL
- MESSAGE HISTORY
- CAMERA IMAGES
- SCOPE IMAGES
- ELECTRONIC CONSULT
- ELECTRONIC TEXTBOOK
- ABOUT STATPACK
- STATUS

SEND IMAGE TO NPHL

Priority Level*

- Routine
- Urgent

Subject*

Bacillus species?

Source

CSF

Gram Stain*

gram positive rod

Catalase

positive

Media*

sba

Age of Culture*

24

Image Description

Large chaining rods w/spores.

* - Required Fields

Send Cancel

SEND TO NPHL

Zoom Size: 50% 100% 150% 200% 300%

Most Captured Image (50%)

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UNIVERSITY OF Nebraska Medical Center

Done

U.N.Center for Biosecurity Image Description, NPHL

NPHL STATPack™ Home Page

U.N.Center for Biosecurity, NPHL - Mozilla {Build ID: 2002082606}

STATPack™ SERVER

U.N. Center for Biosecurity

MENU

HOME

SEND
MESSAGE

MESSAGE
HISTORY

IMAGE
HISTORY

LAB CAM
ACCESS

ELECTRONIC
CONSULT

ELECTRONIC
TEXTBOOK

ABOUT
STATPACK

ADMIN



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Transferring data from nphl.statpack.org...



NPHL Message History

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MENU

- HOME
- SEND MESSAGE
- MESSAGE HISTORY
- IMAGE HISTORY
- LAB CAM ACCESS
- ELECTRONIC CONSULT
- ELECTRONIC TEXTBOOK
- ABOUT STATPACK
- ADMIN

MESSAGE HISTORY ?

- [Bellevue](#)
- [Grand Island](#)
- [Kearney](#)
- [NDA Food](#)
- [NHHSS Water](#)
- [Norfolk](#)
- [North Platte](#)
- [PKI](#)
- [Scottsbluff](#)
- [UNL Vet](#)
- [UNMC Client](#)

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Document: Done (0.16 secs)

Retrieving a Message from a Lab

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MENU

- HOME
- SEND MESSAGE
- MESSAGE HISTORY
- IMAGE HISTORY
- LAB CAM ACCESS
- ELECTRONIC CONSULT
- ELECTRONIC TEXTBOOK
- ABOUT
- STATPACK
- ADMIN

NORFOLK MESSAGE HISTORY ?

Messages received Messages sent Select A Different Location

Priority	Date	Subject
Routine	05-26-2005,11:51:39	test
Routine	05-26-2005,11:38:43	positive blood culture
Routine	05-26-2005,11:22:57	test
Routine	05-09-2005,11:33:51	Norfolk Scope
Routine	04-12-2005,10:11:32	E. coli
Emergency	04-11-2005,13:10:44	Pager from Norfolk
Routine	03-23-2005,11:30:16	Test New Lightbox
Routine	03-06-2005,13:26:31	Test
Routine	01-20-2005,06:25:08	message respond
Emergency	12-13-2004,11:01:11	Pager from Norfolk
Urgent	12-01-2004,15:35:04	Question
Emergency	07-22-2004,14:31:50	Pager from Norfolk

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Document: Done (0.331 secs)

Retrieving a Message from a Lab

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MENU

- HOME
- CONTACT NPHL
- MESSAGE HISTORY
- CAMERA IMAGES
- SCOPE IMAGES
- ELECTRONIC CONSULT
- ELECTRONIC TEXTBOOK
- ABOUT STATPACK
- STATUS

MESSAGE HISTORY

Messages received Messages sent

Alert Message Back

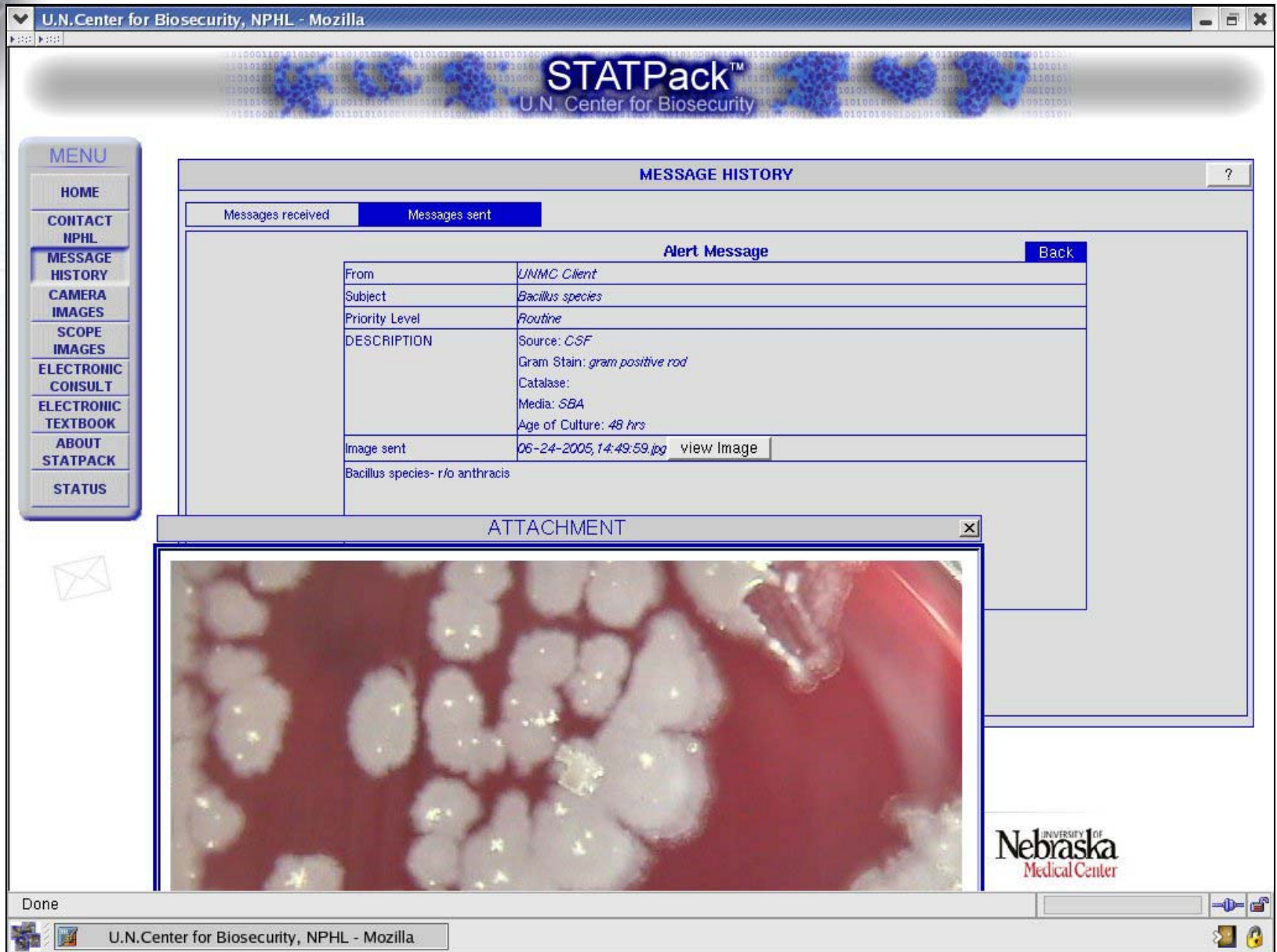
From	UNMC Client
Subject	Bacillus species
Priority Level	Routine
DESCRIPTION	Source: CSF Gram Stain: gram positive rod Catalase: Media: SBA Age of Culture: 48 hrs
Image sent	06-24-2005, 14:49:59.jpg view Image
Bacillus species- r/o anthracis	

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Done

U.N.Center for Biosecurity, NPHL - Mozilla

Retrieving a Message from a Lab



The screenshot shows a web browser window titled "U.N.Center for Biosecurity, NPHL - Mozilla". The main content area displays the "STATPack™ U.N. Center for Biosecurity" logo at the top. Below the logo is a "MESSAGE HISTORY" section with two tabs: "Messages received" and "Messages sent". The "Messages sent" tab is active, showing an "Alert Message" with a "Back" button. The message details are as follows:

Alert Message		Back
From	UNMC Client	
Subject	Bacillus species	
Priority Level	Routine	
DESCRIPTION	Source: CSF Gram Stain: gram positive rod Catalase: Media: SBA Age of Culture: 48 hrs	
Image sent	06-24-2005, 14:49:59.jpg	view Image
Bacillus species- r/o anthracis		

Below the message details is an "ATTACHMENT" window displaying a microscopic image of a Gram stain. The image shows numerous white, rod-shaped bacteria against a red background. In the bottom right corner of the browser window, the "UNIVERSITY OF Nebraska Medical Center" logo is visible. The browser's status bar at the bottom shows "Done" and the address bar contains "U.N.Center for Biosecurity, NPHL - Mozilla".



Send Message to Laboratory Sites from the NPHL

Scenario 2:

The NPHL identifies a specimen that is of suspicious nature and determines that labs should be notified of their concern.

Sending a Message to Selected Laboratory Sites from the NPHL

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U.N. Center for Biosecurity

MENU

- HOME
- SEND MESSAGE
- MESSAGE HISTORY
- IMAGE HISTORY
- ELECTRONIC CONSULT
- ELECTRONIC TEXTBOOK
- ABOUT STATPACK
- ADMIN

SEND MESSAGE TO LABS ?

Priority:

Routine
 Urgent

Send To:

- All
- Grand Island
- Kearney
- Lincoln
- Norfolk
- North Platte
- Scottsbluff
- UNMC Client

Attachments:

Subject*:

Source:

Gram Stain*:

Catalase:


Media*:

Age of Culture*:


Image Description:

* - Required Fields

NPHL Development Server , v1.5.0 RC
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Sending a Microscopic Image

U.N.Center for Biosecurity, NPHL - Mozilla {Build ID: 2002082606}

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MENU

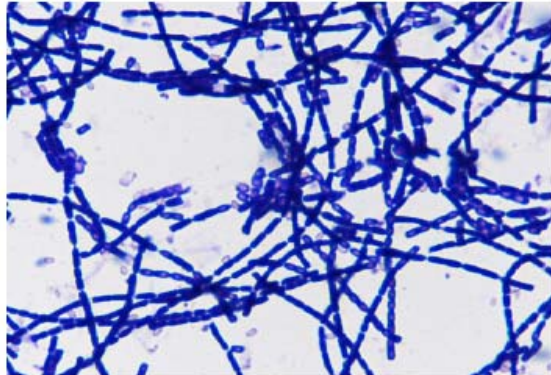
- HOME
- SEND MESSAGE
- MESSAGE HISTORY
- IMAGE HISTORY
- LAB CAM ACCESS
- ELECTRONIC CONSULT
- ELECTRONIC TEXTBOOK
- ABOUT STATPACK
- ADMIN

SEND MESSAGE TO LABS ?

Attachments:

Attach Images - Mozilla {Build ID: 2002082606}

- UNMCClient/05-12-2005,10:15:23.jpg
- UNMCClient/05-12-2005,10:18:27.jpg
- UNMCClient/05-12-2005,12:28:16.jpg
- UNMCClient/05-18-2005,13:28:38.jpg
- UNMCClient/05-18-2005,13:29:58.jpg
- UNMCClient/05-18-2005,13:33:15.jpg
- UNMCClient/05-18-2005,13:43:27.jpg
- UNMCClient/05-19-2005,10:55:36.jpg
- UNMCClient/05-25-2005,16:29:02.jpg
- UNMCClient/06-01-2005,15:43:38.jpg
- UNMCClient/06-03-2005,10:00:45.jpg



Select and Return to Sendalert Cancel


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Document: Done (0.21 secs)

Hospital Laboratory: Message History


U. N. Center for Biosecurity

MENU

HOME

CONTACT
NPHL

MESSAGE
HISTORY


CAMERA
IMAGES

ELECTRONIC
CONSULT

ELECTRONIC
TEXTBOOK






















ABOUT
STATPACK

STATUS



MESSAGE HISTORY ?

Messages receivedMessages sent

Priority ▼ ▲	Date ▼ ▲	Subject ▼ ▲
Routine	07-19-2004,13:16:25	<u>test data</u>
Routine	07-19-2004,10:25:20 	<u>test</u>
Urgent	07-15-2004,14:43:50 	<u>test</u>
Routine	07-15-2004,14:43:15 	<u>test</u>
Routine	07-15-2004,13:20:20 	<u>Test</u>
Urgent	07-15-2004,12:22:01 	<u>test</u>
Routine	07-15-2004,12:21:49 	<u>test</u>
Urgent	07-15-2004,12:20:35 	<u>Test</u>
Routine	07-15-2004,12:19:13 	<u>Test</u>
Urgent	07-13-2004,15:02:41 	<u>Routine Test</u>
Urgent	07-13-2004,15:01:32 	<u>Routine Test</u>
Urgent	07-13-2004,15:00:12 	<u>Routine Test</u>
Urgent	07-13-2004,14:59:24 	<u>Routine Test</u>
Routine	07-13-2004,14:58:06 	<u>Routine Test</u>
Routine	07-13-2004,14:54:01 	<u>Routine Test</u>
Routine	07-13-2004,14:51:10 	<u>Test Me</u>
Routine	07-13-2004,14:49:41 	<u>Routine Test</u>
Routine	07-13-2004,14:49:22 	<u>Routine Test</u>
Urgent	07-13-2004,13:09:43 	<u>test</u>
Routine	07-13-2004,12:56:45 	<u>test</u>
Urgent	07-13-2004,12:20:22 	<u>testt</u>
Routine	07-13-2004,12:20:08 	<u>test</u>



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Messages History- Expanded Detail Window



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MENU

- HOME
- CONTACT NPHL
- MESSAGE HISTORY**
- CAMERA IMAGES
- ELECTRONIC CONSULT
- ELECTRONIC TEXTBOOK
- ABOUT STATPACK
- STATUS





MESSAGE HISTORY ?

Messages received | **Messages sent**

Alert Message [Back](#)

From	Lincoln
Subject	test
Priority Level	Routine
DESCRIPTION	Source: test Gram Stain: gram positive rod Catalase: positive Media: test Age of Culture: test
Image sent	06-17-2004,11:06:45.jpg view Image

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Emergency Contact to the NPHL

Scenario 3

Hospital microbiologist encounters an highly suspect organism on specimen culture or Gram stain.

Emergency Contact Page

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MENU

- HOME
- CONTACT NPHL**
- MESSAGE HISTORY
- CAMERA IMAGES
- SCOPE IMAGES
- ELECTRONIC CONSULT
- ELECTRONIC TEXTBOOK
- ABOUT
- STATPACK
- STATUS

CONTACT NPHL ?

This will allow your lab to send an **emergency message** to a NPHL contact person.
You should be contacted immediately by the proper emergency contact.

Lab's Emergency Contact Number
4025599424 (Default)

Alternate Emergency Number

ext.
ex: 4021234567 ex: 1234

Send Page

UNMC Client , v3.0.0
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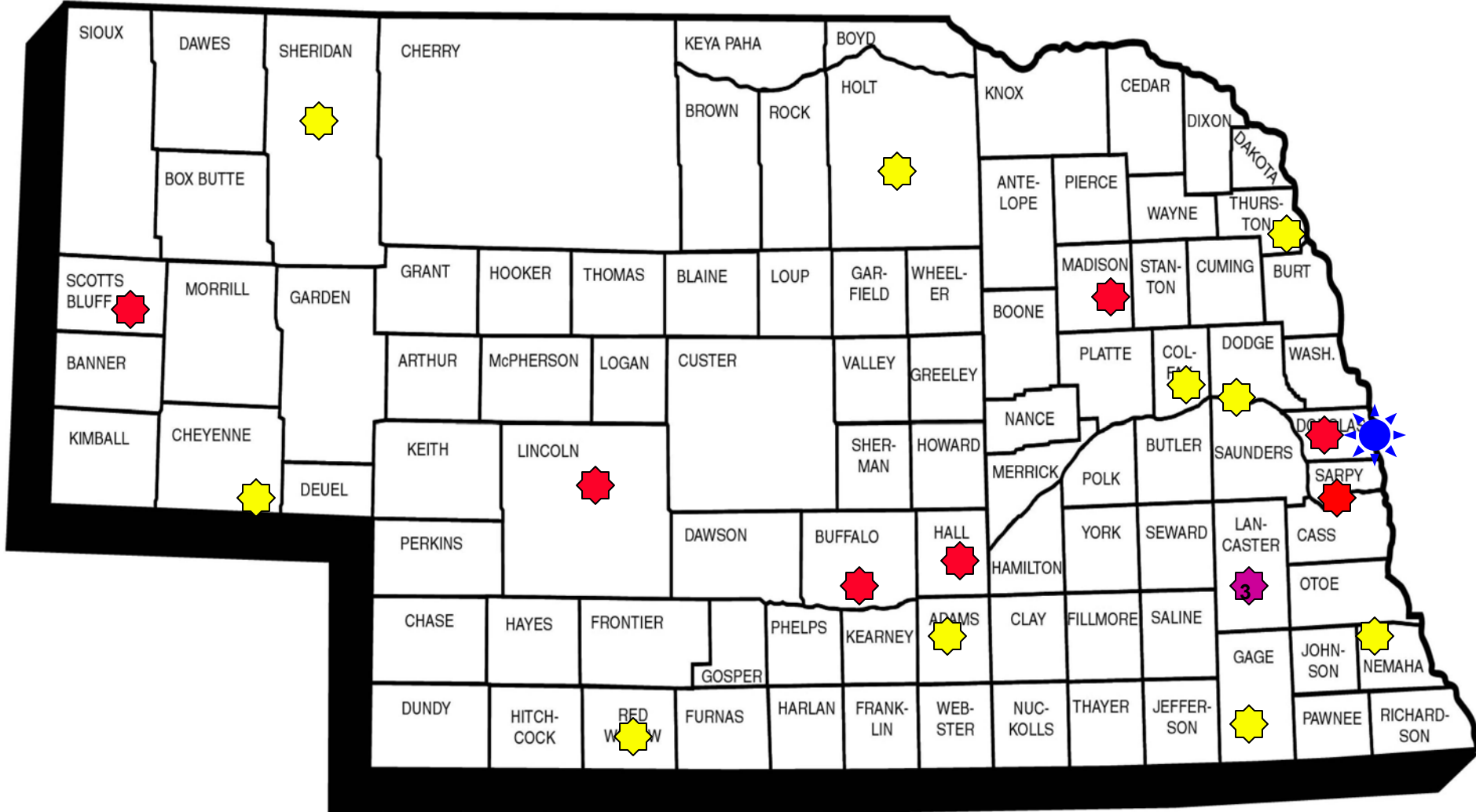
Transferring data from unmcclient...

U.N.Center for Biosecurity, NPHL - Mozilla



Other Features:

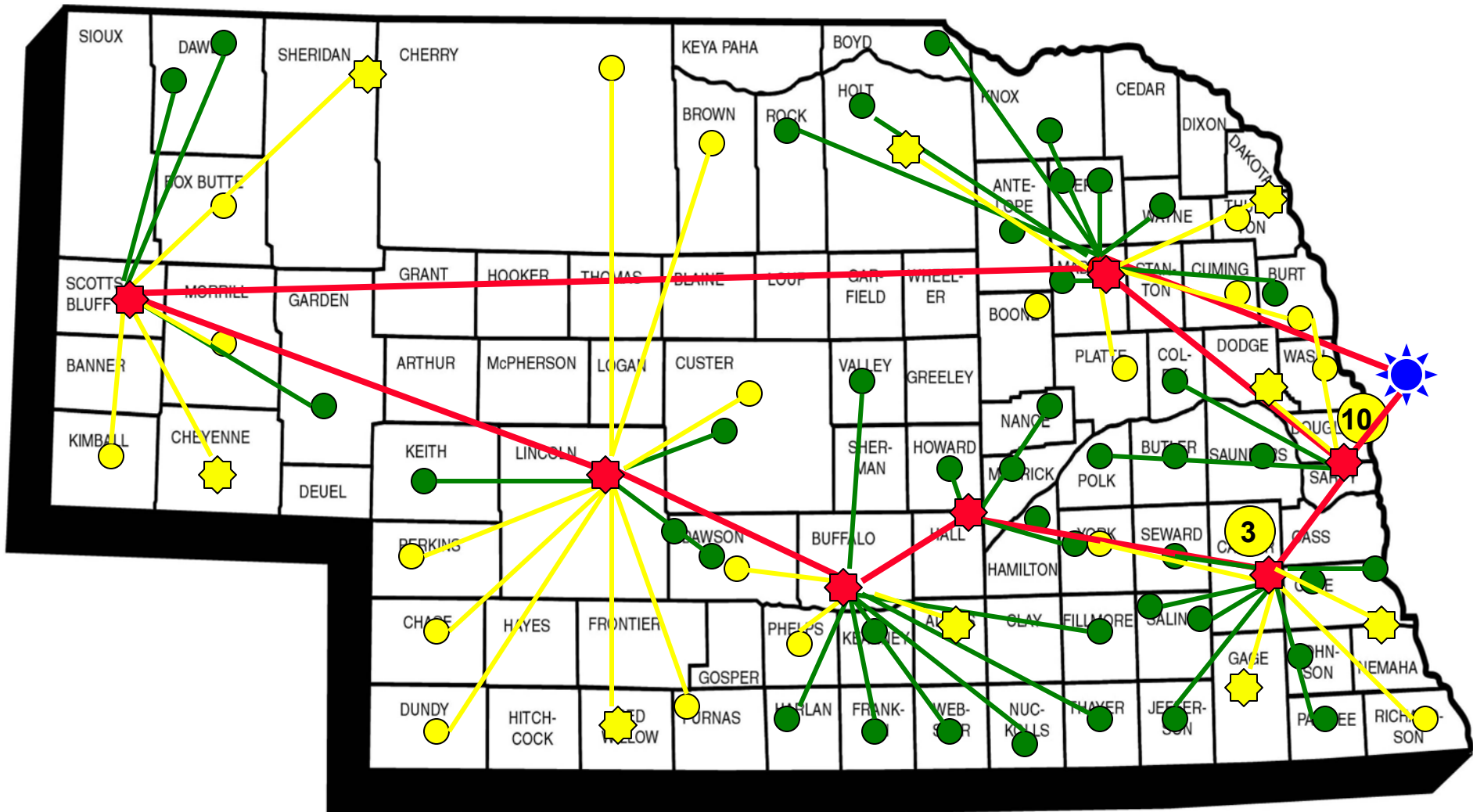
- Image History
- Electronic Textbook
- Remote LabCam access
- Server (NPHL) System Administration Services
 - **Electronic Consultation Management**
 - **Email Contact Information Management**
 - **Emergency Contact Information Management**
 - **System Status/Availability Information**
- Hospital Laboratory STATPack™ Status
 - **System Status/Availability**
 - **Electronic Textbook**
 - **STATPack™ Information**



 **Phase 1-STATPack Units (7): NRI Funding**

 **Phase 2 -STATPack Units (3): APHL/CDC PPLIP- UNL Veterinary, NDA Food and NHSS Water**

 **Phase 3-STATPack Units (10): HRSA funding**

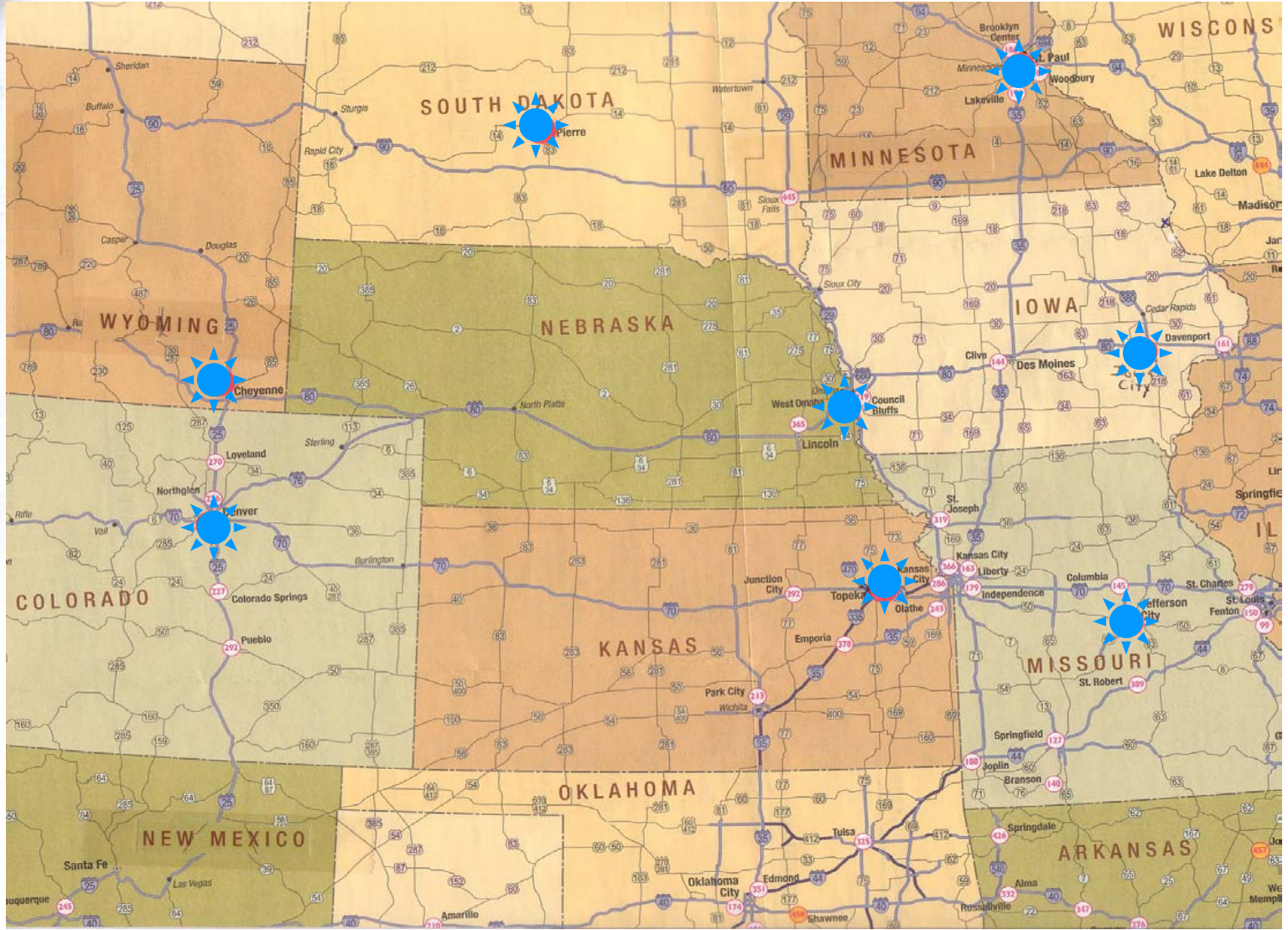


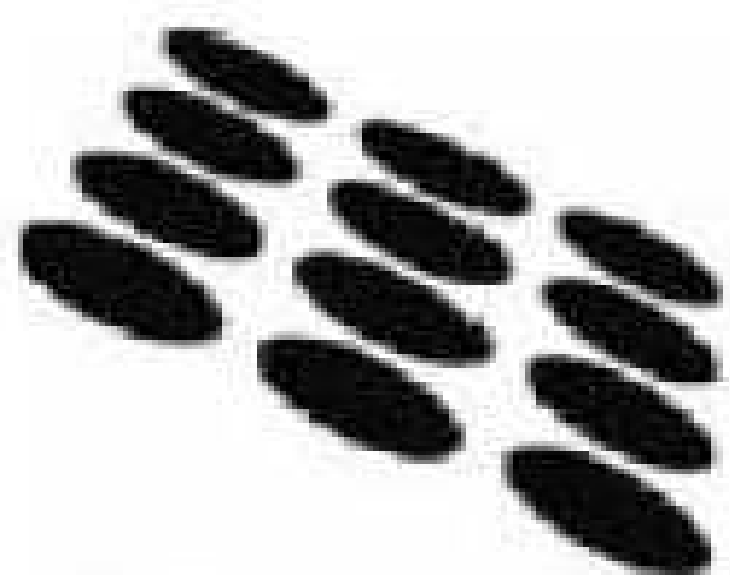
Complete networking of the Ne-LN; a 500 mile wide laboratory network

- Ne-LN *Basic Capacity* Laboratories
- ★ Ne-LN *Level-B* Laboratories
- Ne-LN *Level-A* Laboratories
- ★ NPHL



SPHLs in the Central Plains States





STATPack™ System Team



STATPack™ System Team





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