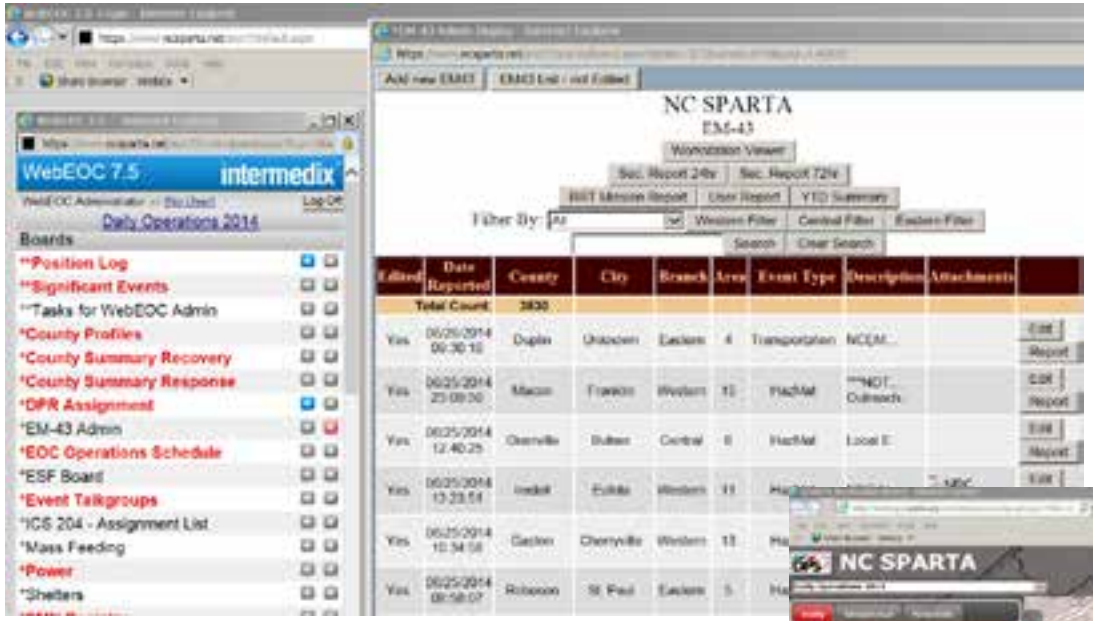
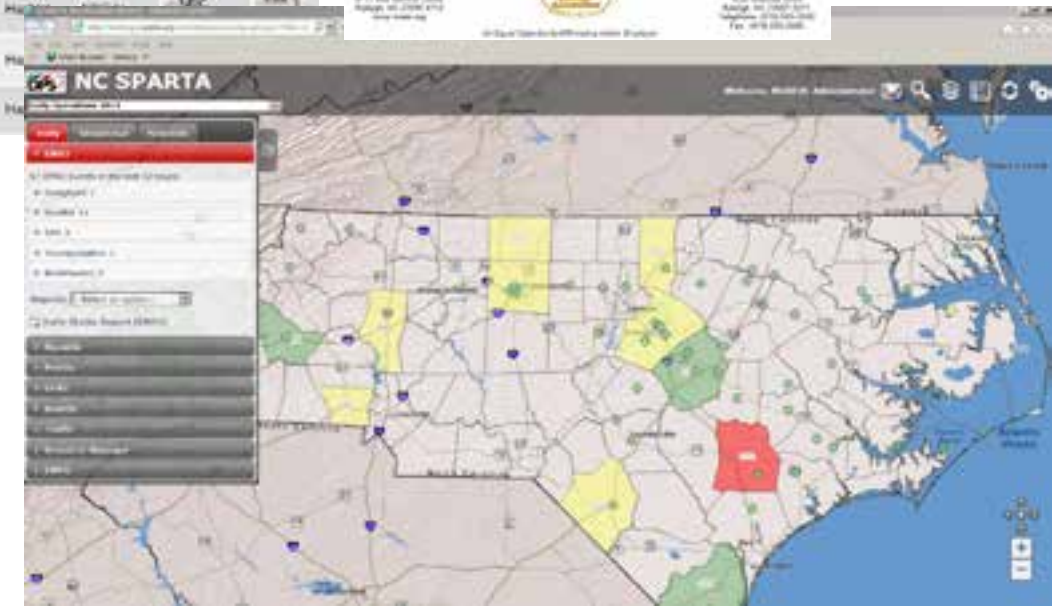
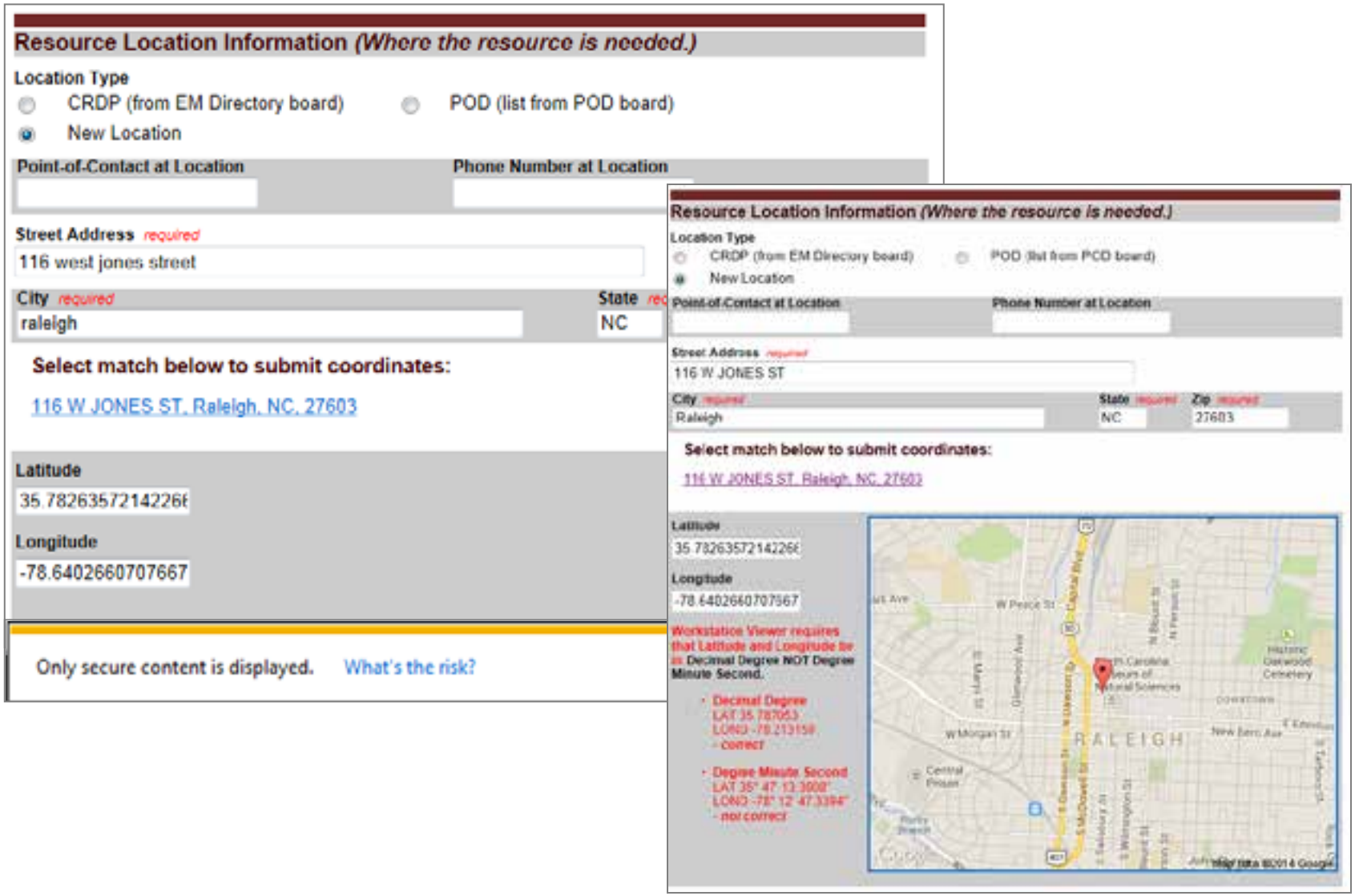
North Carolina
State Preparedness and Resource Tracking Application





Marc Stanard – NCEM
July 2014

Position Log – Geocoding Requests



Position Log – Request Maps/Analysis

Save | Cancel | Print | Spell Check

Alamance County Position Log Form

Show Record Info

Requester Information

Name: Carla Bissette

Agency: Alamance County

Initial Date/Time: 6/2/2014 20:20:48

Priority:

Entry Type

- Journal Entry
- Significant Event
- Resource Request
- Map/Analysis Request

Description

Map/Analysis Request *(Fill in all fields below.)*

Requestor Name

Requestor Phone Number

Examples of Maps That Can be Requested

Storm Surge Map - Current Advisory

Storm Surge Table - Current Adv

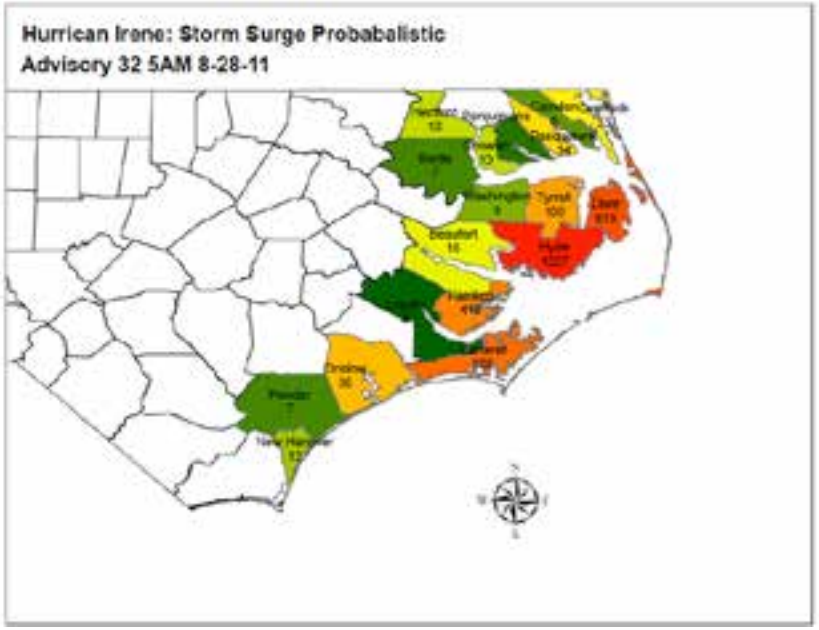
File Attachments *(PDFs are preferred format for documents.)*

Filename:

Filename:

Filename:

Guide



Counties Impacted

	Height of flooding							
	0-1ft	2ft	3ft	4ft	5ft	>5ft	Advisory 32 structures per county	Advisory 31 structures per county
Total								
	1708	**680**	**355**	**157**	**74**	**151**	**3105**	**9519**
Beaufort								
	12	1	1	2	0	0	16	1484
Bertie								
	3	3	0	1	0	0	7	10
Brunswick								
	0	0	0	0	0	0	0	1
Camden								
	7	0	0	0	0	1	8	15

Tasks – ICS 204

NC SPARTA

RCC East Operations Task List

Raging Tempest Exercise 04222014

Filter By: All

Switch to All Tasks | In Progress | On Scene

Record Number	Coastal Region	DPR	Originating Agency	Initial Date/Time	Resour
98851		DPR1	Hertford County	4/22/2014 22:14:12	Operations
98843		DPR1	Hertford County	4/22/2014 21:57:08	Chainsaw
98840		DPR1	Hertford County	4/22/2014 21:45:08	Generator
98457		DPR3	Hoke County	4/22/2014 17:30	Chainsaw
97954	Northern Coastal Plain	DPR1	Martin County	4/22/2014 15:45:30	Generator
97557	Southern Coastal Plain	DPR3	RCC East Operations for **Pender County**	4/22/2014 15:05:26	2 1/2 ton t

DIVISION ASSIGNMENT LIST | **3. Branch** Eastern | **Division/Group** Division 2

WebEOC MSN # 97557 | NCNG Record # | MSN Complete: Complete

1. Incident Name Raging Tempest Exercise 04222014 | **2. Operational Period** Date:

4. Operations Personnel

Operations Chief	P. Brown	Division/Group Supervisor	C. Cieszko
Branch Director		Air Attack Supervisor No.	

5. Resources Assigned this Period

Strike Team/Task Force/ Resource Designator	Leader	Number Persons	Trans. Needed	Drop Off PT./Time	Pick Up PT./Time
4ea Cargo Trucks	OIC	8	No	Wilmington/1545	

6. Work Assignments

Notes:
Assignment completed, returning to Elizabethtown for rehab and rest
Updated by Chris Cieszko at 4/22/2014 17:58:28

Bumper #'s: B2, HQ30, HQ33, HQ32
Updated by Chris Cieszko at 4/22/2014 15:55:21.

Deployed NCNG Multi-Force Pkg#3
Updated by Chris Cieszko at 4/22/2014 15:19:57.

Assigned to Ops LEH (Use 4 from Elizabethtown)
Updated by Hill at 4/22/2014 15:13:53.

Provide Multi-Force Pkg to assist in EVAC of families from flooded homes. Bumper #'s B2, HQ30, HQ33, HQ32.

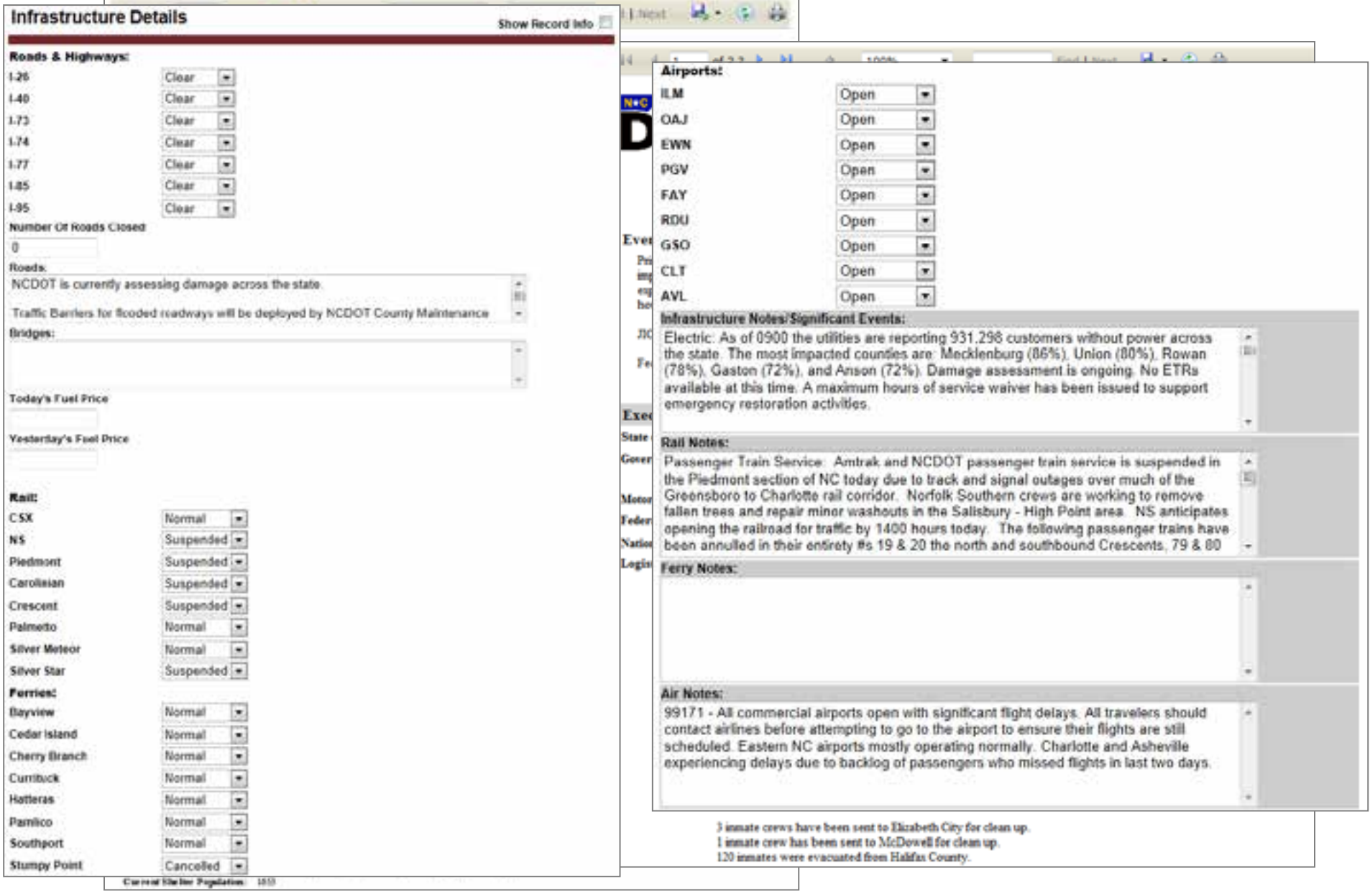
7. Special Instructions
Contact Div Sup upon arrival @2525204923 ext 205

8. Communications Resources Assigned this Period

Name/Function	Primary Contact: indicate cell, pager or radio (frequency/system/channel)	System	Channel	Function	Frequency	System	Chann
Command	Viper EBO	King NFC		Logistics		King NFC	
Tactical Div/Group	Viper EBO	King NFC		Air to Ground		King NFC	

9. Prepared by (Resource Unit Ldr.) C. Cieszko | **Approved by** (Planning Sect. Ch.) P. Brown | Date 4/22/14 | Time 1520

ESF Board & Reports



Infrastructure Details

Show Record Info

Roads & Highways:

I-26	Clear
I-40	Clear
I-73	Clear
I-74	Clear
I-77	Clear
I-85	Clear
I-95	Clear

Number Of Roads Closed: 0

Roads:

NCDOT is currently assessing damage across the state.

Traffic Barriers for flooded roadways will be deployed by NCDOT County Maintenance

Bridges:

Today's Fuel Price:

Yesterday's Fuel Price:

Rail:

CSX	Normal
NS	Suspended
Piedmont	Suspended
Carolinian	Suspended
Crescent	Suspended
Palmetto	Normal
Silver Meteor	Normal
Silver Star	Suspended

Ferries:

Bayview	Normal
Cedar Island	Normal
Cherry Branch	Normal
Currituck	Normal
Hatteras	Normal
Pamlico	Normal
Southport	Normal
Stumpy Point	Cancelled

Current Shelter Population: 1833

Airports:

ILM	Open
OAJ	Open
EWN	Open
PGV	Open
FAY	Open
RDU	Open
GSO	Open
CLT	Open
AVL	Open

Infrastructure Notes/Significant Events:

Electric: As of 0900 the utilities are reporting 931,298 customers without power across the state. The most impacted counties are: Mecklenburg (86%), Union (80%), Rowan (78%), Gaston (72%), and Anson (72%). Damage assessment is ongoing. No ETRs available at this time. A maximum hours of service waiver has been issued to support emergency restoration activities.

Rail Notes:

Passenger Train Service: Amtrak and NCDOT passenger train service is suspended in the Piedmont section of NC today due to track and signal outages over much of the Greensboro to Charlotte rail corridor. Norfolk Southern crews are working to remove fallen trees and repair minor washouts in the Salisbury - High Point area. NS anticipates opening the railroad for traffic by 1400 hours today. The following passenger trains have been annulled in their entirety #s 19 & 20 the north and southbound Crescents, 79 & 80

Ferry Notes:

Air Notes:

99171 - All commercial airports open with significant flight delays. All travelers should contact airlines before attempting to go to the airport to ensure their flights are still scheduled. Eastern NC airports mostly operating normally. Charlotte and Asheville experiencing delays due to backlog of passengers who missed flights in last two days.

3 inmate crews have been sent to Elizabeth City for clean up.
1 inmate crew has been sent to McDowell for clean up.
120 inmates were evacuated from Halifax County.

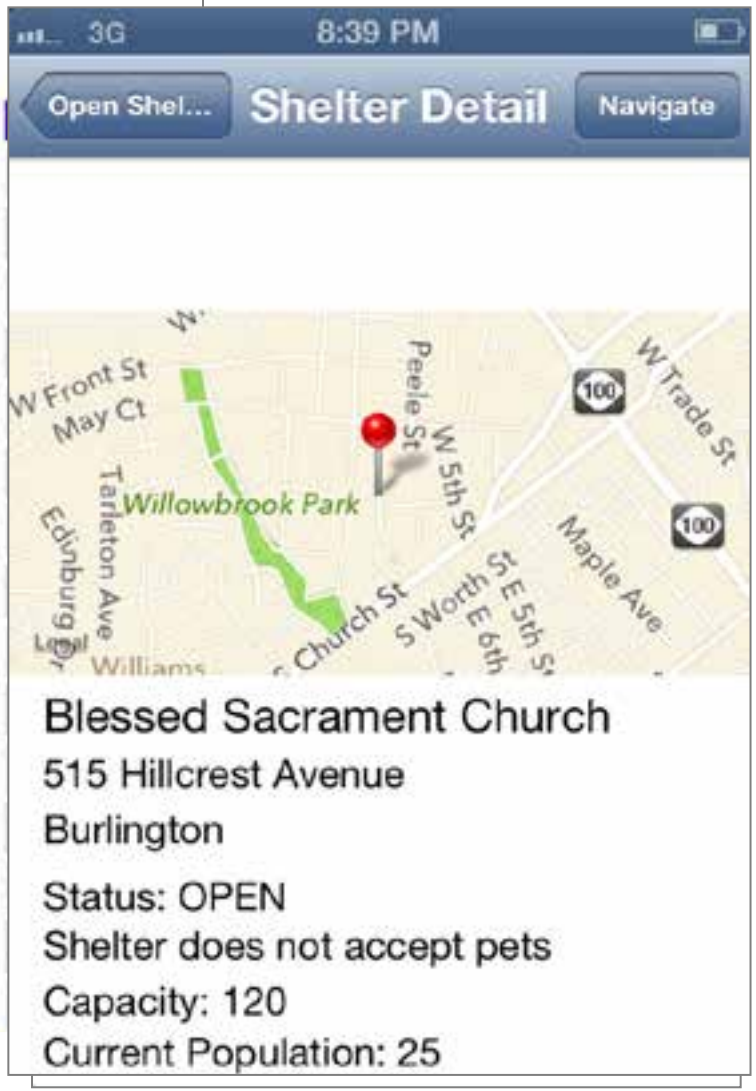
Displaying NC SPARTA Data in readync app

NC SPARTA

County Shelter Summary List

Sorted by County | Sort by Branch

County	Branch	Open Shelters	Capacity	Occupancy	Available Spaces
Alamance	Central	2	3,351	125	3,226
Alexander	Western	0	2,768	0	2,768
Alleghany	Western	0	803	0	803
Anson	Central	0	300	0	300
Ashe	Western	0	1,459	0	1,459
Avery	Western	0	680	0	680
Beaufort	Eastern	0	2,580	0	2,580
Bertie	Eastern	0	570	0	570
Bladen	Eastern	0	1,757	0	1,757
Brunswick	Eastern	0	4,124	0	4,124
Buncombe	Western	0	4,975	0	4,975
Burke	Western	0	300	0	300
Cabarrus	Western	0	17,532	0	17,532
Caldwell	Western	0	2,780	0	2,780
Camden	Eastern	0	150	0	150



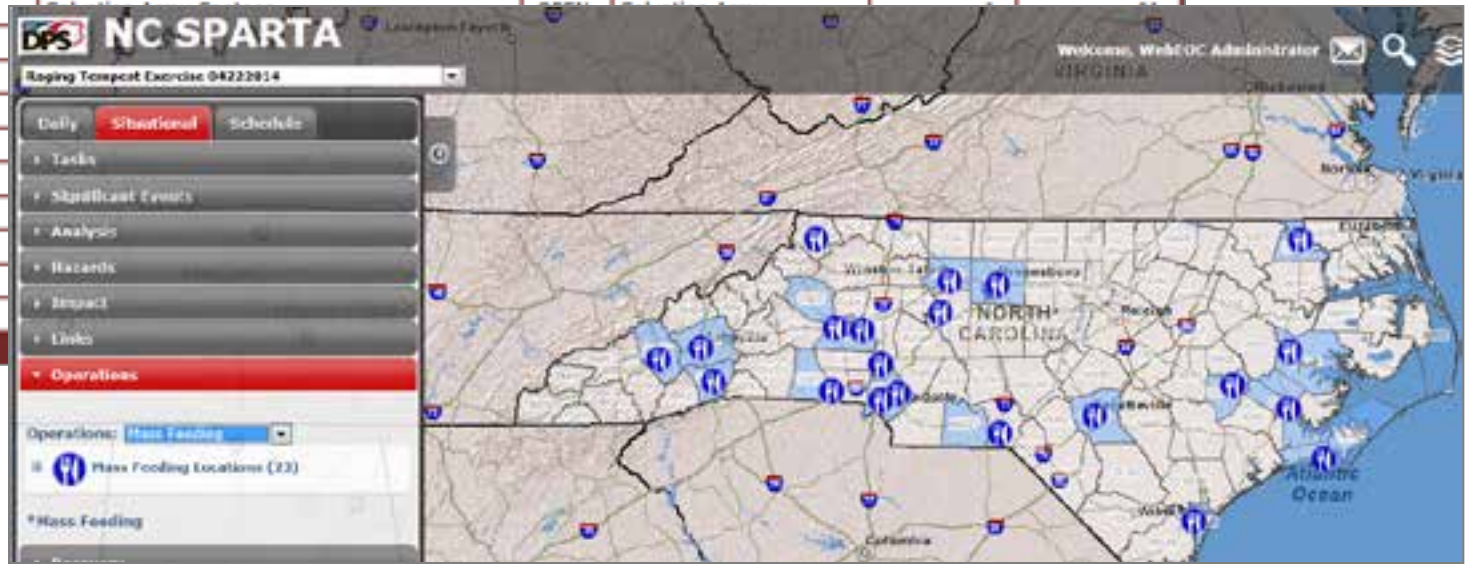
Mass Feeding – Board & Workstation Viewer

NC SPARTA — Mass Feeding Summary

Workstation Viewer | Lookup Table | Add Site | Feeding Report

Incident: Raging Tempest Exercise 04222014

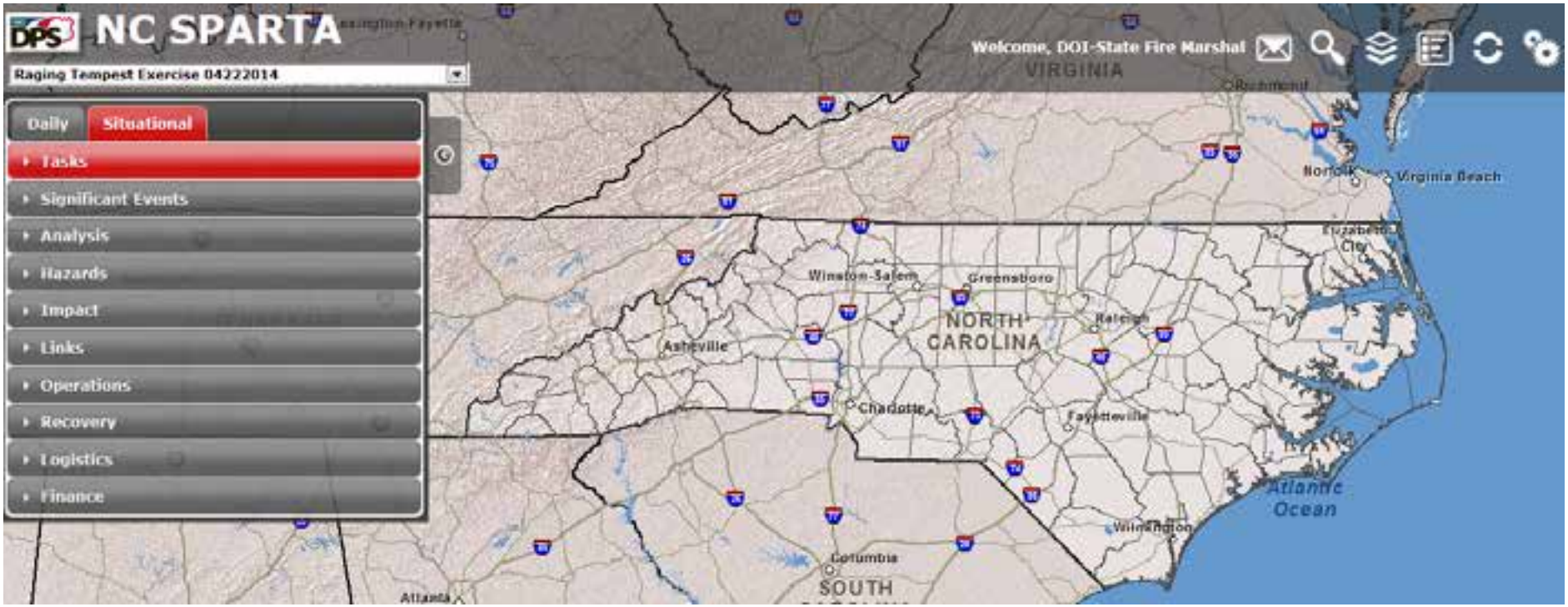
County	City	Site Name	Status	Lead Agency	Meals Served	Estimated Cost
Anson	Lexington	Reeds BC - NC K-3	OPEN	American Red Cross	151	$453
Anson	Rockingham	Pine Grove BC - TX K-1	OPEN	American Red Cross	1	$3
Beaufort	Washington	Salvation Army Canteen	OPEN	Salvation Army	1	$1
Beaufort	Washington	Washington Corps/Washington Canteen	OPEN	Salvation Army	1	$0
Buncombe	Asheville	Salvation Army Canteen	OPEN	Salvation Army	1	$1
Caldwell	Lenoir	Lenoir FBC - MO K-1	OPEN	American Red Cross	1	$3
Carteret	Morehead City	Salvation Army Canteen	OPEN	Salvation Army	1	$1
Catawba	Catawba	Catawba UMC Family Life Center	OPEN	Salvation Army	100	$100
Catawba	Hickory	Salvation Army Canteen	OPEN	Salvation Army	1	$1
Cleveland	Kings Mountain	Kings Mountain BC	OPEN	American Red Cross	1	$3
Craven	New Bern					
Cumberland	Fayetteville					
Cumberland	Fayetteville					
Forsyth	Winston-Salem					
Guilford	Greensboro					
Haywood	Waynesville					
Henderson	Hendersonville					
Hertford	Winton					
Lenoir	Kinston					
Mecklenburg	Charlotte					



WebFusion

- Tool used to exchange data between licensed users
- In process of connecting with NC counties
- Duke Energy – Hydro established
- Intend to connect all power providers to exchange nuclear information
- Working to establish connectivity with FEMA Region III and IV states
  - Shelter Data
  - Traffic
  - Flooding

Workstation Viewer



Situational

Tasks: Tasks assigned to user
Significant Events: Posted by all users
Analysis: Maps/Analysis
Hazards: Weather & Flood Gauges
Impact: County Summary, Shelters

Links: Various websites
Operations: Shelters, Vendor ReEntry, Mass Feeding, Power
Recovery: IA and PA
Logistics: Open PODs and CRDPs
Finance: Finance Report

Upcoming Modifications

Cross Browser Compatibility

- Intermedix is working on 3 boards to ensure compatibility

WebFusion

Tool used to exchange data between licensed users

In process of connecting with NC counties

Working to establish connectivity with FEMA Region III and IV states

- Shelter Data
- Traffic
- Flooding

Single Server Logins

- Moving away from logging in as a “role”. Will use ncid

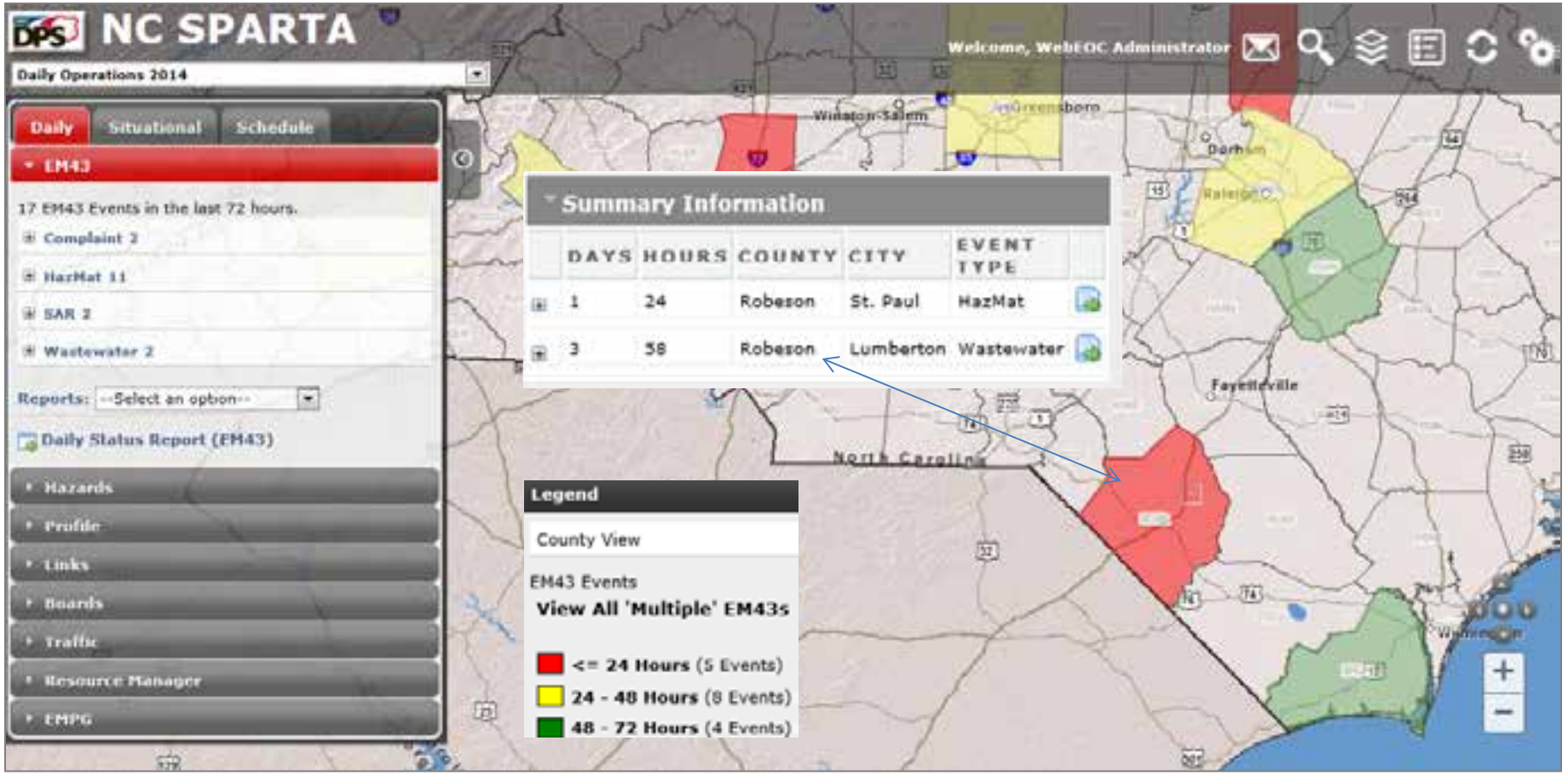
Workstation Viewer

- Printing a snapshot
- Adding ArcGIS online capabilities

Workstation Viewer

- Provides Common Operating Picture
- Display daily incidents
- Track Tasks
- Consume webservices (weather, gagues, DOT and Public Health)
- GIS Analysis
- Situational Intelligence during incidents such as county impact, shelter status, mass feeding sites…..
- Visualize preliminary damage assessment
- Reporting (Finance, EM43, County Profile…)
- GIS Datasets
- EOC Operational Timeline

Situational Intelligence – Daily Incidents

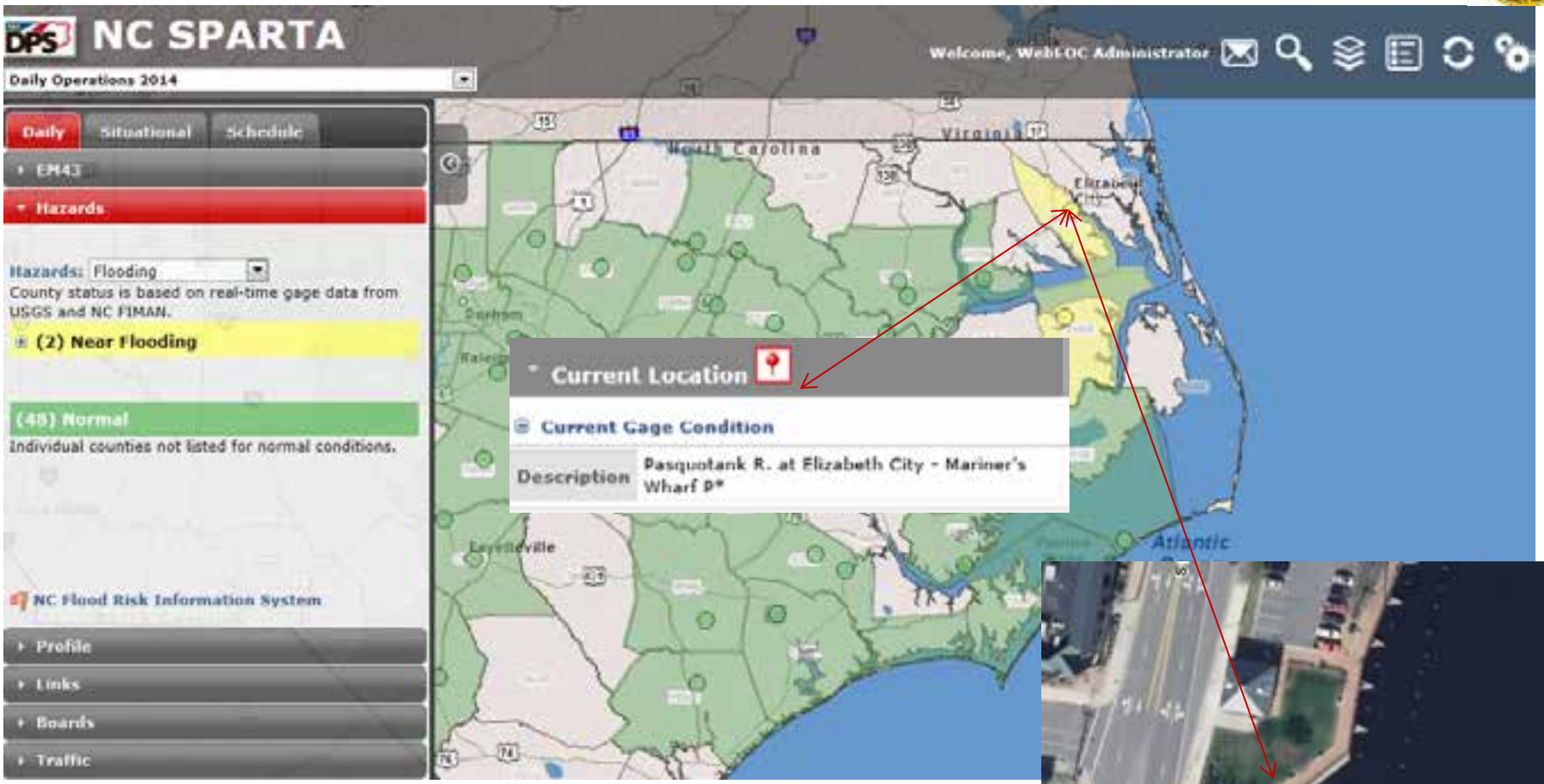


Daily Tab

EM43: Daily incidents
Hazards: NWS alerts & Flooding status
Profile: County Profile data, maps and reports
Links: Links to various websites

Boards: Options to open boards
Traffic: Current DOT traffic and cameras
Resource Manager: Deployed resources
EMPG: EM Performance Grant Tracking

Situational Intelligence – Flood Gauges



Flood gauge information is an RSS feed
Data is available for gauges not at a normal height
Users can zoom to see gauge site overlaid on imagery

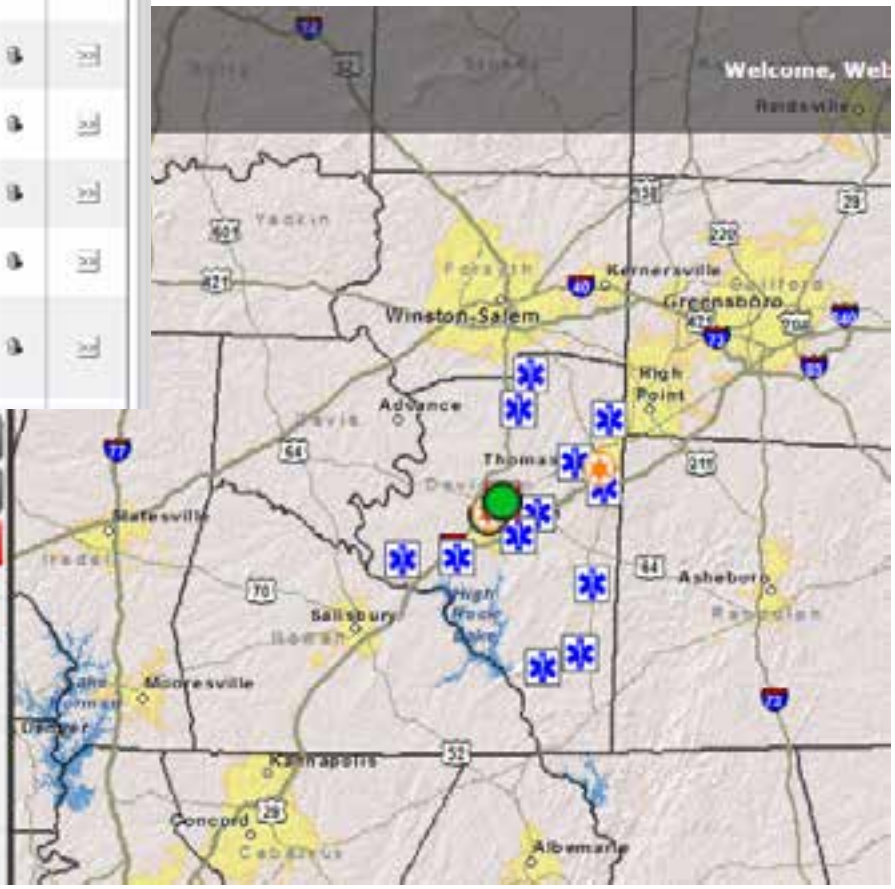
Situational Intelligence – Deployable Resources

Resource Inventory

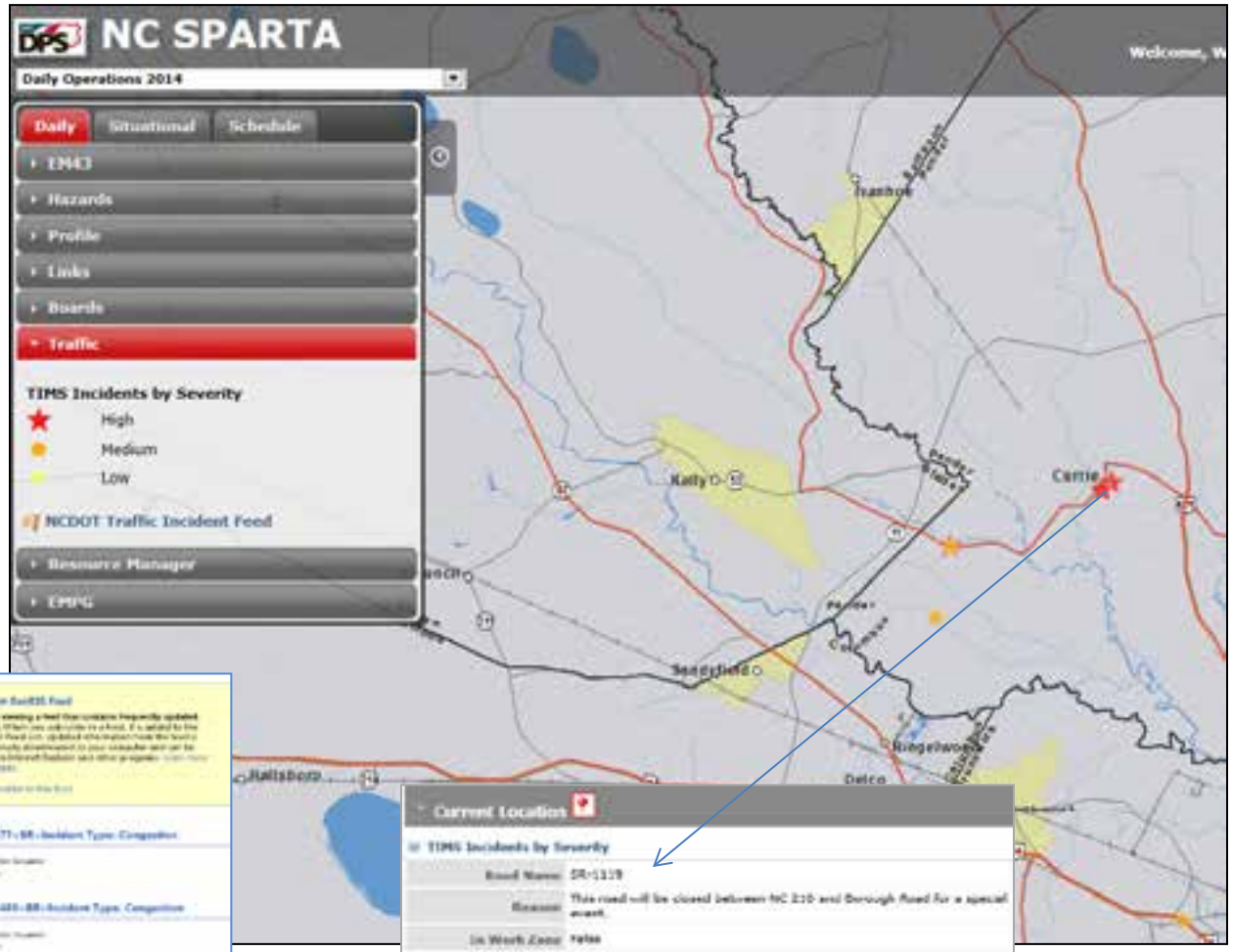
Select Search Type: Resource Name | Clear | Search

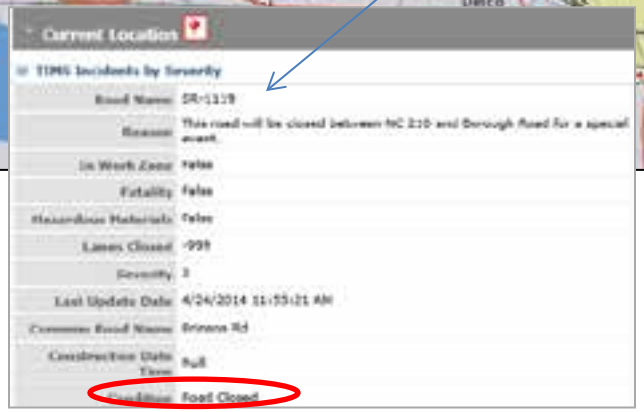
My Resources | Others Resources | My Bundled Resources | Others Bundled Resources

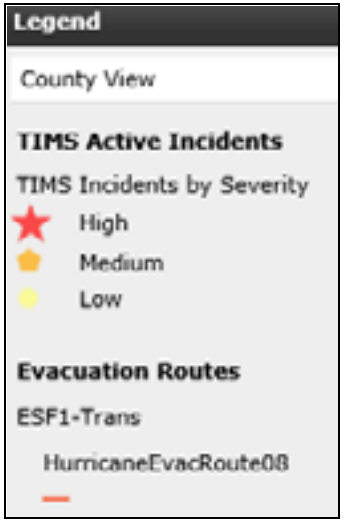
Resource Name	Owner	Location Name	Address	Jurisdiction/Zone	Available	Committed	Type	Delete	Request
Ambulance	Davidson	Emergency Services	North Main Street, Lexington, Davidson, North Carolina, 27292, United States of America	Davidson	4	0	Ambulances (Ground), Type I		
Brush Truck	Davidson	Southmont Fire Dept	10031 NC Hwy 8, Lexington, NC 27292	Davidson	1	0	Brush Patrol, Firefighting (Type VI Engine), Type Other		
Brush Truck	Davidson	Healing Springs Fire Dept	18034 NC Highway 8, Denton, NC 27239	Davidson	1	0	Brush Patrol, Firefighting (Type VI Engine), Type Other		
Brush Truck	Davidson	Holly Grove Fire Dept	2211 West Holly Grove Road, Lexington, NC 27292	Davidson	1	0	Brush Patrol, Firefighting (Type VI Engine), Type Other		
Brush Truck	Davidson	North Lexington Triangle Fire Dept	2576 Greensboro Road Ext, Lexington, NC 27292	Davidson	1	0	Brush Patrol, Firefighting (Type VI Engine), Type Other		
CAMET	Davidson	Emergency Management	North Main Street, Lexington, Davidson, North Carolina, 27292, United States of America	Davidson	1	0	Animal Protection: Small Animal Sheltering Team, Type I		



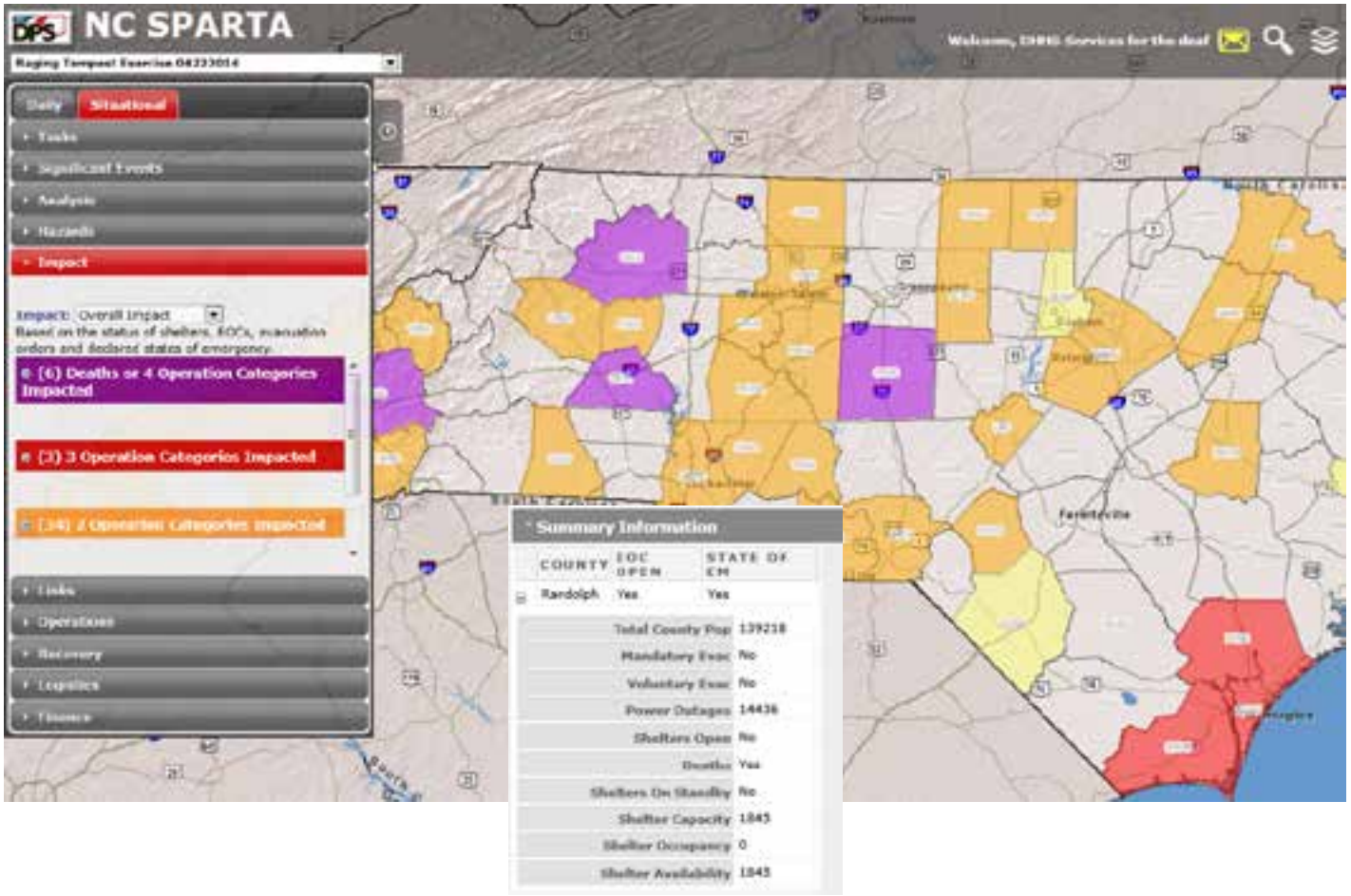
Situational Intelligence – Traffic







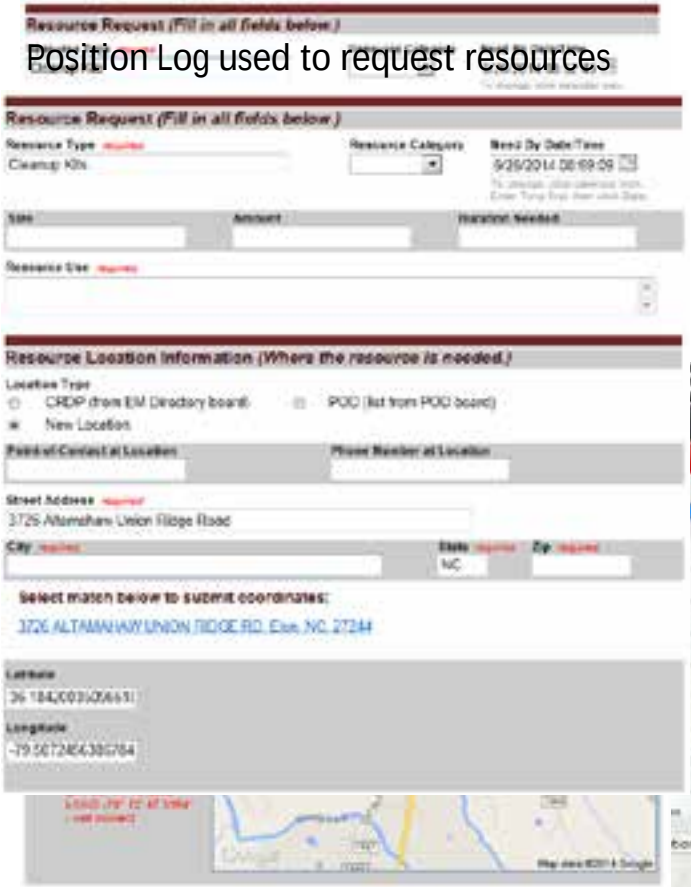
Situational Intelligence – Response & Recovery

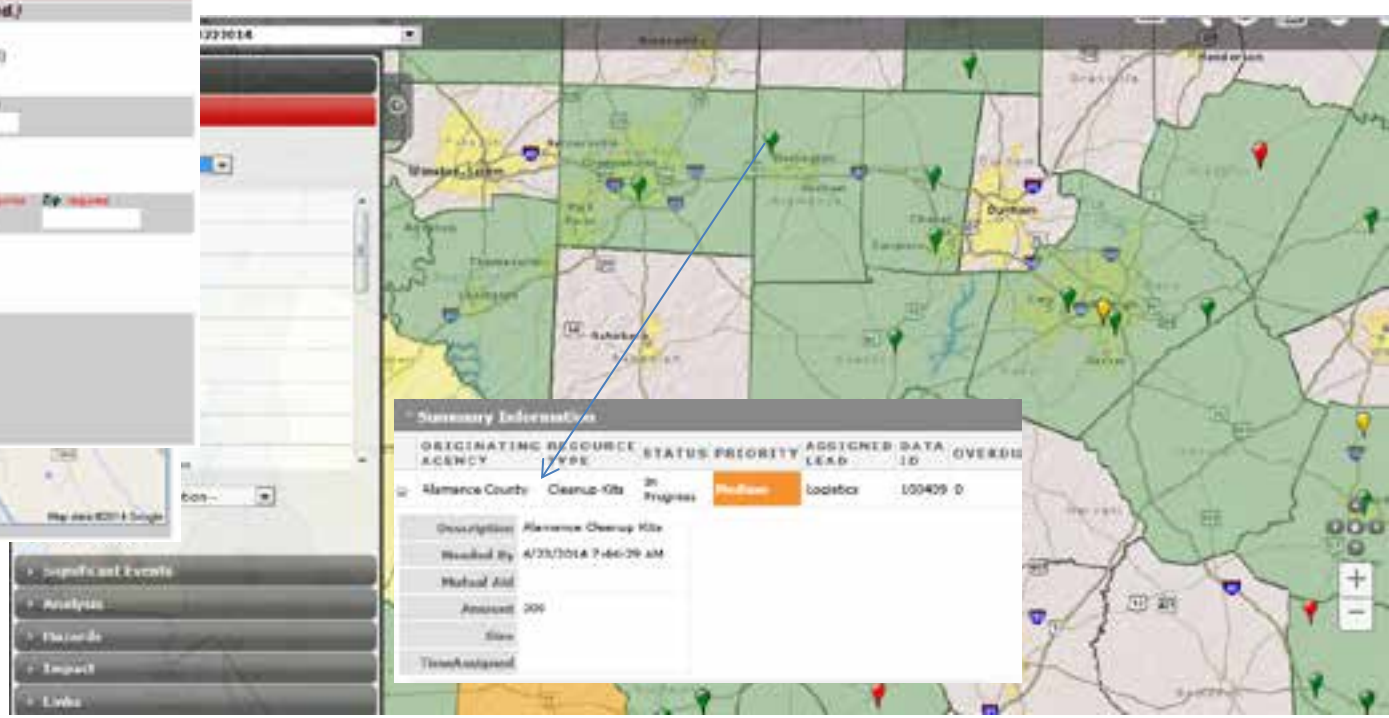


Situational Tabs depict data related to Tasks, Significant Information, Analysis, Sheltering, Mass Feeding, Logistics, Recovery and Finance

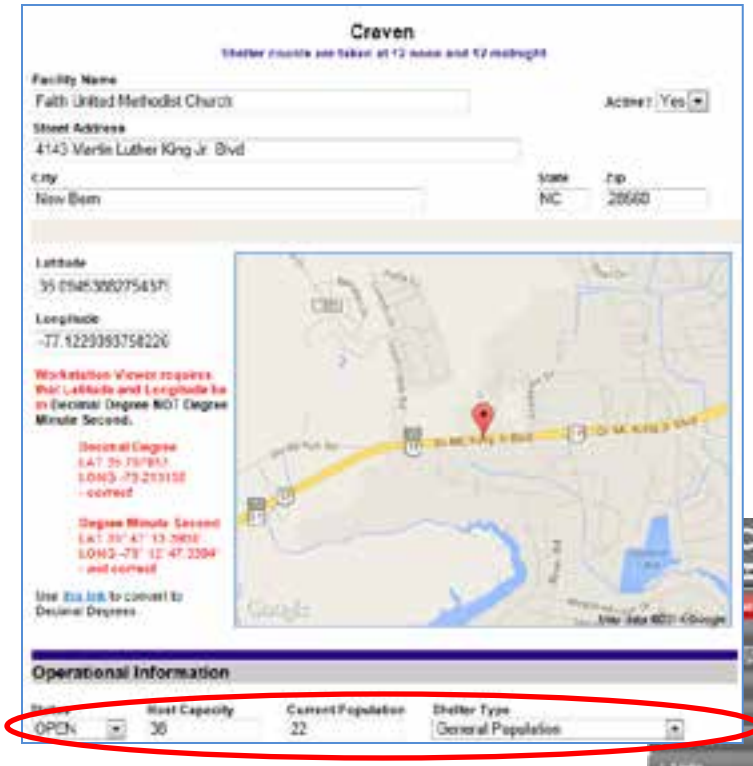
Situational Intelligence – Tracking Tasks

Position Log used to request resources

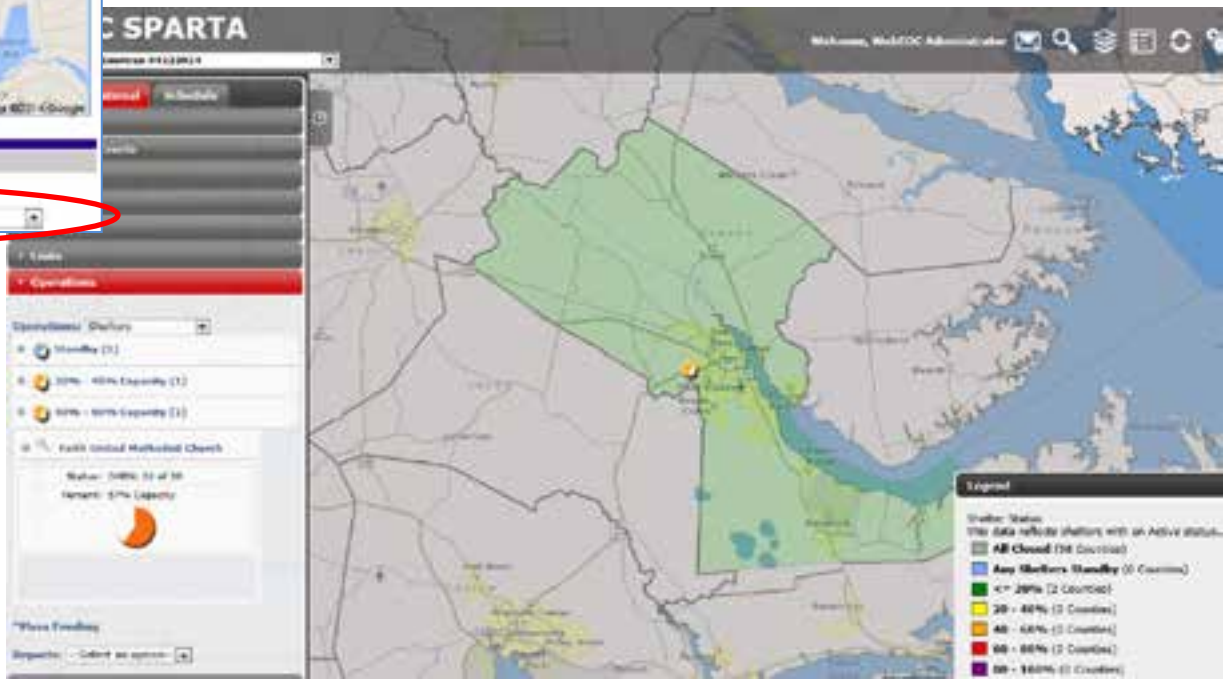




Situational Intelligence – Tracking Shelters



Counties maintain Shelter data in a board. Each is geocoded and is displayed on the workstation viewer when the shelter has a status of open, full or standby. The Governor's hotline monitors the workstation viewer for a current list of open shelters to provide evacuation information during incidents.



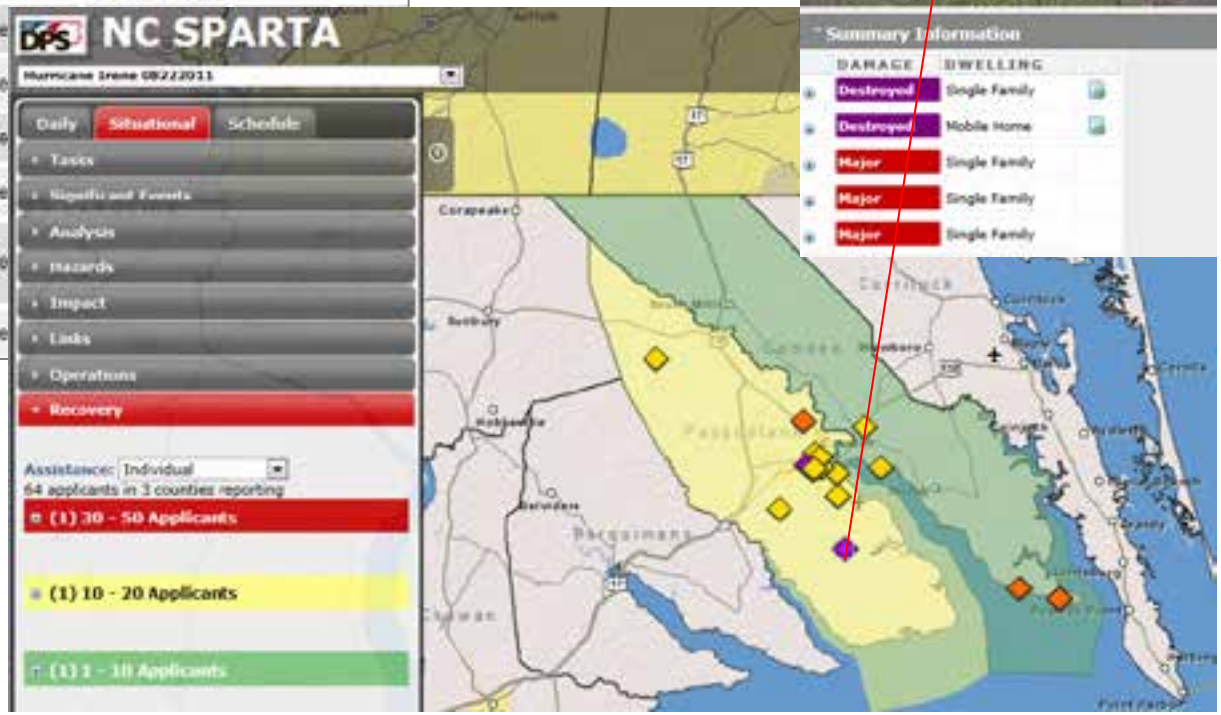
Situational Intelligence – Damage Assessment

NC SPARTA

IA County Summary - Pasquotank

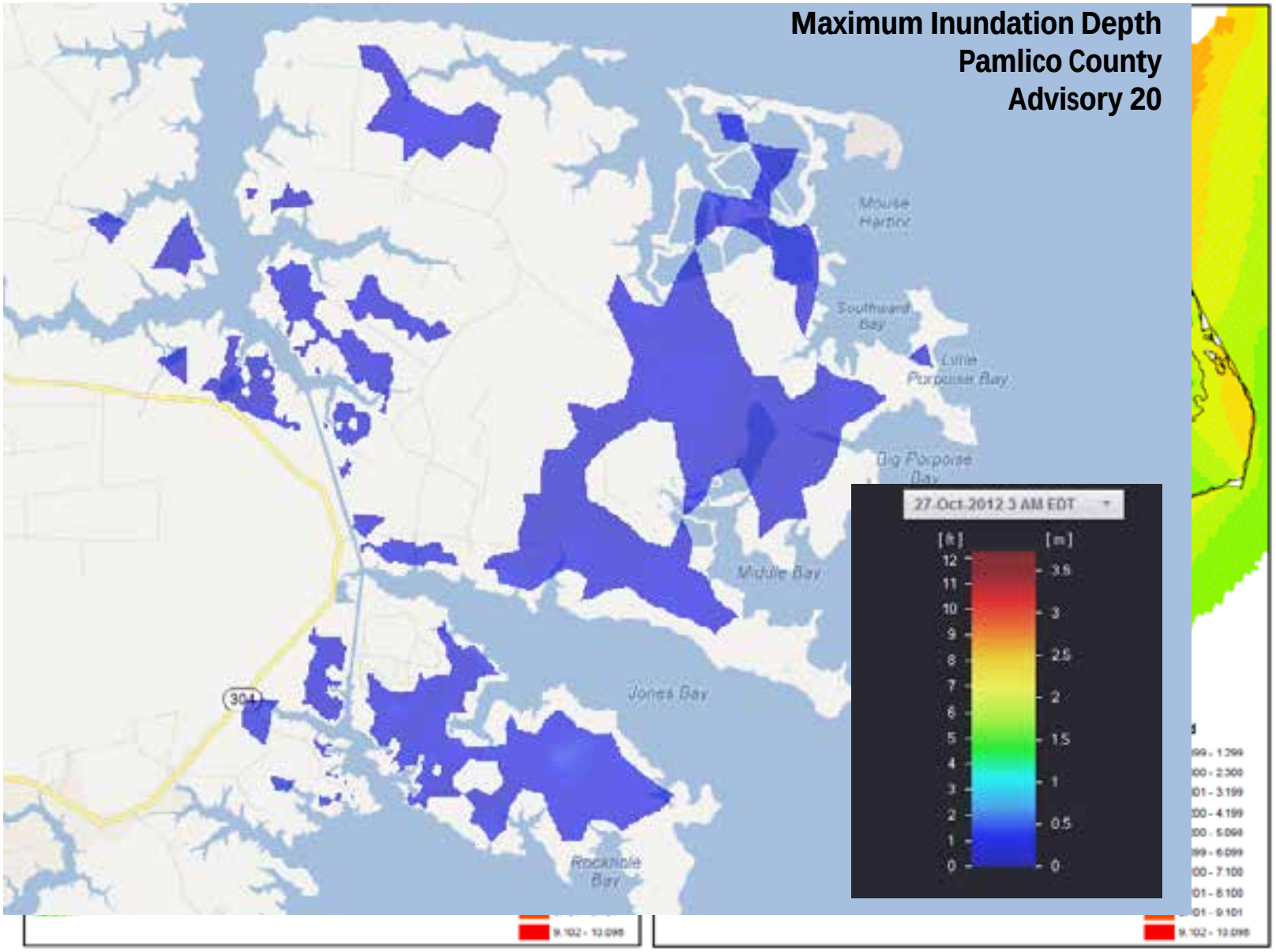
Hurricane Irene 08222011

Name	City	Degree of Damage	Dwelling Type	Attachments	Verified?	[?]
	Elizabeth City	Major	Single Family			Edit
	Elizabeth City	Habitable	Single Family			Edit
	Elizabeth City	Habitable	Single Family			Edit
	Elizabeth City	Destroyed	Single Family	Attachment Liberator st.JPG		Edit
	Elizabeth City	Major	Single Family			Edit
	Elizabeth City	Habitable	Single Family			Edit
	Elizabeth City	Destroyed	Mobile Home	Attachment Peartree Rd.jpg		Edit
	Elizabeth City	Major	Single			
	Elizabeth City	Habitable	Single			
	Elizabeth City	Habitable	Single			
	Elizabeth City	Major	Single			
	Elizabeth City	Minor	Single			
	Elizabeth City	Major	Single			

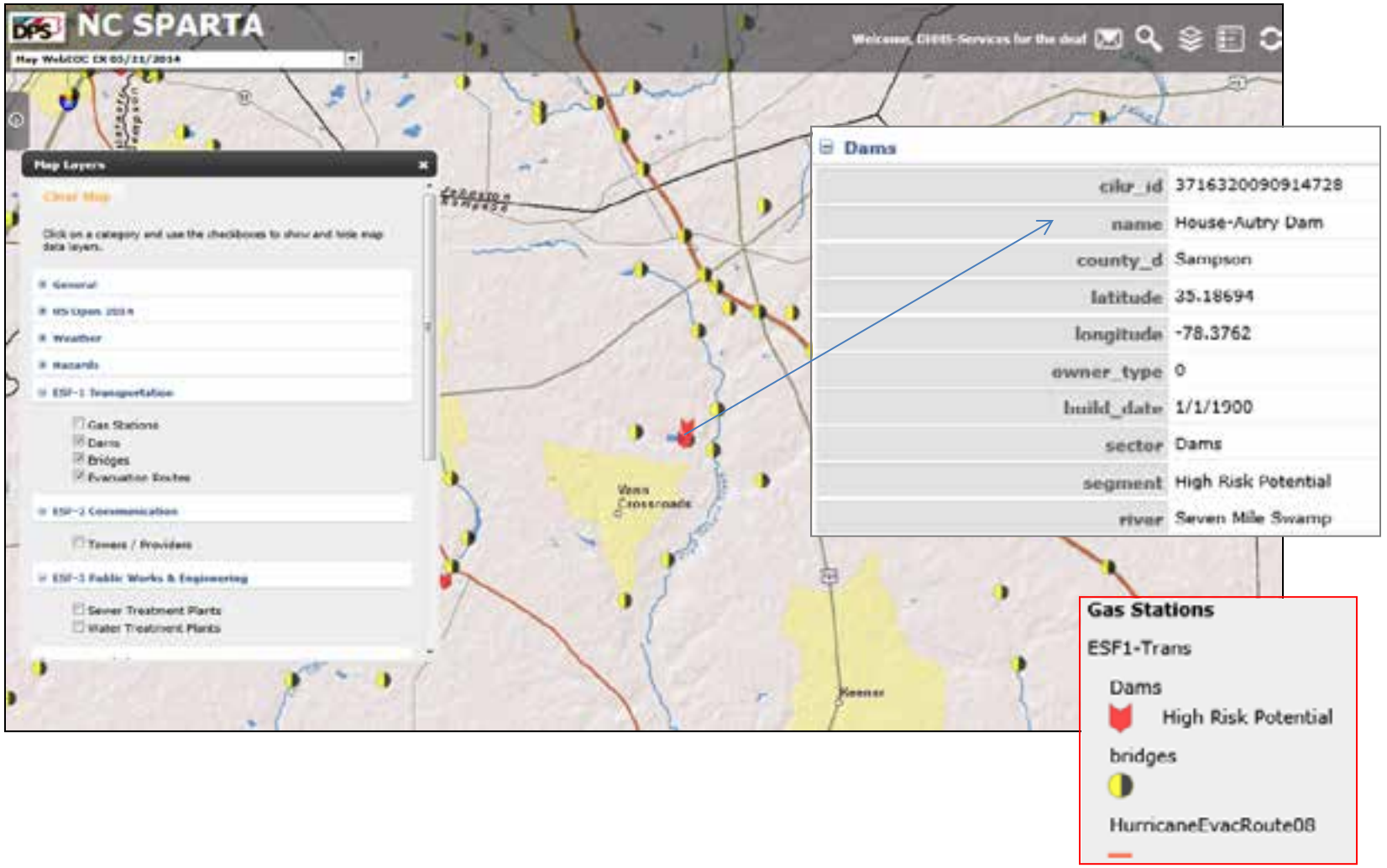


Situational Intelligence – GIS Analysis

Advisory Number **Advisory 31** **Advisory 30**



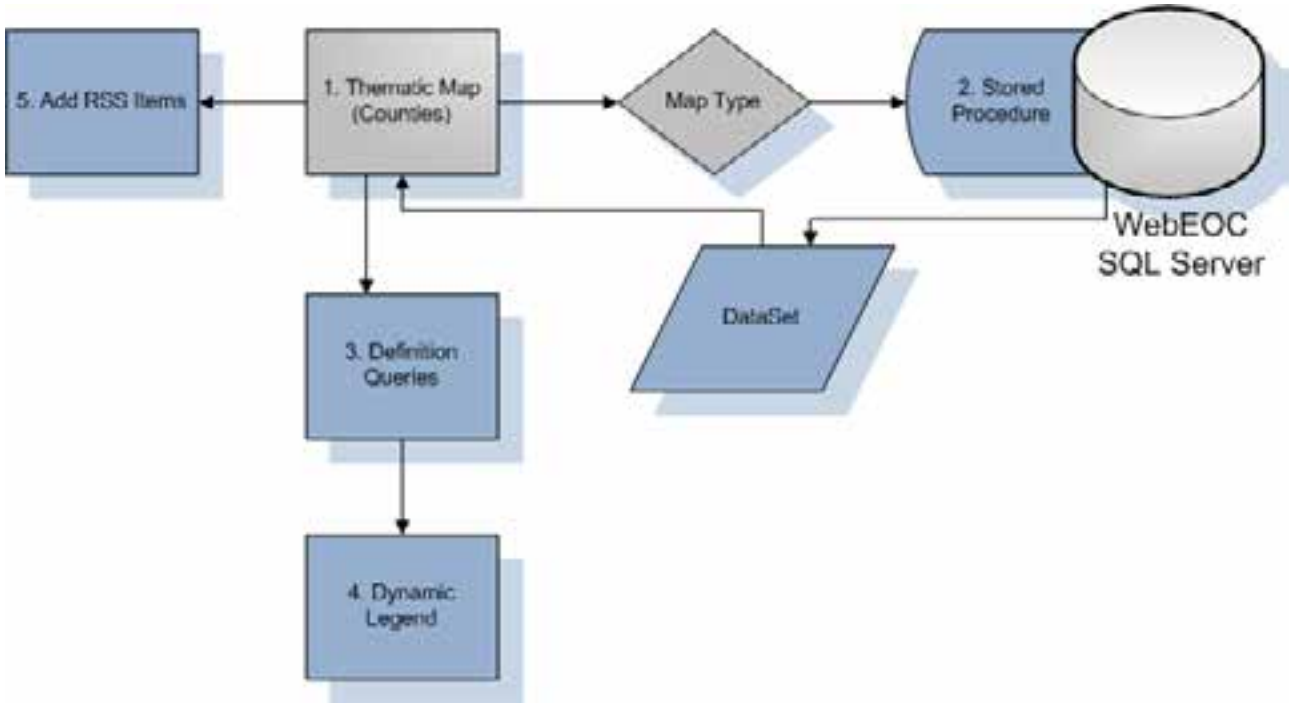
GIS Datasets



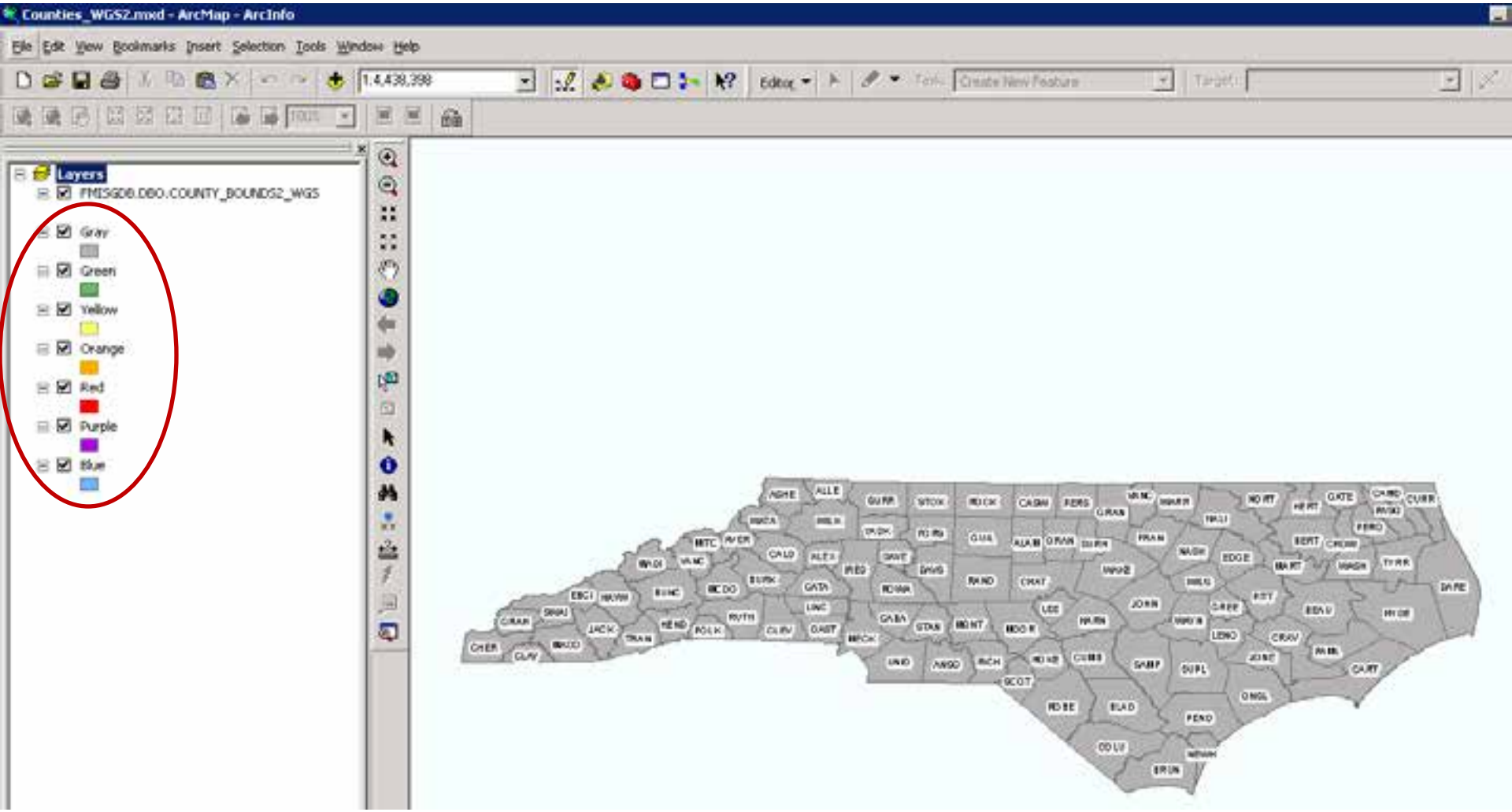
NC SPARTA
Map Viewer Basics

- Built with JavaScript API
- ArcGIS Server Services (Counties & Base Map)
- Creates and uses RSS XML for county symbology
- Consumes external RSS feeds (NWS, FIMAN)
- Consumes external WMS feeds (NEXRAD)

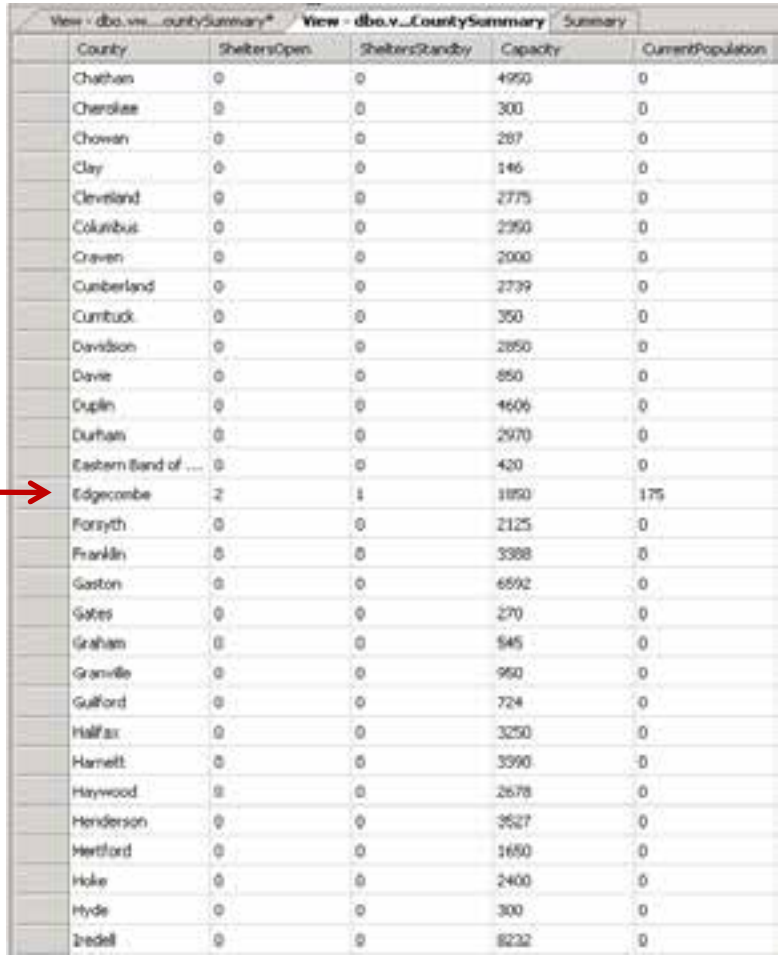
NC SPARTA
RSS Service Workflow



Counties Map
ArcGIS Server Service



Shelters Dataset



County	SheltersOpen	SheltersStandby	Capacity	CurrentPopulation
Chatham	0	0	4950	0
Cherokee	0	0	300	0
Chowan	0	0	287	0
Clay	0	0	146	0
Cleveland	0	0	2775	0
Columbus	0	0	2350	0
Craven	0	0	2000	0
Cumberland	0	0	2739	0
Currituck	0	0	350	0
Davidson	0	0	2850	0
Davie	0	0	850	0
Duplin	0	0	4606	0
Durham	0	0	2970	0
Eastern Band of ...	0	0	420	0
Edgecombe	2	1	1850	175
Forsyth	0	0	2125	0
Franklin	0	0	3388	0
Gaston	0	0	6592	0
Gates	0	0	270	0
Graham	0	0	545	0
Granville	0	0	950	0
Guilford	0	0	724	0
Halifax	0	0	3250	0
Harnett	0	0	3390	0
Haywood	0	0	2678	0
Henderson	0	0	3627	0
Hertford	0	0	1650	0
Hoke	0	0	2400	0
Hyde	0	0	300	0
Iredell	0	0	8232	0

```
@IncidentID varchar(20)
AS
SET NOCOUNT ON
SELECT CASE
    WHEN v.SHELTERSSTANDBY > 0 THEN 6
    WHEN v.SHELTERSOPEN = 0 THEN 0
    WHEN ((v.CurrentPopulation * 100 / v.Capacity ) < 20)  THEN 1
    WHEN ((v.CurrentPopulation * 100 / v.Capacity ) >= 20 AND
(v.CurrentPopulation * 100 / v.Capacity ) < 40) THEN 2
    WHEN ((v.CurrentPopulation * 100 / v.Capacity ) >= 40 AND
(v.CurrentPopulation * 100 / v.Capacity ) < 60) THEN 3
    WHEN ((v.CurrentPopulation * 100 / v.Capacity ) >= 60 AND
(v.CurrentPopulation * 100 / v.Capacity ) < 80) THEN 4
    WHEN ((v.CurrentPopulation * 100 / v.Capacity ) >= 80) THEN 5
                ELSE 0 END AS SCORE,
                v.COUNTY,  (v.CurrentPopulation * 100 / v.Capacity ) AS
PercentCapacity, COUNTY_SUMMARY.DEATHS
FROM VW_ShelterCountySummary as v, table_271 AS COUNTY_SUMMARY
WHERE UPPER (COUNTY_SUMMARY.COUNTYNAME) = UPPER(v.COUNTY)
AND COUNTY_SUMMARY.incidentid = @IncidentID
AND COUNTY_SUMMARY.prevdataid = 0
ORDER BY v.COUNTY
RETURN
```

Shelter County Summary
SQL View

Shelters – Percent Capacity By County
SQL Stored Procedure

Stored Procedure Results

Results | Messages

	SCORE	COUNTY	PercentCapacity	DEATHS
22	0	Clay	0	No
23	0	Cleveland	0	No
24	0	Columbus	0	No
25	0	Craven	0	No
26	0	Cumberland	0	Yes
27	0	Currituck	0	No
28	0	Davidson	0	No
29	0	Davie	0	No
30	0	Duplin	0	No
31	0	Durham	0	No
32	0	Eastern Band ...	0	No
33	6	Edgecombe	9	No
34	0	Forsyth	0	No
35	0	Franklin	0	No
36	0	Gaston	0	No
37	0	Gates	0	No
38	0	Graham	0	No
39	0	Granville	0	No
40	0	Guilford	0	Yes
41	0	Halifax	0	No
42	0	Harnett	0	No
43	0	Haywood	0	No
44	0	Henderson	0	No
45	0	Hertford	0	No
46	0	Hoke	0	No

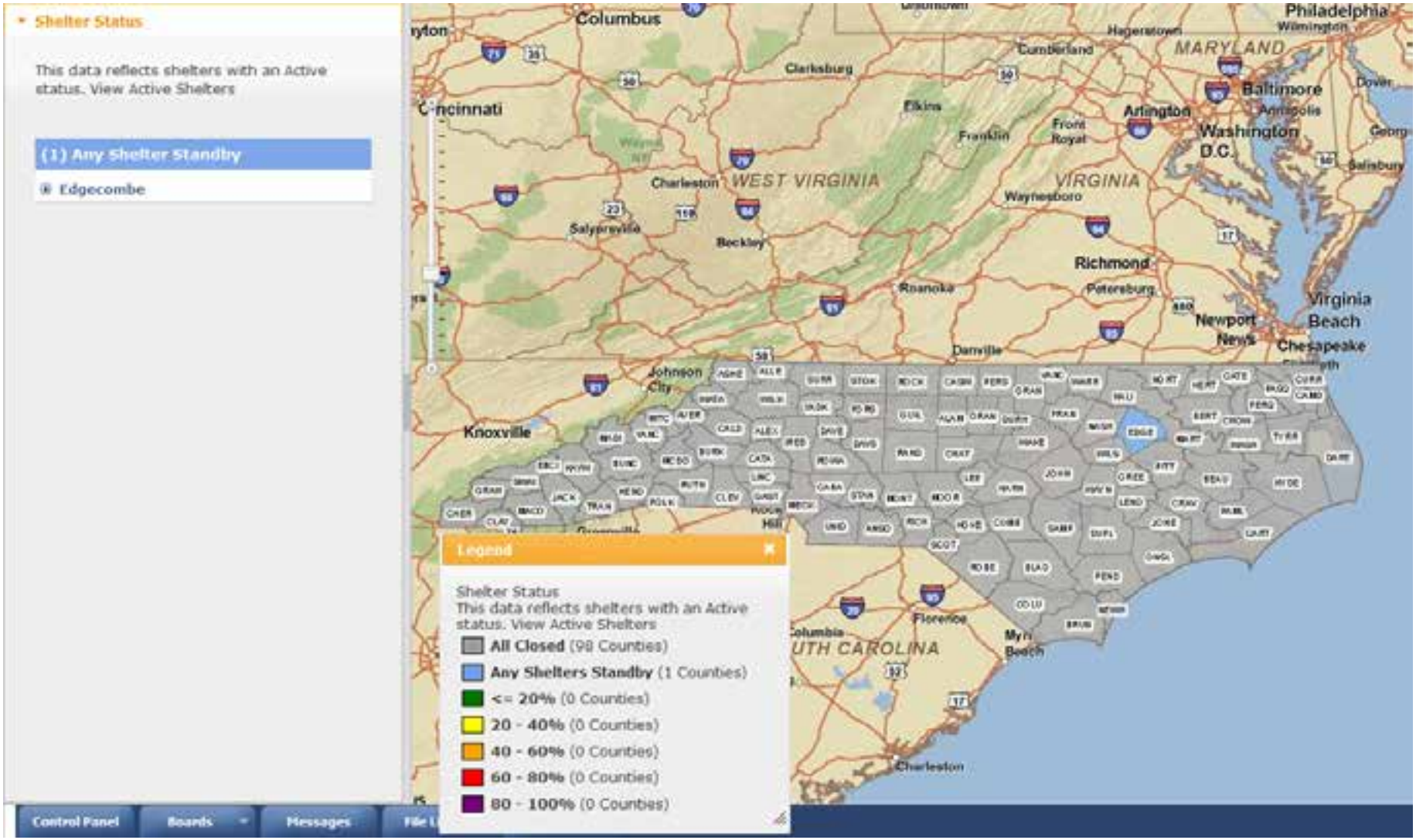
Scores & Colors on the Map
ThematicMap.cs

```
case "SHELTERSPERCENTCAPACITY":
        dt = Database.getHumanServices_SheltersPercentCapacityByCounty(EventID);
        gray = "SCORE = 0";
        green = "SCORE = 1";
        yellow = "SCORE = 2";
        orange = "SCORE = 3";
        red = "SCORE = 4";
        blue = "SCORE = 6";
        purple = "SCORE = 5";
            grayLabel = "All Closed";
            blueLabel = "Any Shelter Standby";
            greenLabel = "<= 20% Capacity";
            yellowLabel = "20-40% Capacity";
            orangeLabel = "40-60% Capacity";
            redLabel = "60-80% Capacity";
            purpleLabel = "80-100% Capacity";
        title = "Shelter Status";
        description = "This data reflects shelters with an Active status.
                    <a href='javascript:showShelters();'>View Active Shelters</a>";
        break;
```

RSS XML

```
<?xml version="1.0" encoding="utf-8" ?>
- <channel>
  <maptitle>Shelter Status</maptitle>
  <subtitle />
  <legend><span class=LegendTitle >Shelter Status</span><br><span class=LegendDescription>This data reflects shelters with an Active
    status. <a href='javascript:showShelters();'>View Active Shelters</a></span><br><table><tr><td><img
    src="Images/GRAY.png"></td><td><strong>All Closed</strong> (100 Counties)</td></tr><tr><td><img
    src="Images/LIGHTBLUE.png"></td><td><strong>Any Shelters Standby</strong> (1 Counties)</td></tr><tr><td><img
    src="Images/GREEN.png"></td><td><strong><= 20%</strong> (0 Counties)</td></tr><tr><td><img
    src="Images/YELLOW.png"></td><td><strong>20 - 40%</strong> (0 Counties)</td></tr><tr><td><img
    src="Images/ORANGE.png"></td><td><strong>40 - 60%</strong> (0 Counties)</td></tr><tr><td><img
    src="Images/RED.png"></td><td><strong>60 - 80%</strong> (0 Counties)</td></tr><tr><td><img
    src="Images/PURPLE.png"></td><td><strong>80 - 100%</strong> (0 Counties)</td></tr></table></legend>
  <mapdescription>This data reflects shelters with an Active status. <a href='javascript:showShelters();'>View Active
    Shelters</a></mapdescription>
  <copyright>Copyright 2009 North Carolina Department of Emergency Management</copyright>
  <item>
    <title>GRAY</title>
    <pubDate>2/15/2011 10:43:38 AM</pubDate>
    <link />
    <category>(100) All Closed</category>
    <guid />

      <description>'Alamance','Alexander','Alleghany','Anson','Ashe','Avery','Beaufort','Bertie','Bladen','Brunswick','Buncombe','Burke','Cabarrus','Caldw
      Hanover','Northampton','Onslow','Orange','Pamlico','Pasquotank','Pender','Perquimans','Person','Pitt','Polk','Randolph','Richmond','Robeson','Rock
  </item>
- <item>
    <title>BLUE</title>
    <pubDate>2/15/2011 10:43:38 AM</pubDate>
    <link />
    <category>(1) Any Shelter Standby</category>
    <guid />
    <description>'Edgecombe'</description>
  </item>
</channel>
```


Shelter Status
This data reflects shelters with an Active status. View Active Shelters
(1) Any Shelter Standby
Edgecombe
Legend
Shelter Status
This data reflects shelters with an Active status. View Active Shelters
All Closed (98 Counties)
Any Shelters Standby (1 Counties)
<= 20% (0 Counties)
20 - 40% (0 Counties)
40 - 60% (0 Counties)
60 - 80% (0 Counties)
80 - 100% (0 Counties)
Control Panel
Boards
Messages
Columbus
Cincinnati
Clarksburg
Elkins
Cumberland
Hagerstown
Philadelphia
Wilmington
MARYLAND
Baltimore
Annapolis
Dover
Arlington
Washington D.C.
Salisbury
Franklin
Front Royal
Charleston
WEST VIRGINIA
VIRGINIA
Waynesboro
Beckley
Richmond
Petersburg
Roanoke
Newport News
Virginia Beach
Chesapeake
Danville
Johnson City
Knoxville
Florence
Myrtle Beach
Columbia
Charleston

Additional Tools

- Custom reports using SQL Reporting Services.
- Integration of EMPG tracking through custom WebEOC boards and SharePoint file libraries.
- Integration of external RSS Feeds and map services – Public Water Supply, NC National Guard, Other SERT Partners.