# GEOGRAPHIC INFORMATION SYSTEMS FIELD DATA COLLECTION TEAM

**DESCRIPTION**
The Geographic Information Systems (GIS) Field Data Collection Team is responsible for using mobile data collection devices to gather GIS data in the field prior to, during, and after an incident. This resource also supports the integration of the GIS-enabled field data into maps and situational awareness tools.

**RESOURCE CATEGORY**
Geographic Info Systems and Info Technology

**RESOURCE KIND**
Team

**OVERALL FUNCTION**
The GIS Field Data Collection Team:
1. Actively collects data from the field with hardware and software, or passively collects data with other Global Positioning System (GPS) capable mobile data collection devices
2. Collects and integrates relevant GIS field data is into maps and situational awareness tools for incident management personnel and decision makers to use

**COMPOSITION AND ORDERING SPECIFICATIONS**
1. Discuss logistics for deploying this team, such as security, lodging, transportation, and meals prior to deployment
2. This team typically works 12 hours per shift, is self-sustainable for 72 hours, and is deployable for up to 14 days
3. Order a GIS Map Support Team to convert GIS Field Data Collection Team-collected field data into maps for situational awareness and decision making
4. The team should have internet access through a local area or wireless network

Each type of resource builds on the qualifications of the type below it. For example, Type 1 qualifications include the qualifications in Type 2, plus an increase in capability. Type 1 is the highest qualification level.

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<th>COMPONENT</th>
<th>TYPE 1</th>
<th>TYPE 2</th>
<th>NOTES</th>
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| EQUIPMENT PER TEAM MEMBER COMMUNICATIONS | Same as Type 2 | 1. Cell phone  
2. Portable radio | Consider alternate forms of communication, such as satellite phones, based on the mission assignment and team needs. |
| EQUIPMENT PER TEAM MEMBER FIELD DATA COLLECTION | Same as Type 2 | Mobile data collection devices | Mobile data collection devices depend on internet connectivity. Mobile data collection device examples include tablets and smartphones with GPS capability, cameras, and the ability to communicate with GIS software and data. |
| EQUIPMENT PER TEAM MEMBER INFORMATION TECHNOLOGY | Same as Type 2 | Laptop | Laptops should be workstation-grade and include GIS viewing software, production software, editing software, and analysis software. |
| EQUIPMENT PER TEAM STORAGE AND DISTRIBUTION | Same as Type 2 | 1 - Server | Not Specified |
| EQUIPMENT PER TEAM TRANSPORTATION | Same as Type 2, PLUS:  
3 - Vehicles | 2 - Vehicles | Vehicles should have 4-wheel drive capable of operating in an incident area and have an inverter to power computer hardware. Team can use vehicles as workspaces if no fixed facilities or other locations exist to house team and equipment. |
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<tbody>
<tr>
<td>PERSONNEL PER TEAM MANAGEMENT AND OVERSIGHT</td>
<td>Same as Type 2</td>
<td>1 - National Incident Management System (NIMS) Type 1 GIS Analyst</td>
<td>Not Specified</td>
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<td>PERSONNEL PER TEAM MINIMUM</td>
<td>8</td>
<td>4</td>
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<tr>
<td>PERSONNEL PER TEAM OPERATIONS AND SUPPORT</td>
<td>Same as Type 2, PLUS: 1 - NIMS Type 2 GIS Analyst 3 - NIMS Type 1 Field Data Entry Technician</td>
<td>1 - NIMS Type 2 GIS Analyst 2 - NIMS Type 1 Field Data Entry Technician</td>
<td>The requestor may increase the number of people assigned to collect data.</td>
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NOTES
Nationally typed resources represent the minimum criteria for the associated component and capability.

REFERENCES
1. FEMA, NIMS 509: GIS Analyst
2. FEMA, NIMS 509: GIS Field Data Entry Technician