

# Iowa EMS Patient Registry

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## Data Dictionary

Prepared by:



## Iowa EMS Patient Registry

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## **Iowa Electronic EMS Reporting**

### **History of IEMSPR:**

An Iowa Department of Public Health, Bureau of EMS (IDPH) data committee consisting of representatives from the IDPH, the trauma registry, and field providers created the IEMSPR dataset in 2003. Originally consisting of 97-elements the IEMSPR dataset provided data collection to the IDPH for 3 years. The IDPH early on was committed to participation in NEMSIS and developed their system during the very early years of NEMSIS conception. There was no way the IDPH could fully anticipate the final NEMSIS process as it matured over the past years. This version 2 of the IEMSPR data dictionary incorporates the NEMSIS national data elements along with some of the original data elements that the IDPH requires to provide adequate monitoring and reporting of Emergency Medical Services (EMS) activity in the State of Iowa.

### **NEMSIS Explanation:**

In 2001 the National Association of EMS Directors in conjunction with the National Highway Traffic Safety Administration (NHTSA) and the Trauma/EMS systems program of Health Resources and Services Administration (HRSA) agreed to develop a national EMS database. From this agreement the NEMSIS project was grown. In 2003 the member states initiated a memorandum of understanding stating that they “recognized the need for EMS data collection at the national level” and agreed to abide by the assignment of “specific definitions to a set of data elements identified as desirable to be collected on a national level”. Between 2003 and 2005 the NEMSIS project developed an EMS and demographic dataset compiling them into a databook with a defined Extended Markup Language (XML) schema to facilitate transport of the data between systems. The databook consists of two datasets; the first is referred to as the demographic dataset. This dataset collects information on the submitting agency, their vehicles, personnel, stations, medical equipment, protocols and medical direction. The second is referred to as the EMS dataset and collects information on the event or patient encounter. The elements can be used to build an extensive patient care report for medical reporting purposes as well as data collection. The current databook includes over 400 data elements that are recommended to be included in an EMS data collection system and are also referred to as the Gold set. Knowing the difficulty in collecting this many elements from end users, NEMSIS has created a subset of the data elements known as “National Data Elements” also referred as the Silver set. The Silver subset consists of a total of 83 elements, 67 elements (13 mandatory) in the EMS dataset and 16 elements (8 mandatory) in the demographic dataset. NEMSIS and NHTSA require that states at minimum must collect the “National Data Elements” for submission to the national EMS database. In April of 2006 the final release of the NEMSIS databook was published and software vendor compliance testing initiated. NEMSIS and NHTSA are now requesting states to submit their data to the national EMS database.

NEMSIS is attempting to remove the difficulty for EMS software vendors in conducting business in multiple regions or states. The movement to an accepted standardized data dictionary and XML with a standardized format removes the complaints of software vendors in modifying their software between customers in different regions or states. NEMSIS offers free compliance tools and certification process for vendors to become NEMSIS compliant. These

benefits assist to eliminate the noncompliance of EMS agencies in submitting data to the IEMSPR system.

### **Data Dictionary Format:**

Each data element is presented using the following template. The Consensus Panel considered it important to provide sufficient detail about each data element to justify its inclusion in the uniform data set, as well as to assist agencies, which seek to implement a data collection system. When a data element requires specific categories, these are listed in the data item specification ("Field Values"). The Panel recognizes that the lists, which are included in this dictionary are imperfect, but definitions of these lists have been debated for many years without resolution.

This data dictionary is not designed to provide all information and explanation of the NHTSA 2 (NEMSIS 2.2.1) datasets, XML and XSD structure. Persons interested in learning more about NEMSIS or development for NEMSIS compliance should contact NEMSIS at [www.nemesis.org](http://www.nemesis.org)

This document is to be used by software developers and EMS agencies to understand the request for a data element, reference acceptable values for data elements, reference the corresponding NEMSIS data dictionary identifier number, identify the business rules associated with an element's submission, denote any variations from the original NEMSIS structure deemed necessary by the IDPH. Submitting agencies are required to be using NEMSIS Gold or Silver compliance certified software with the XSD modifications noted in this document.

Submitted XML record sets will be processed against the IEMSPR XSD for submission compliance. Submitted records with elements that fail the submission screening and are noted as 'record will be rejected' will fail that complete record's entry into the IEMSPR database. Submitted records with elements that fail the submission screening and are noted as 'will be marked as non-compliant' will allow that record's entry into the IEMSPR database. Non-compliance marking is to alert the EMS agency, the software vendor, and the IDPH of a submission that does not conform to the IDPH expected completeness or standard of an EMS record. The label of "non-compliant" is not a negative term in isolated occurrences. It is a concern when this occurs on the same element frequently or an agency has a high number of non-compliance markings. It is really meant to provide a quality assurance means to improve data collection by the end user and vendors. There is no way a system can be built that will be 100% fool proof to ensure the best data and still allow edge cases to be entered. Drawing attention to the occurrence allows all parties to evaluate the cause of the non-compliance. This will allow either the agency or software vendor to correct misconceptions on the collection of the data or the IDPH to identify that the element business rules is not valid. The IDPH will provide an XSD file for testing using the free testing software available from NEMSIS.

Definition of the Priority items:

**Mandatory:** These are elements that are required on all incidents. Failure to provide the mandatory element will flag the record of the incident to NOT be accepted into the IEMSPR database. Correction of the deficiency is required to properly submit the incident.

**Essential:** These are elements that are to be completed on incidents where they pertain as identified in the Business Rules section for the particular element. If they are missing or are

invalid the, the record will NOT be accepted by the IEMSPR database. When they do not pertain the vendor should follow XSD structure rules.

Desirable: These are elements that are strongly requested but may not be possible to collect on all incidents. If the item could have been collected based on the incident then the field would be marked 'Non-Complaint'.

#### #Element Number

<b>Name of Data Element:</b>	Name
<b>Priority:</b>	Mandatory or Essential or Desirable
<b>Definition:</b>	Short definition of data element
<b>National Element:</b>	Identifies if this element is part of the NEMESIS National Element (Silver) list. If noted 'modified' then Iowa has made changes to the element to provide better data collection.
<b>NHTSA 2:</b>	Length of data element
<b>XML:</b>	Specifies the NEMESIS XML format and the XSD definitions.
<b>Field Values:</b>	Defined data elements - alternative descriptions of the data element values or attributes.

**Content:** Detailed discussion of definition and content.

**Discussion and Justification:** Provide further details and justify the data element.

**Business Rules:** Provide information on the requirements for and to a data element to enforce data integrity and submission compliance.

**Technical Comments:** Additional information which may be of use to individuals setting up a data collection system.

**NEMESIS Common Null Values:**

These values are to be used in each of the Demographic and EMS Data Elements described in this document, which have been defined to accept the E00 Null Values. For any collection of data to be of value and reliably represent what was intended, a strong commitment must be made to ensure the correct documentation of incomplete data. The described data integrity method must be followed with the IEMSPR dataset. For data elements being electronically stored in a database or moved from one database to another using XML, the indicated values should be applied when a data element is empty or contains a null value.

**Not Applicable: (Code -25)** = At the time of an EMS patient care report documentation, information requested was “Not Applicable” to the EMS or patient event. This indicates that it is unnecessary to document mechanism or injury related information on a patient who was not traumatized

**Not Available: (Code -5)** = At the time of an EMS patient care report documentation, information was “Not Available” to EMS personnel. This documents that needed information did exist but the EMS personnel was unsuccessful in their attempt to obtain it.

**Not Known: (Code -10)** = At the time of an EMS patient care report documentation, information was “Not Known” to patient, family, and EMS personnel. This documents that there was an attempt to obtain information but it was unknown by all parties involved

**Not Recorded: (Code -20)** = If an EMS documentation or information system has an empty field or nothing is recorded in any data element of the NHTSA dataset, code “-20” should be inserted into the database and/or XML for that data element indicating that the EMS Patient Care Report did not have a value for that specific data element when the EMS event or patient encounter was documented.

**Not Reporting: (Code -15)** = If an EMS documentation or information system is not using any of the "National" data elements of the NHTSA dataset, code “-15” should be inserted into the database and/or XML for that data element.

# **EMS Dataset**

## IEMSPR Element Dictionary

### 1. Lithocode (Patient Care Report Number)

<b>Name of Data Element:</b>	Lithocode (Patient Care Report Number)
<b>Priority:</b>	Mandatory
<b>Definition:</b>	The unique number automatically assigned by the EMS agency for each patient care report (PCR). This is a unique number to the EMS agency for all of time.
<b>National Element:</b>	YES
<b>NHTSA 2:</b>	E01_01
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>PatientCareReportNumber</i> Multiple Entry Configuration: No Accepts Null Values: No <b>Required in XSD: Yes</b> Minimum Constraint: 8 Maximum Constraint: 32

**Content:** Unique 8 digit number from series assigned to a Iowa Department of Public Health, Bureau of EMS (IDPH) approved software product from commercial vendor or in-house from EMS agency. The IDPH may approve the use of a 32 character globally unique identifier (GUID).

**Discussion and Justification:** The unique number automatically assigned by the EMS agency via software for each patient care report (PCR). **This is a unique number to the EMS agency for all of time.** This number must be unique within the state. Provides a specific key to a specific record. This record number will fulfill all the requirements for linkage, which have been described under incident number.

**Business Rules:** All records submitted must have a unique lithocode in the series assigned to the software vendor. Vendors may be granted an exception to submit a GUID in place of a lithocode series. Not Nullable. A unique value must be provided to create a unique record ID within a database. The same unique record ID must be used if the record is amended or updated and resubmitted. Records with duplicate or missing lithocodes will be rejected by the system

**Technical Comments:** This is the central and most important number in the prehospital portion of the EMS information system. Every incident must have a Lithocode number even if there is no patient. An incident will have multiple Lithocodes if there are multiple patients or multiple responders to single patients.

## 2. Incident Number

<b>Name of Data Element:</b>	Incident Number
<b>Priority:</b>	Mandatory
<b>Definition:</b>	The incident number assigned by the 911 Dispatch Center or local EMS agency.
<b>National Element:</b>	No
<b>NHTSA 2:</b>	E02_02
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>IncidentNumber</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b> Minimum Constraint: 7 Maximum Constraint: 15

**Content:** This element consists of a 7-15 position alphanumeric string assigned by a local jurisdiction to each EMS related incident. Zero fill, left justified if number is small (e.g. 0000123). May use the same incident number for different patients involved in the same incident, recommend that the patients be separated by a letter or numeric identifier (i.e. 0000123A, 00001234B).

**Discussion and Justification:** It should be unique within an agency for a particular agency, and then by combining it with a unique agency number, it will be possible to construct another unique identifying number for the incident.

This number is valuable for linking EMS data files with other files related to the incident, such as emergency department and inpatient hospital files, if those medical files also contain this number. Accurate numbering within all available files may be facilitated by technologies such as bar codes.

Probabilistic linkage methodology is of great value when linking files that do not have numeric fields such as incident number in common. However, linkage is greatly facilitated by the presence of such a number in each of the files to be linked.

**Business Rules:** All records submitted must have an agency defined Incident Number for local cross-reference. Records with a missing or an invalid entry will be rejected by the system. Duplicates of this field are ignored.

**Technical Comments:** In some cases incident number, Lithocode number, or PSAP number may be the same.

### 3. EMS Agency Number

<b>Name of Data Element:</b>	EMS Agency Number
<b>Priority:</b>	Mandatory
<b>Definition:</b>	The state-assigned provider number of the responding agency.
<b>National Element:</b>	Yes
<b>NHTSA 2:</b>	E02_01
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>EMSAgencyNumber</i> Multiple Entry Configuration: No Accepts Null Values: No <b>Required in XSD: Yes</b> Minimum Constraint: 7 Maximum Constraint: 7
<b>Field Values:</b>	<a href="#">Refer to Appendix A</a> (EMS Agency List) for Agency Number

**Content:** This element consists of the State assigned agency number or affiliate number of the responding agency.

**Discussion and Justification:** The state-assigned provider number of the responding agency. A component of the EMS Medical Record. May be combined with other elements to build a unique identifier. Allows data to be sorted by the EMS Agency. Important for grouping and comparing EMS Agencies in Benchmarking and Quality Management . When linked to D01\_02 provides the Agency name on the EMS Medical Record: Patient Care Report

**Business Rules:** All records submitted must have an EMS Agency Number entered. The Agency number must be from the approved agency list as published by the Iowa Department of Public Health, Bureau of EMS. Records with a missing or an invalid entry will be rejected by the system.

**Technical Comments:** The first 2 digits are the agency's county of origin's numerical identifier, followed by the 5 digits of the agency's IDPH permit number.

#### 4. EMS Unit Call Sign (EMS Unit Number)

<b>Name of Data Element:</b>	EMS Unit Call Sign
<b>Priority:</b>	Mandatory
<b>Definition:</b>	The EMS unit number used to dispatch and communicate with the unit.
<b>National Element:</b>	Yes
<b>NHTSA 2:</b>	E02_12
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>EMSUnitCallSign</i> Multiple Entry Configuration: No Accepts Null Values: No <b>Required in XSD: Yes</b> Minimum Constraint: 2 Maximum Constraint: 15

**Content:** This element consists of the unique number assigned by a local jurisdiction to each vehicle/unit in their fleet.

**Discussion and Justification:** It should be unique within an agency, and then unique within the State by combining it with the unique EMS Agency Number. Particularly valuable for local reporting, allows the generation of reports for a specific vehicle in a fleet. The unique unit number allows for future software product expansion for vehicle GPS, maintenance and maintenance systems.

Probabilistic linkage methodology is of great value when linking files that do not have numeric fields such as incident number in common. However, linkage is greatly facilitated by the presence of such a number in each of the files to be linked.

**Business Rules:** All records submitted must have a EMS Unit Call Sign entered. Records with missing or an invalid entry will be rejected by the system.

**Technical Comments:** Not Nullable. A unique value must be provided to create a unique record ID within a database.

Submitted data will be verified for accuracy against the Iowa Department of Public Health, EMS Office Registry. The registry is established and maintained by the IDPH. Individual EMS agencies' unit information is regulated by NEMSIS section D04\_02 and is stored in the registry.

EMS agencies will be responsible to revise and update their individual agency's NEMSIS demographic section D within the IDPH Registry.

## 5. Type of Service Requested (Dispatch Type)

<b>Name of Data Element:</b>	Type of Service Requested												
<b>Priority:</b>	Mandatory												
<b>Definition:</b>	The type of service or category of service requested of the EMS service responding for this specific EMS incident.												
<b>National Element:</b>	Yes												
<b>NHTSA 2:</b>	E02_04												
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>TypeOfServiceRequested</i> Multiple Entry Configuration: No Accepts Null Values: No <b>Required in XSD: Yes</b>												
<b>Field Values:</b>													
<table border="1"> <tr> <td>30</td> <td>911 Response (Scene)</td> <td>35</td> <td>Intercept</td> </tr> <tr> <td>40</td> <td>Interfacility Transfer</td> <td>45</td> <td>Medical Transport</td> </tr> <tr> <td>50</td> <td>Mutual Aid</td> <td>55</td> <td>Standby</td> </tr> </table>		30	911 Response (Scene)	35	Intercept	40	Interfacility Transfer	45	Medical Transport	50	Mutual Aid	55	Standby
30	911 Response (Scene)	35	Intercept										
40	Interfacility Transfer	45	Medical Transport										
50	Mutual Aid	55	Standby										

**Content:** This is the type of service or category of service requested of the EMS agency responding for this specific EMS incident.

**Discussion and Justification:** Used to categorize the types of service, which are required, and allows planning of EMS resource allocation. Dispatch type is important for epidemiologists as well as EMS planners deciding where to allocate EMS resources. Provides descriptive data on EMS call volume and service provided.

**Business Rules:** All records submitted must have a Dispatch Type entered. Records with missing or an invalid Dispatch Type will be rejected a by the system.

### Technical Comments:

#### 30 911 Response

The incident request either originated from a Public Safety Answering Point (PSAP) or a “silent alarm” but would be considered a 911 response (public notifies in station crew of MVA in front of station).

#### 35 Intercept / EMS Rendezvous

The incident request at time of dispatch was to provide a support service to another agency and if the patient condition warranted to assist in the transport of the patient. This would be utilized for

911 Responses as well as non-911 request for a similar service. Examples of this would be an ALS chase vehicle that is simultaneously dispatched or requested later to meet up either at the scene or enroute with a BLS unit.

40 *Interfacility Transfer*

The incident request is a transfer of a patient from one facility to another facility. . Examples include; a scheduled transfer of a patient from one hospital to another or emergent transfer of patient from one facility to another. This code should not be used for transports of the patient from their residence or extended care facility, which are coded separately.

45 *Medical Transport*

The incident request is a transfer of a patient from their residence or extended care facility to a physician, clinic, rehabilitation or other medical center.

50 *Mutual Aid*

The incident request is to lend assistance across jurisdictional boundaries when required; either by an emergency that exceeds local resources or a disaster. Awaiting further definition from NEMSIS.

55 *Standby*

The incident request is for a non-emergent response or for a response not covered in other descriptions. The origin of the dispatch does not dictate type, so PSAP dispatch for a non-emergent sporting standby would be a Support Services type. Other examples would be for a standby at a sporting event, community service for disabled individuals, and so on.

## 6. Primary Role of Unit

<b>Name of Data Element:</b>	Primary Role of the Unit			
<b>Priority:</b>	Mandatory			
<b>Definition:</b>	The primary role of the EMS service, which was requested for this specific EMS incident.			
<b>National Element:</b>	Yes			
<b>NHTSA 2:</b>	E02_05			
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>PrimaryRoleOfTheUnit</i> Multiple Entry Configuration: No Accepts Null Values: No <b>Required in XSD: Yes</b>			
<b>Field Values:</b>				
	60	Non-Transport	65	Rescue
	70	Supervisor	75	Transport

**Content:** This is a list of the general categories that should match the primary role of this vehicle during this incident.

**Discussion and Justification:** The primary role of the EMS service, which was requested for this specific EMS incident. Assists in differentiating the roles of several vehicles that respond to the same incident. A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted by the role of the responder. Provides descriptive data on EMS call volume and service provided

**Business Rules:** All records submitted must have a Primary Role entered. Records with Records with missing or an invalid Primary Role of the Unit will be rejected a by the system.

### Technical Comments:

#### *Transport*

Refers to direct response to the scene and the role of the unit was for transporting the patient. Does not matter if the incident disposition or outcome did not involve a transport, just that the unit's role was to transport a patient.

#### *Non-Transport*

Refers to direct response to the scene or rendezvous where primary care is taken over, but transport is by another EMS entity. Does not matter what the incident disposition or outcome

was.

*Supervisor/Assist unit*

Refers to direct response to the scene by the unit as a supervisor or provide other assistance, but did not assume primary care.

*Rescue*

Refers to direct response to the scene by the unit to provide rescue services, but did not assume primary care.

## 7. Incident / Patient Disposition

<b>Name of Data Element:</b>	Incident / Patient Disposition		
<b>Priority:</b>	Mandatory		
<b>Definition:</b>	Type of disposition treatment and/or transport of the patient.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E20_10		
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>IncidentPatientDisposition</i> Multiple Entry Configuration: No Accepts Null Values: No Required in XSD: Yes		
<b>Field Values:</b>			
4815	Cancelled	4820	Dead at Scene
4825	No Patient Found	4830	No Treatment Required
4835	Patient Refused Care	4840	Treated and Released
4845	Treated, Transferred Care	4850	Treated, Transported by EMS
4855	Treated, Transported by Law Enforcement	4860	Treated, Transported by Private Vehicle

**Content:** The final disposition of the EMS responses. Type of disposition of treatment and/or transport of the patient

**Discussion and Justification:** Allows reports to be generated according to the final disposition of EMS responses. This will provide information about the reasons for which EMS is notified, correlated with the ultimate incident disposition. For instance, it will be of value to know that in certain regions, EMS is frequently activated to see patients who require no treatment or transport. Reports generated from this data element may be of use in coordinating the dispatch and responder functions as well.

**Business Rules:** All records submitted must have an Incident/Patient Disposition entered. Records with missing or an invalid entry will be rejected by the system. This field is important in that it dictates further required fields based on the selections.

### Technical Comments:

*Treated and transported by EMS*

This code means that the EMS responder providing the data record treated and transported the

patient. Transport may be to any valid destination, as defined for the destination data element. If the EMS responder transports a patient to a rendezvous point with another EMS responder (for instance, a ground crew rendezvous with a helicopter based agency), this is the correct code for this data element.

*Treated, transferred care*

This code means that the EMS responder provided treatment at the scene but the patient was transferred into the care of another service. The EMS responder did not provide transport in this instance. For example, if a BLS provider is at a scene and treats a patient, but a separate ALS responder arrives and takes over, the BLS record would indicate this code. If an EMS responder treats a patient who is then transported by a separate police or fire vehicle, this is the correct code for the EMS responder record.

*Cancelled*

This code means that the EMS response was cancelled enroute or on scene.

*Patient refused care, Against Medical Advice (AMA)*

Patient was at scene and refused care, whether injured or not. If the EMS responder knows that there is an injury, but the patient refuses care and is transported by friends or acquaintances, this is still the correct code for this data element

*Treated, transported by private vehicle*

This code means that the EMS responder provided treatment, but the patient was transported to his or her destination by a private vehicle. This includes instances in which the patient transports himself via private automobile, if the EMS responder understands that the patient is going to seek further medical care, such as at a private doctor's office or the local emergency department.

*Treated and released*

This code means that the EMS responder provided treatment, and the patient required no further emergency care. This is distinct from the instance in which the patient is known to be in need of further care, but is transported by him self or others to the facility providing further care

*No treatment required*

This code means that the EMS responder evaluated the patient, and no treatment was required. If the patient refused evaluation, or if the EMS responder did not evaluate a specific patient, this is not the correct code for this data element.

*Dead at scene*

This code means that the patient was pronounced dead at the scene, whether or not treatment was undertaken. If a patient is given CPR at the scene and transported to the hospital while undergoing CPR, then this is not the correct code. If a patient is given CPR and is then pronounced dead at the scene, this is the correct code.

*No patient found*

This code is used if a unit arrives on scene, but the responder can find no patient or there is no

patient contact.

*Treated, Transported by Law Enforcement*

This code means that the EMS responder provided treatment, but the patient was transported to his or her destination by a law enforcement vehicle.

**8. Patient's First Name**

<b>Name of Data Element:</b>	Patient's First Name			
<b>Priority:</b>	Desirable			
<b>Definition:</b>	Patient's First (given) Name.			
<b>National Element:</b>	No			
<b>NHTSA 2:</b>	E06_02			
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>FirstName</i> Multiple Entry Configuration: No Accepts Null Values: No <b>Required in XSD: No</b> Minimum Constraint: 1 Maximum Constraint: 20			
<b>Field Values:</b>				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available		Relevant characters

**Content:** If patient contact is established enter the patient's first name if known. Local policy should dictate how Last Name and First Name should be created if unknown.

**Discussion and Justification:** Desirable because of its value in probabilistic linkage, both as a linking variable as well as a confirmatory variable to determine appropriate linkage. Allows a patient's information to be stored and retrieved by first name. Key component of an EMS Medical Record. Provides contact information for multiple purposes including follow-up, billing, bioterrorism syndromic surveillance, etc.

It is recognized that this data element requires careful protection from misuse, but it is more appropriate to regulate appropriate use of this field rather than to prevent its collection.

**Business Rules:** If the patient's first name is unable to be obtained or the call does not involve a patient contact then one of the above field value codes should be entered.

**Technical Comments:** Submission of this data requires HIPAA compliance awareness on part of the agency and the software.

**9. Patient's Last Name**

<b>Name of Data Element:</b>	Patient's Last Name			
<b>Priority:</b>	Desirable			
<b>Definition:</b>	Patient's Last (family) Name.			
<b>National Element:</b>	No			
<b>NHTSA 2:</b>	E06_01			
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>LastName</i> Multiple Entry Configuration: No Accepts Null Values: No <b>Required in XSD: No</b> Minimum Constraint: 2 Maximum Constraint: 20			
<b>Field Values:</b>				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available		Relevant characters

**Content:** If patient contact is established enter the patient's first name if known. Local policy should dictate how Last Name and First Name should be created if unknown.

**Discussion and Justification:** Essential because of its value in probabilistic linkage, both as a linking variable as well as a confirmatory variable to determine appropriate linkage. Allows a patient's information to be stored and retrieved by last name. Key component of an EMS Medical Record. Provides contact information for multiple purposes including follow-up, billing, bioterrorism syndromic surveillance, etc.

It is recognized that this data element requires careful protection from misuse, but it is more appropriate to regulate appropriate use of this field rather than to prevent its collection.

**Business Rules:** If the patient's last name is unable to be obtained or the call does not involve a patient contact then one of the above field value codes should be entered.

**Technical Comments:** Submission of this data requires HIPAA compliance awareness on part of the agency and the software.

**10. Date of Birth**

<b>Name of Data Element:</b>	Date of Birth
<b>Priority:</b>	Essential
<b>Definition:</b>	Patient's date of birth.
<b>National Element:</b>	Yes
<b>NHTSA 2:</b>	E06_16
<b>XML:</b>	XSD Data Type: <i>xs:date</i> XSD Domain (Simple Type): <i>DateOfBirth</i> Multiple Entry Configuration: No Accepts Null Values: Yes, but null value is blank or empty <b>Required in XSD: Yes</b> Minimum Constraint: 1,890 Maximum Constraint: 2,030

**Content:** Format permits sorting across multiple years, and is recommended for data export purposes. Century digits are mandatory.

**Discussion and Justification:** Extremely valuable for probabilistic linkage and calculation of accurate age information. Provides much more discriminatory power in probabilistic linkage than the numeric age. Key component of an EMS Medical Record. Provides important information which will allow EMS data to be sorted, grouped and evaluated by age demographics.

**Business Rules:** Records submitted with an Incident Disposition involving EMS treatment or evaluation must have a Date of Birth value entered. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules.

**Technical Comments:** Submission of this data requires HIPAA compliance awareness on part of the agency and the software.

**11. Age**

<b>Name of Data Element:</b>	Age
<b>Priority:</b>	Essential
<b>Definition:</b>	Patient's age or best approximation
<b>National Element:</b>	Yes
<b>NHTSA 2:</b>	E06_14
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>Age</i> Multiple Entry Configuration: No Accepts Null Values: Yes, but null value is blank or empty <b>Required in XSD: Yes</b> Minimum Constraint: 1 Maximum Constraint: 120

**Content:** Patient's age either calculated from date of birth or best approximation. Requires additional information of Age Units

**Discussion and Justification:** Valuable in the absence of a date of birth. Age information permits linkage to other files, and is useful for epidemiologists interested in patterns of emergency medical problems in different age groups.

**Technical Comments:** Age information permits linkage to other files and is useful for epidemiologists interested in patterns of emergency medical problem in different age groups.

**Business Rules:** Records submitted with an Incident Disposition involving EMS treatment or evaluation must have a Patient's Age submitted. Records with missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules.

**12. Age Units**

<b>Name of Data Element:</b>	Age Units		
<b>Priority:</b>	Essential		
<b>Definition:</b>	The units which the age is documented in as listed below.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E06_15		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>AgeUnits</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	700	Hours
705	Days	710	Months
715	Years		

**Content:** The units which the age is documented in hours, days, months or years. Requires additional information of Age.

**Discussion and Justification:** Valuable in the absence of a date of birth. Age information permits linkage to other files, and is useful for epidemiologists interested in patterns of emergency medical problems in different age groups. Allows data to be sorted based on age. Allows data to describe the age of the EMS patient population.

**Business Rules:** Records submitted with an Incident Disposition involving EMS treatment or evaluation must have an Age Unit submitted.

**Technical Comments:** Days are to be used for 1 to 30 days from birth. Months are to be used for 1 to 12 months from birth. Years are to be used for anyone over 12 months from birth.

**13. Gender**

<b>Name of Data Element:</b>	Gender		
<b>Priority:</b>	Essential		
<b>Definition:</b>	Gender of patient.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E06_11		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>Gender</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	650	Male
655	Female		

**Content:** The gender or sex of the patient.

**Discussion and Justification:** Valuable for linkage to other files, and permits reporting of epidemiological information by gender. Allows data to be sorted based on gender. Allows data to describe the gender of the EMS patient population.

**Business Rules:** Records submitted with an Incident Disposition involving EMS treatment or evaluation must have a Patient's Gender entered. Records with missing or an invalid entry will be rejected by the system.

**Technical Comments:**

-10 *Not Known*

This code should be used only when the sex of the patient cannot be accurately determined after patient contact. If no patient was encountered then the appropriate number of spaces should be submitted.

**14. Patient Street Address**

<b>Name of Data Element:</b>	Patient Street Address			
<b>Priority:</b>	Desirable			
<b>Definition:</b>	Patient's street address.			
<b>National Element:</b>	No			
<b>NHTSA 2:</b>	E06_04			
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>StreetAddress</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: No</b> Minimum Constraint: 2 Maximum Constraint: 30			
<b>Field Values:</b>				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available		Relevant values

**Content:** The patient's legal residence's street address should be entered. Local jurisdiction may allow temporary or billing address to be entered.

**Discussion and Justification:** Essential because of its value in probabilistic linkage, both as a linking variable as well as a confirmatory variable to determine appropriate linkage. It is recognized that this data element requires careful protection from misuse, but it is more appropriate to regulate appropriate use of this field rather than to prevent its collection.

**Business Rules:** If Patient's Street Address is not reported, this field should be submitted with one of the appropriate field values listed.

**Technical Comments:** Submission of this data requires HIPAA compliance awareness on part of the agency and the software.

**15. Patient's City of Residence**

<b>Name of Data Element:</b>	Patient's City of Residence			
<b>Priority:</b>	Desirable			
<b>Definition:</b>	Patient's residence postal city (if applicable)			
<b>National Element:</b>	No			
<b>NHTSA 2:</b>	E06_05			
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>City</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: No</b> Minimum Constraint: 2 Maximum Constraint: 30			
<b>Field Values:</b>				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available		Relevant values

**Content:** The patient's city of legal residence. Local jurisdiction may allow temporary or other billing city to be entered.

**Discussion and Justification:** Essential because of its value in probabilistic linkage, both as a linking variable as well as a confirmatory variable to determine appropriate linkage. It is recognized that this data element requires careful protection from misuse, but it is more appropriate to regulate appropriate use of this field rather than to prevent its collection.

**Business Rules:** If Patient's City of Residence is not reported, this field should be submitted with one of the appropriate field values listed.

**Technical Comments:** Submission of this data requires HIPAA compliance awareness on part of the agency and the software.

**16. Patient's State of Residence**

<b>Name of Data Element:</b>	Patient's State of Residence			
<b>Priority:</b>	Desirable			
<b>Definition:</b>	State of patient's residence (if applicable)			
<b>National Element:</b>	No			
<b>NHTSA 2:</b>	E06_07			
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>State</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: No</b> Minimum Constraint: 2 Maximum Constraint: 3			
<b>Field Values:</b>				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available		Relevant values

**Content:** The patient's state of legal residence. Local jurisdiction may allow temporary or other billing state to be entered.

**Discussion and Justification:** Useful for determining the political entity responsible for potential public health interventions, payment for services, etc.

**Business Rules:** If Patient's State of Residence is not reported, this field should be submitted with one of the appropriate field values listed.

**Technical Comments:** Submission of this data requires HIPAA compliance awareness on part of the agency and the software.

**17. Zip Code of Patient's Residence**

<b>Name of Data Element:</b>	Zip Code of Patient's Residence		
<b>Priority:</b>	Essential		
<b>Definition:</b>	Zip Code of patient's residence		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E06_08		
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>Zip</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b> Minimum Constraint: 2 Maximum Constraint: 10		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		Relevant values

**Content:** The patient's zip code of legal residence. Local jurisdiction may allow temporary or other billing zip code to be entered.

**Discussion and Justification:** Useful for determining the political entity responsible for potential public health interventions, payment for services, etc. From Zip Code, county could be derived in software.

**Business Rules:** If Patient's Zip Code is not reported, this field should be submitted with one of the appropriate field values listed.

**Technical Comments:** Submission of this data requires HIPAA compliance awareness on part of the agency and the software.

-10 *Not Known*

This code should only be used if submitting the complete address elements and the patient's zip code is unknown. Do not send this code if no patient encountered or not submitting above listed data elements. In such cases submit the appropriate number of spaces.

**18. Social Security Number**

<b>Name of Data Element:</b>	Social Security Number		
<b>Priority:</b>	Desirable		
<b>Definition:</b>	Patient Social Security number		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E06_10		
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>SocialSecurityNumber</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: No</b> Minimum Constraint: 2 Maximum Constraint: 9		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		Relevant values

**Content:** The patient's 9-digit social security number

**Discussion and Justification:** Will provide valuable linkage data element. However, this field is very difficult for field responders to obtain.

**Business Rules:** If the Patient's Social Security Number is not reported this field should be submitted with one of the appropriate field values listed.

**Technical Comments:** May be particularly valuable in jurisdictions where driver licenses or other forms of identification have bar coded Social Security numbers. Submission of this data requires HIPAA compliance awareness on part of the agency and the software.

-10 *Not Known*

This code should only be used if submitting patient demographic information and the patient's social security number is unknown. Do not send this code if no patient encountered or not submitting above listed data elements. In such cases submit the appropriate number of spaces.

**19. Race**

<b>Name of Data Element:</b>	Race		
<b>Priority:</b>	Essential		
<b>Definition:</b>	Patient's ethnic origin.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E06_12,		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>Race</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	660	American Indian or Alaska native
665	Asian	670	Black or African American
675	Native Hawaiian or Other Pacific Islander	680	White
685	Other Race		

**Content:** The provider's impression of the patient's ethnic origin.

**Discussion and Justification:** The patient's race as defined by the US Office of Management and Budget. Useful for epidemiological studies, and of importance to data systems in order to access certain types of federal or state funds which are directed to specific ethnic groups.

**Business Rules:** Records submitted with an Incident Disposition involving EMS treatment or evaluation must have a Race submitted. Records with missing or an invalid entry will be rejected by the system. If the data element is not reported this field should be submitted with one of the appropriate field values listed.

**Technical Comments:**

685 *Other*

This code should be used when race can be determined but is not one of the races specified in the

list.

-10 *Not Known*

This code should be used when patient's race cannot be accurately determined due to decomposition, burns, etc. It is not to be used if no patient contact was made.

**20. Ethnicity**

<b>Name of Data Element:</b>	Ethnicity		
<b>Priority:</b>	Essential		
<b>Definition:</b>	The patient's ethnicity.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E06_13		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>Ethnicity</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	690	Hispanic or Latino
695	Not Hispanic or Latino		

**Content:** The provider's impression of the patient's ethnicity.

**Discussion and Justification:** The patient's ethnicity as defined by the US Office of Management and Budget. Useful for epidemiological studies, and of importance to data systems in order to access certain types of Federal or state funds which are directed to specific ethnic groups.

**Business Rules:** Records submitted with an Incident Disposition involving EMS treatment or evaluation must have a Ethnicity submitted. Records with missing or an invalid entry will be rejected by the system. If the data element is not reported this field should be submitted with one of the appropriate field values listed.

**Technical Comments:**

-10 *Not Known*

This code should be used when patient's ethnicity cannot be accurately determined due to

**21. Crewmember Certification Type**

<b>Name of Data Element:</b>	Crewmember Certification Type		
<b>Priority:</b>	Mandatory		
<b>Definition:</b>	Personnel certification / license level of crew member		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E04_03		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>CrewMemberLevel</i> Multiple Entry Configuration: Yes Accepts Null Values: No <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	635	Student
640	Other Healthcare Provider	645	Other Non-Healthcare Professional
6090	EMT-Basic	6100	EMT-Intermediate
6110	EMT-Paramedic	6111	Nurse
6112	Physician	6120	First Responder

**Content:** This crewmember's highest, listed held certification/license level.

**Discussion and Justification:** This data element permits assessing the highest level of care, which was available on the EMS responder team. By combining this information with vehicle type, there is maximum flexibility in describing the type of service, which was provided. For instance, any level of crewmember certification may be present with any type of vehicle. Reports of value may include descriptions of therapies according to level of provider, adherence to protocols which are written differently for various levels of provider, etc.

**Business Rules:** All records submitted must have at least one Crewmember Certification Type *position entered*. Records with missing or an invalid Crewmember Certification Type will be rejected by the system.

**Technical Comments:** If the selected Crewmember Certification Type is not listed as 'Other', then a Iowa Department of Public Health, Bureau of EMS or other Iowa State regulatory agency (RN/Physician) certification number is required for the corresponding Certification Number data

element (refer to that data element's business rule section).

This element captures the highest certification of the responder as recognized by the Iowa Department of Public Health, Bureau of EMS. Certifications held but not listed must be marked as 'Other'.

A corresponding Crewmember Certification Type, Number, and Role should be submitted for each crewmember on the reported incident

**22. Crewmember Certification Number**

<b>Name of Data Element:</b>	Crewmember Certification Number		
<b>Priority:</b>	Essential		
<b>Definition:</b>	Personnel certification / license number for first crewmember.		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E04_01		
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>CrewMemberID</i> Multiple Entry Configuration: Yes Accepts Null Values: No <b>Required in XSD: Yes</b> Minimum Constraint = 2 Maximum Constraint = 15		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		Relevant value

**Content:** A crewmember's certification/license number, corresponding to the entered certification level.

**Discussion and Justification:** Necessary to identify specific crewmembers participating in an EMS response. Useful for constructing experience reports, monitoring care rendered by specific providers, planning educational programs.

**Business Rules:** All records submitted must have at least one Crewmember Certification Number or field value entered. Records with missing or an invalid Crewmember Certification Type will be rejected by the system. This element is the unique, properly formatted certification/license number associated with the corresponding certification level.

**Technical Comments:** Submission of a Iowa Department of Public Health, Bureau of EMS or other Iowa State regulatory agency (RN/Physician) certification number is required for the corresponding Certification Number data element. If the corresponding Crewmember Certification Type is listed as 'Other' then no certification number should be supplied. Failure to supply a certification number when required will flag the record as non-compliant. If the crewmember position and associated crewmember certification type is not entered then the field must be left blank and filled with the appropriate number of spaces. This element is the unique certification number associated with the highest certification of the responder as assigned by the

Iowa Department of Public Health, Bureau of EMS or Iowa State regulatory agency.

Submitted data will be verified for accuracy against the Iowa Department of Public Health, Bureau of EMS Registry. The registry is established and maintained by the IDPH. Individual EMS agencies' personnel information is regulated by NEMSIS section D07 and is stored in the registry. EMS agencies will be responsible to revise and update their individual agency's NEMSIS demographic section D within the IDPH Registry.

A corresponding Crewmember Certification Type, Number, and Role should be submitted for each crewmember on the reported incident

**23. Crewmember Role**

<b>Name of Data Element:</b>	Crewmember Role		
<b>Priority:</b>	Mandatory		
<b>Definition:</b>	Crewmember role		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E04_02		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>CrewMemberRole</i> Multiple Entry Configuration: Yes Accepts Null Values: No <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	580	Driver
585	Primary Patient Caregiver	590	Secondary Patient Caregiver
595	Third Patient Caregiver	600	Other

**Content:** A crewmember's role on the reported incident.

**Discussion and Justification:** Identifies the primary care provider and owner of the PCR in the WebCUR™ system.

**Business Rules:** All records submitted must have at minimum a Crewmember Role of Primary Patient Care Giver value entered. Additional crewmember added should be assigned their respective role for the reported incident. Records with missing or an invalid Crewmember Role will be rejected by the system.

**Technical Comments:** The WebCUR™ and EMStat™ systems use this element to define security and ownership of the PCR entered. The person responsible for completion of the patient care report is the person who should be marked as the Crew Chief.

A corresponding Crewmember Certification Type, Number, and Role should be submitted for each crewmember on the reported incident

**Driver**

Is defined as the driver during the time of patient transport or during the response if there was not

transport required.

**Primary Patient Care Giver**

Is defined as the individual responsible for the patient care during the transport of the patient, or if no transport, the individual responsible for the assessment and treatment of the patient on scene.

**Secondary Patient Care Giver**

Is defined as the individual assisting the Primary Patient Care Giver.

**Third Patient Care Giver**

Is defined as the individual assisting in the Primary and Secondary Patient Care Givers.

**24. PSAP Call Date/Time**

<b>Name of Data Element:</b>	PSAP Call Date/Time (Time Incident Reported)
<b>Priority:</b>	Mandatory
<b>Definition:</b>	The date/time dispatch was notified by the 911 call taker (if a separate entity).
<b>National Element:</b>	Yes
<b>NHTSA 2:</b>	E05_02
<b>XML:</b>	XSD Data Type: <i>xs:datetime</i> XSD Domain (Simple Type): <i>DateTime</i> Multiple Entry Configuration: No Accepts Null Values: Yes, null value is blank or empty <b>Required in XSD: Yes</b>

**Content:** Time and date call is first received by Public Safety Answering Point (PSAP) or other designated entity

**Discussion and Justification:** Provides the start point of the EMS response, and allows managers to assess the adequacy of EMS response, identify delays, and plan resources in a manner to provide expeditious EMS response.

**Business Rules:** All records submitted must have a PSAP Call Date/Time of Call entered. Records with missing or an invalid entry will be rejected by the system. .

**Technical Comments:** If PSAP Call Date/Time is not collected by the EMS agency, this field may be filled with the same time/date as Dispatched. Date and times are to be transmitted using Greenwich Meantime (ref: NHTSA Dataset and XSD change log 2.2.1, March 31, 2006). Format example, 2006-04-04T08:05:00.0Z.

**25. Unit Notified by Dispatch Date/Time**

<b>Name of Data Element:</b>	Unit Notified by Dispatch Date/Time (Dispatched )
<b>Priority:</b>	Mandatory
<b>Definition:</b>	The date the responding unit was notified by dispatch.
<b>National Element:</b>	Yes
<b>NHTSA 2:</b>	E05_04
<b>XML:</b>	XSD Data Type: <i>xs:datetime</i> XSD Domain (Simple Type): <i>DateTime</i> Multiple Entry Configuration: No Accepts Null Values: No <b>Required in XSD: Yes</b>

**Content:** The date and time the unit was notified by dispatch to respond.

**Discussion and Justification:** Permits measurement of the actual responder response or delays. Assists planning of communication resources for individual responders, and allows identification of system delays following the dispatch component of the EMS system.

**Business Rules:** All records submitted must have a Dispatched date/time entered. Records with missing or an invalid entry may be rejected and marked as non-compliant by the system.

**Technical Comments:** Date and times are to be transmitted using Greenwich Meantime (ref: NHTSA Dataset and XSD change log 2.2.1, March 31, 2006). Format example, 2006-04-04T08:05:00.OZ.

**26. Unit Enroute Date/Time**

<b>Name of Data Element:</b>	Unit Enroute Date/Time (Enroute/Responding)
<b>Priority:</b>	Essential
<b>Definition:</b>	The date/time the unit responded; that is, the time the vehicle started moving
<b>National Element:</b>	Yes
<b>NHTSA 2:</b>	E05_05
<b>XML:</b>	XSD Data Type: <i>xs:datetime</i> XSD Domain (Simple Type): <i>DateTime</i> Multiple Entry Configuration: No Accepts Null Values: Yes, null value is blank or empty <b>Required in XSD: Yes</b>

**Content:** The date/time that the response unit begins physical motion.

**Discussion and Justification:** Permits measurement of delay between notification of EMS responder and the actual mobilization of the response unit. This data element refers to physical motion of the responding EMS vehicle, and does not refer to individual EMTs who may respond directly to the scene when notified by individual radio or telephone. For example, if an EMS incident is reported, one EMT may be at home or at work and be responsible to go to the station, which holds the ambulance. Another EMT may be notified and may drive in a private vehicle directly to the scene. The data element entered should be the time that the ambulance actually leaves the station, not the time at which the other EMT drives to the scene in the private vehicle.

**Business Rules:** All records submitted must have a Unit Enroute date/time entered. Records with missing or an invalid entry will be rejected and marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules.

**Technical Comments:** Date and times are to be transmitted using Greenwich Meantime (ref: NHTSA Dataset and XSD change log 2.2.1, March 31, 2006). Format example, 2006-04-04T08:05:00.OZ.

**27. Unit Arrived on Scene Date/Time (Arrive Scene)**

<b>Name of Data Element:</b>	Unit Arrived on Scene Date/Time (Arrive Scene)
<b>Priority:</b>	Essential
<b>Definition:</b>	Time EMS unit stops physical motion at scene.
<b>National Element:</b>	Yes
<b>NHTSA 2:</b>	E05_06
<b>XML:</b>	XSD Data Type: <i>xs:datetime</i> XSD Domain (Simple Type): <i>DateTime</i> Multiple Entry Configuration: No Accepts Null Values: Yes, null value is blank or empty <b>Required in XSD: Yes</b>

**Content:** The time/date the EMS unit stops physical motion at scene, last place that the unit or vehicle stops prior to assessing the patient.

**Discussion and Justification:** Permits measurement of the time required for the response vehicle to go from the station to the scene. This data element refers to the physical motion of the responding EMS vehicle. If an individual EMT arrives at the scene by private vehicle that is NOT the value to be entered in this field. Otherwise, system delays in having an equipped vehicle at the scene will fail to be identified.

**Business Rules:** All records submitted must have a Unit Arrived on Scene date/time entered. Records with missing or an invalid entry may be rejected and marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules.

**Technical Comments:** Date and times are to be transmitted using Greenwich Meantime (ref: NHTSA Dataset and XSD change log 2.2.1, March 31, 2006). Format example, 2006-04-04T08:05:00.0Z.

**28. Arrived at Patient Date/Time (Arrive Patient)**

<b>Name of Data Element:</b>	Arrived at Patient Date/Time (Arrive Patient)
<b>Priority:</b>	Essential
<b>Definition:</b>	The date/time the responding unit arrived at the patient's side
<b>National Element:</b>	Yes
<b>NHTSA 2:</b>	E05_07
<b>XML:</b>	XSD Data Type: <i>xs:datetime</i> XSD Domain (Simple Type): <i>DateTime</i> Multiple Entry Configuration: No Accepts Null Values: Yes, null value is blank or empty <b>Required in XSD: Yes</b>

**Content:** The date/time response personnel establish direct contact with patient.

**Discussion and Justification:** Desirable in certain situations in which there may be a significant delay between the time at which a response unit arrives at the scene and the time at which the personnel can access the patient. For example, if the EMTs are prevented because of fire or adverse conditions from approaching the patient, this time will be useful. Search and rescue operations will also note delays between arrival at the overall scene and the actual patient contact.

**Business Rules:** All records submitted must have a Arrived at Patient date/time entered. Records with missing or an invalid entry may be rejected and marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules.

**Technical Comments:** Date and times are to be transmitted using Greenwich Meantime (ref: NHTSA Dataset and XSD change log 2.2.1, March 31, 2006). Format example, 2006-04-04T08:05:00.0Z.

**29. Unit Left Scene Date/Time (Depart Scene)**

<b>Name of Data Element:</b>	Unit Left Scene Date/Time (Depart Scene)
<b>Priority:</b>	Essential
<b>Definition:</b>	Time when the response unit begins physical motion from scene.
<b>National Element:</b>	Yes
<b>NHTSA 2:</b>	E05_09
<b>XML:</b>	XSD Data Type: <i>xs:datetime</i> XSD Domain (Simple Type): <i>DateTime</i> Multiple Entry Configuration: No Accepts Null Values: Yes, null value is blank or empty <b>Required in XSD: Yes</b>

**Content:** The date/time when the response unit begins physical motion from scene.

**Discussion and Justification:** Permits calculation of scene time by subtracting the time of arrival at scene from the time unit left scene.

**Business Rules:** All records submitted must have a Unit Left Scene date/time entered. Records with missing or an invalid entry may be rejected and marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules.

**Technical Comments:** Date and times are to be transmitted using Greenwich Meantime (ref: NHTSA Dataset and XSD change log 2.2.1, March 31, 2006). Format example, 2006-04-04T08:05:00.0Z.

**30. Time Arrival at Facility/Destination Date/Time (Arrive Destination)**

<b>Name of Data Element:</b>	Time Arrival at Facility/Destination Date/Time ( Arrive Dest.)
<b>Priority:</b>	Essential
<b>Definition:</b>	Time when patient arrives at destination or transfer point.
<b>National Element:</b>	Yes
<b>NHTSA 2:</b>	E05_10
<b>XML:</b>	XSD Data Type: <i>xs:datetime</i> XSD Domain (Simple Type): <i>DateTime</i> Multiple Entry Configuration: No Accepts Null Values: Yes, null value is blank or empty <b>Required in XSD: Yes</b>

**Content:** The date/time when patient arrives at destination or transfer point.

**Discussion and Justification:** Permits calculation of the time required to go from the scene to the destination of the response unit. If the patient is transferred from one EMS responder vehicle to another, then the time of arrival at destination for the first responder is the time of arrival or patient contact (or both) for the second agency.

**Business Rules:** All records submitted must have a Time Arrival at Facility date/time entered. Records with missing or an invalid entry may be rejected and marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules.

**Technical Comments:** Date and times are to be transmitted using Greenwich Meantime (ref: NHTSA Dataset and XSD change log 2.2.1, March 31, 2006). Format example, 2006-04-04T08:05:00.0Z.

**31. Unit Back In Service Date/Time (Available)**

<b>Name of Data Element:</b>	Unit Back In Service Date/Time (Available)
<b>Priority:</b>	Mandatory
<b>Definition:</b>	Time response unit back in service and available for response.
<b>National Element:</b>	Yes
<b>NHTSA 2:</b>	E05_11
<b>XML:</b>	XSD Data Type: <i>xs:datetime</i> XSD Domain (Simple Type): <i>DateTime</i> Multiple Entry Configuration: No Accepts Null Values: No <b>Required in XSD: Yes</b>

**Content:** The date/time the unit back was back in service and available for response, finished with call, but not necessarily back in home location.

**Discussion and Justification:** Allows planning of EMS resources. Permits assessment of the delay between arrival at destination and availability of the response unit.

**Business Rules:** All records submitted must have a Unit Back in Service date/time entered. Records with missing or an invalid entry will be rejected by the system.

**Technical Comments:** Date and times are to be transmitted using Greenwich Meantime (ref: NHTSA Dataset and XSD change log 2.2.1, March 31, 2006). Format example, 2006-04-04T08:05:00.0Z.

**32. Unit Back at Home Location**

<b>Name of Data Element:</b>	Unit Back at Home Location
<b>Priority:</b>	Mandatory
<b>Definition:</b>	The date/time the responding unit was back in their service area. In agencies who utilized Agency Status Management, home location means the service area as assigned through the agency status management protocol.
<b>National Element:</b>	Yes
<b>NHTSA 2:</b>	E05_13
<b>XML:</b>	XSD Data Type: <i>xs:datetime</i> XSD Domain (Simple Type): <i>Date Time</i> Multiple Entry Configuration: No Accepts Null Values: Yes, null value is blank or empty <b>Required in XSD: Yes</b>

**Content:** The date/time the responding unit was back in their service area. In agencies who utilized Agency Status Management, home location means the service area as assigned through the agency status management protocol.

**Discussion and Justification:** Allows planning of EMS resources. Allows data to be sorted based on EMS agency time. Allows data to describe EMS agency time intervals.

**Business Rules:** All records submitted must have a Unit Back at Home Location date/time entered. Records with missing or an invalid entry may be rejected and marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules.

**Technical Comments:** Date and times are to be transmitted using Greenwich Meantime (ref: NHTSA Dataset and XSD change log 2.2.1, March 31, 2006). Format example, 2006-04-04T08:05:00.0Z.

**33. Incident or Onset Date / Time**

<b>Name of Data Element:</b>	Incident or Onset Date /Time
<b>Priority:</b>	Desired
<b>Definition:</b>	Estimated date / time of injury or onset of medical symptoms either by EMS personnel or reported to EMS personnel by patient or bystander.
<b>National Element:</b>	No
<b>NHTSA 2:</b>	E05_01
<b>XML:</b>	XSD Data Type: <i>xs:datetime</i> XSD Domain (Simple Type): <i>DateTime</i> Multiple Entry Configuration: No Accepts Null Values: Yes, null value is blank or empty <b>Required in XSD: No</b>

**Content:** The patient or provider's estimated date/time of injury or symptom onset.

**Discussion and Justification:** Necessary to measure impact of injury time on treatment provided by EMS staff as well as receiving trauma care facility.

**Business Rules:** Records with an invalid entry will be marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules or not submitted.

**Technical Comments:** Date and times are to be transmitted using Greenwich Meantime (ref: NHTSA Dataset and XSD change log 2.2.1, March 31, 2006). Format example, 2006-04-04T08:05:00.0Z.

**34. Type of Dispatch Delay**

<b>Name of Data Element:</b>	Type of Dispatch Delay		
<b>Priority:</b>	Essential		
<b>Definition:</b>	The dispatch delays, if any, associated with the dispatch of the EMS unit to the patient encounter.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E02_06		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>TypeOfDispatchDelay</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	80	Caller (Uncooperative)
85	High Call Volume	90	Language Barrier
95	Location (Inability to obtain)	100	No Units Available
105	None	110	Other
115	Scene Safety (Not Secure for EMS)	120	Technical Failure (Computer, Phone, etc.)

**Content:** The dispatch delays, if any, associated with the dispatch of the EMS unit to the patient encounter.

**Discussion and Justification:** Allows data to describe the status of Dispatch issues.

**Business Rules:** All records submitted must have a Type of Dispatch Delay entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:**

-25 Not Applicable

At the time of the report documentation, information requested was “Not Applicable” to the incident. This indicates that it was unnecessary to document a delay if none occurred.

**35. Type of Response Delay**

<b>Name of Data Element:</b>	Type of Response Delay		
<b>Priority:</b>	Essential		
<b>Definition:</b>	The response delays, if any, of the unit associated with the patient encounter		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E02_07		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>TypeOfResponseDelay</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	125	Crowd
130	Directions	135	Distance
140	Diversions	145	Hazmat
150	None	155	Other
160	Safety	165	Staff Delay
170	Traffic	175	Vehicle Crash
180	Vehicle Failure	185	

**Content:** The response delays, if any, of the unit associated with the patient encounter

**Discussion and Justification:** Allows data describing Vehicle Failures and Vehicle Crashes, Allows data to describe the status of Response issues

**Business Rules:** All records submitted must have a Type of Response Delay entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:**

-25 Not Applicable

At the time of the report documentation, information requested was “Not Applicable” to the incident. This indicates that it was unnecessary to document a delay if none occurred.

**36. Type of Scene Delay**

<b>Name of Data Element:</b>	Type of Scene Delay		
<b>Priority:</b>	Essential		
<b>Definition:</b>	The scene delays, if any, of the unit associated with the patient encounter		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E02_08		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>TypeOfSceneDelay</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	190	Crowd
195	Directions	200	Distance
205	Diversions	210	Extrication > 20 Min.
215	Hazmat	220	Language Barrier
225	None	230	Other
235	Safety	240	Staff Delay
245	Traffic	250	Vehicle Crash
255	Vehicle Failure	260	Weather

**Content:** The scene delays, if any, of the unit associated with the patient encounter

**Discussion and Justification:** Allows data describe Vehicle Failures and Vehicle Crashes. Allows data to describe the status of Scene issues

**Business Rules:** All records submitted must have a Type of Scene Delay entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:**

-25 Not Applicable

At the time of the report documentation, information requested was “Not Applicable” to the incident. This indicates that it was unnecessary to document a delay if none occurred.

**37. Type of Transport Delay**

<b>Name of Data Element:</b>	Type of Transport Delay		
<b>Priority:</b>	Essential		
<b>Definition:</b>	The transport delays, if any, of the unit associated with the patient encounter		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E02_09		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>TypeOfTransportDelay</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	165	Crowd
270	Directions	275	Distance
280	Diversions	285	Hazmat
290	None	295	Other
300	Safety	305	Staff Delay
310	Traffic	315	Vehicle Crash
320	Vehicle Failure	325	Weather

**Content:** The transport delays, if any, of the unit associated with the patient encounter.

**Discussion and Justification:** Allows data describing Vehicle Failures and Vehicle Crashes. Allows data to describe the status of Transport issues.

**Business Rules:** All records submitted must have a Type of Transport Delay entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:**

-25 Not Applicable

At the time of the report documentation, information requested was “Not Applicable” to the incident. This indicates that it was unnecessary to document a delay if none occurred.

**38. Type of Turn-around Delay**

<b>Name of Data Element:</b>	Type of Turn-around Delay		
<b>Priority:</b>	Essential		
<b>Definition:</b>	The turn-around delays, if any, associated with the EMS unit associated with the patient encounter		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E02_10		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>TypeOfTurnAroundDelay</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	165	Crowd
270	Directions	275	Distance
280	Diversions	285	Hazmat
290	None	295	Other
300	Safety	305	Staff Delay
310	Traffic	315	Vehicle Crash
320	Vehicle Failure	325	Weather

**Content:** The turn-around delays, if any, associated with the EMS unit associated with the patient encounter.

**Discussion and Justification:** Allows data describing ED overcrowding and Vehicle Failure. Allows data to describe the status of call time issues.

**Business Rules:** All records submitted must have a Type of Turn-around Delay entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:**

-25 Not Applicable

At the time of the report documentation, information requested was “Not Applicable” to the incident. This indicates that it was unnecessary to document a delay if none occurred

**39. Response Mode to Scene (Lights or Sirens to Scene)**

<b>Name of Data Element:</b>	Response Mode to Scene (Lights or Sirens to Scene)		
<b>Priority:</b>	Essential		
<b>Definition:</b>	The use of lights or sirens enroute to scene.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E02_20		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>ResponseModeToScene</i> Multiple Entry Configuration: No Accepts Null Values: No <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		
380	Initial Lights and Sirens, Downgraded	385	Initial No Lights or Sirens, Upgraded
390	No Lights and Sirens	395	Lights and Sirens

**Content:** Indication whether or not lights and/or sirens were used on the vehicle on the way to the scene.

**Discussion and Justification:** To allow system administrators to know the frequency with which responder vehicles are using lights and sirens. Such usage carries explicit risks and EMS managers are responsible to assure that lights and sirens are used appropriately.

**Business Rules:** All records submitted must have a Response Mode to Scene entered. Records with missing or an invalid entry will be rejected and marked as non-compliant by the system.

**40. Transport Mode From Scene (Lights or sirens used from scene)**

<b>Name of Data Element:</b>	Transport Mode From Scene (Lights or sirens from scene)		
<b>Priority:</b>	Essential		
<b>Definition:</b>	Use of lights and/or sirens from the scene.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E20_14		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>TransportModeFromScene</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		
4955	Initial Lights and Sirens, Downgraded	4960	Initial No Lights or Sirens, Upgraded
4970	No Lights and Sirens	4965	Lights and Sirens

**Content:** Indication whether or not lights and/or sirens were used on the vehicle while leaving scene.

**Discussion and Justification:** Allow system administrators to know the frequency with which responder vehicles are using lights and sirens. Such usage carries explicit risks and EMS managers are responsible to assure that lights and sirens are used appropriately.

**Business Rules:** All records submitted must have a Transport Mode to Scene entered. Records with missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element should be submitted with one of the above listed NEMSIS Section E00 (Common Null) field values.

**Technical Comments:**

-25 Not Applicable

At the time of the report documentation, information requested was “Not Applicable” to the incident. This indicates that it is unnecessary to document transport mode if the incident and the incident disposition demonstrates that the incident did not warrant a transport mode.

**41. Incident Address**

<b>Name of Data Element:</b>	Incident Address			
<b>Priority:</b>	Mandatory			
<b>Definition:</b>	The street address where the unit responded or patient was found.			
<b>National Element:</b>	No			
<b>NHTSA 2:</b>	E08_11			
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>StreetAddress</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: No</b> Minimum Constraint: 2 Maximum Constraint: 50 (30)			
<b>Field Values:</b>				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available		Relevant value

**Content:** The actual or best approximation of the street address where the patient was found, or, if no patient, the address to which the unit responded.

**Discussion and Justification:** Provides street address to better pinpoint incidents and allow mapping. Important for grouping or comparing data by Scene location that also allows data to be sorted by geographic response areas in many agencies. Provides information on overall response patterns and times for agency configuration and evaluation. Field may be used for local city reports, permitting local understanding of the impact of EMS.

**Business Rules:** All records submitted must have an Incident Address entered. The address can be entered or submitted with one of the above listed NEMSIS Section E00 (Common Null) field values. Records with a missing or an invalid entry will be rejected by the system.

**Technical Comment:** This is to be used to allow the IDPH to interface with state geocoding systems to build location based on the street address and zip code. The maximum constraint has been increased from NEMSIS standard to allow more accurate and complete address collection.

**42. Incident City FIPS**

<b>Name of Data Element:</b>	Incident City FIPS			
<b>Priority:</b>	Mandatory			
<b>Definition:</b>	City or township (if applicable) where patient was found or to which unit responded (or best approximation).			
<b>National Element:</b>	No, required for Iowa			
<b>NHTSA 2:</b>	E08_12			
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>City</i> Multiple Entry Configuration: No Accepts Null Values: No <b>Required in XSD: Yes</b> Minimum Constraint: 2 Maximum Constraint: 8			
<b>Field Values:</b>				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available		Relevant value
<a href="#">Refer to Appendix C</a>				
(Iowa City FIPS List)				

**Content:** The civil district's FIPS code that the unit was dispatched to or encountered the incident in.

**Discussion and Justification:** Provides city location of incident, which can be used to determine the appropriate level of EMS resources for specific areas. In addition, this field may facilitate probabilistic linkage to crash reports from the same city, or to hospitals within the same city. Field may be used for local city reports, permitting local understanding of the impact of EMS.

**Business Rules:** All records submitted must have an Incident City FIPS entered. The FIPS number must be from the approved FIPS list as published by the Iowa Department of Public Health, Bureau of EMS or with one of the above listed NEMESIS Section E00 (Common Null) field values. Records with a missing or an invalid entry will be rejected by the system.

**Technical Comment:** Stored as a five (5)-digit field, coded using the FIPS system, wherein each city is encoded as a five (5)-digit number place code. City FIPS codes are only unique within a state. Refer to the approved Iowa City FIPS list in the appendix.

**43. Incident County FIPS**

<b>Name of Data Element:</b>	Incident County FIPS			
<b>Priority:</b>	Mandatory			
<b>Definition:</b>	County or Parish where patient was found or to which unit responded (or best approximation).			
<b>National Element:</b>	Yes,			
<b>NHTSA 2:</b>	E08_13			
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>County</i> Multiple Entry Configuration: No Accepts Null Values: No <b>Required in XSD: Yes</b> Minimum Constraint: 2 Maximum Constraint: 8			
<b>Field Values:</b>				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available		Relevant value
<a href="#">Refer to Appendix E</a>				
(Iowa County FIPS List)				

**Content:** The county or parish's FIPS code that the unit was dispatched to or encountered the incident in.

**Discussion and Justification:** Provides county location of incident, which can be used to determine the appropriate level of EMS resources for specific areas. In addition, this field may facilitate probabilistic linkage to crash reports from the same city, or to hospitals within the same city. Field may be used for local city reports, permitting local understanding of the impact of EMS.

**Business Rules:** All records submitted must have an Incident County FIPS entered. The FIPS number must be from the approved FIPS list as published by the Iowa Department of Public Health, Bureau of EMS or with one of the above listed NEMESIS Section E00 (Common Null) field values. Records with a missing or an invalid entry will be rejected by the system.

**Technical Comment:** Stored as an eight (5)-digit FIPS code (combining the state and county code) to take into account agencies may serve more than one state and counties are often named the same from state to state. Refer to the approved Iowa County FIPS list in the appendix.

**44. Incident Zip Code**

<b>Name of Data Element:</b>	Incident Zip Code		
<b>Priority:</b>	Mandatory		
<b>Definition:</b>	Zip code of incident.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E08_15		
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>Zip</i> Multiple Entry Configuration: No Accepts Null Values: No <b>Required in XSD: Yes</b> Minimum Constraint: 2 Maximum Constraint: 10		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		The appropriate digits for Zip Code

**Content:** The ZIP code of the dispatched or actual incident location.

**Discussion and Justification:** A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted based on the geographic location of the EMS Incident. Allows data to describe geographic location of the EMS Incident. Zip codes cross county and civil districts thereby requiring the City/County FIPS code collection along with Zip Code for billing purposes.

**Business Rules:** All records submitted must have an Incident Zip Code entered. Records with missing or an invalid entry will be rejected by the system

**Technical Comments:** Only the United State Postal Service zip codes are accepted.

**45. Incident GPS Location**

<b>Name of Data Element:</b>	Incident GPS Location
<b>Priority:</b>	Desired
<b>Definition:</b>	The GPS coordinates of the incident
<b>National Element:</b>	No
<b>NHTSA 2:</b>	E08_10
<b>XML:</b>	XSD Data Type: <i>xs:decimal</i> XSD Domain (Simple Type): <i>GPSLocation</i> Multiple Entry Configuration: No Accepts Null Values: No <b>Required in XSD: No</b> XSD Attributes: Latitude and Longitude are each stored as a separate attribute

**Content:** The GPS coordinates associated with the scene.

**Discussion and Justification:** Provides precise coordinates of incidents and improves mapping. Important for grouping or comparing data by Scene location that also allows data to be sorted by geographic response areas in many agencies. Provides information on overall response patterns and times for agency configuration and evaluation. Field may be used for local city reports, permitting local understanding of the impact of EMS.

**Business Rules:** This field is not required for submission and only requested from agencies with the capability to provide GPS information. Records with an invalid entry will be marked as non-compliant by the system. If not reporting this information the entry should not be submitted in the XML file.

**Technical Comment:** This is to be used to allow the IDPH to interface with state geocoding systems to build location based on the GPS coordinates. Must adhere to the NEMSIS GPS submission standards to be considered proper format.

**46. Location Type**

<b>Name of Data Element:</b>	Location Type		
<b>Priority:</b>	Mandatory		
<b>Definition:</b>	Type of location of incident		
<b>National Element:</b>	Yes, modified		
<b>NHTSA 2:</b>	E08_07		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>IncidentLocationType</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	1135	Home/Residence
1140	Farm	1145	Mine or Quarry
1150	Industrial Place and Premise	1155	Place of Recreation or Sport
3	Other Traffic Way	18	School/University
9	Bar/Restaurants	15	Clinic /Dr. Office
16	Extended Care Facility	1185	Lake, River, Ocean
1190	Other Location	2	Traffic Way 55+ mph
14	Acute Care Facility	21	Non Public Road / Off Road.
7	Wilderness	8	Hotel /Motel
12	Office Business	4	Public Place
20	Casino		

**Content:** Location type data items are coded in terms of the (ICD-9) E849 place of occurrence codes. This location refers to the location where the injury occurred, not necessarily the origin of the transport.

**Discussion and Justification:** Location type of the incident is important for epidemiologists as well as EMS planners deciding where to allocate EMS resources. Allows data to be sorted based on the Incident Location and Type. Allows data to describe the Incident Location and the distribution of EMS events.

**Business Rules:** All records submitted must have a Location Type entered. Records with

missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the common null rules (E00).

**Technical Comments:** If responders do not arrive on scene they are to approximate the incident location based on dispatch information

**\*\*Note this list encompasses more than the NEMSIS list of location type. These exceptions allow for more defined coding of established or unique locations inherent to Iowa that are not addressed in NEMSIS but important for state planning.**

**47. Destination Transferred To Code (Receiving Agency)**

<b>Name of Data Element:</b>	Destination Transferred To, Code (Receiving Agency)			
<b>Priority:</b>	Essential			
<b>Definition:</b>	Specific Health Care Facility or Prehospital Agency that received patient from EMS provider providing this record.			
<b>National Element:</b>	Yes			
<b>NHTSA 2:</b>	E20_02			
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>DestinationTransferredToCode</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b> Minimum Constraint: 2 Maximum Constraint: 7 (50)			
<b>Field Values:</b>				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available		The appropriate digits agency
<p><a href="#">Refer to Appendix B</a> {7 digit Health Facility Number}</p> <p><a href="#">Refer to Appendix A</a> {7digit EMS Agency Number}</p>				

**Content:** This element consists of the unique 7-digit number as assigned by the Iowa Department of Public Health, Bureau of EMS for approved health care facilities and EMS agencies.

**Business Rules:** Records submitted with an Incident Disposition involving EMS transport or care transferred must have a Destination Transferred To value entered. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules. Records with missing or an invalid entry will be rejected by the system

**Technical Comments:** None.

-10 *Not Known*

This code should be used when the specific facility number or EMS agency number is not known.

-25 Not Applicable

At the time of the report documentation, information requested was “Not Applicable” to the incident. This indicates that it is unnecessary to document destination transferred to if the incident and the incident disposition demonstrates that the incident did not warrant a transport mode.

**48. Destination Zip Code**

<b>Name of Data Element:</b>	Destination Zip Code		
<b>Priority:</b>	Essential		
<b>Definition:</b>	The destination zip code in which the patient was delivered or transferred to		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E20_07		
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>Zip</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b> Minimum Constraint: 2 Maximum Constraint: 10		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		The appropriate digits for Zip Code

**Content:** The ZIP code of the incident location

**Discussion and Justification:** A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted based on the destination location. Allows data to describe patient's geographic destination. Important for grouping or comparing data by Destination location and type which also allows data to be sorted by geographic areas in many agencies. Provides information on overall service area, patterns and times for agency configuration and evaluation.

**Business Rules:** All records must have a Destination Zip Code value entered. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules. Records with missing or an invalid entry will be rejected by the system.

**Technical Comments:** Only the United State Postal Service zip codes are accepted.

**49. Destination Type**

<b>Name of Data Element:</b>	Destination Type		
<b>Priority:</b>	Essential		
<b>Definition:</b>	The type of destination the patient was delivered or transferred to.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E20_17		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>TypeOfDestination</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	7270	Home
7280	Hospital	7290	Medical Office/Clinic
7300	Morgue	7320	Nursing Home
7330	Other	7340	Other EMS Responder (air)
7350	Other EMS Responder (ground)	7360	Police/Jail

**Content:** The type of the destination the patient was delivered or transferred to.

**Discussion and Justification:** Allows reporting by destination facilities, and allows linking when a patient is transferred between EMS responder agencies. Not applicable would be selected when there is no patient.

It is anticipated that each region or state will codify its list of hospitals in an internally consistent manner, permitting reports by facility. For purposes of the uniform data set, the first 8 categories have been defined above. For purposes of export to a larger data set, such as a national data set, all hospital destinations would be collapsed down into a single code for Hospital.

This data element is very valuable for probabilistic linkage. For instance, when an EMS responder indicates a specific hospital identifier, this can greatly facilitate linkage to outpatient and inpatient facility records.

**Business Rules:** All records must have a Destination Type value entered. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be rejected by the system.

**50. Destination Determination**

<b>Name of Data Element:</b>	Destination Determination		
<b>Priority:</b>	Essential		
<b>Definition:</b>	Reason a transport destination was selected.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E20_16		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>ReasonForChoosingDestination</i> Multiple Entry Configuration: No Accepts Null Values: Yes Required in XSD: Yes		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	4990	Closest Facility
4995	Diversion	5000	Family Choice
5005	Insurance Status	5010	Lawn Enforcement Choice
5015	On-Line Medical Direction	5020	Other
5025	Patient Choice	5030	Patient's Physician Choice
5035	Protocol	5040	Specialty Resource Ctr.

**Content:** The reason used to determine the transfer location.

**Discussion and Justification:** Helps EMS managers to determine whether the choice of destination is appropriate. Items, which are defined as patient, physician, or family choice, are of interest to determine whether a trauma or referral system is functioning well, or is frequently overridden by non-medical issues.

**Business Rules:** All records must have a Destination Determination value entered. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be rejected by the system.

**51. CMS Service Level (Nature of Incident)**

<b>Name of Data Element:</b>	CMS Service Level (Nature of Incident)		
<b>Priority:</b>	Mandatory		
<b>Definition:</b>	Type of care available/rendered by personnel regardless of level		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E07_34		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>CMSServiceLevel</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	990	BLS
995	BLS, Emergency	1000	ALS, Level 1
1005	ALS, Level 1 Emergency	1010	ALS, Level 2
1015	Paramedic Intercept	1020	Specialty Care Transport
1025	Fixed Wing (airplane)	1030	Rotary Wing (helicopter)

**Content:** Identified the highest type of care rendered at the incident.

**Discussion and Justifications:** The CMS service level for this EMS encounter. Allows data to be quantified and described based on the CMS Service Level. Allows data to be sorted based on the CMS Service Level. Important for EMS billing

**Business Rules:** All records must have a CMS Service Level value entered. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be rejected by the system.

**Technical Comments:** None.

**52. Prior Aid**

<b>Name of Data Element:</b>	Prior Aid			
<b>Priority:</b>	Essential			
<b>Definition:</b>	Any care which was provided to the patient prior to the arrival of this unit.			
<b>National Element:</b>	Yes			
<b>NHTSA 2:</b>	E09_01			
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>PriorAid</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes <b>Required in XSD: Yes</b> Minimum Constraint: 2 Maximum Constraint: 30			
<b>Field Values:</b>				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available		Field Values from Procedures & Medications

**Content:** Enter any care provided to patient prior to arrival of this reporting unit.

**Discussion and Justification:** Beneficial to planners and researchers in evaluating the skills and abilities of those first to arrive on the scene or witness emerging situations where medical or injuries are paramount. Allows data to be sorted based on the specific prior aid received or not received by the patient. Allows data to describe aid which was provided prior to EMS arrival. Used as a Quality Management tool to evaluate Bystander and First Responder involvement

**Business Rules:** All records must have a Prior Aid value entered. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be rejected by the system.

**Technical Comments:** Field value list created from Procedures (E19\_03) and Medications (E18\_03).

**53. Prior Aid Performed By**

<b>Name of Data Element:</b>	Prior Aid Performed By		
<b>Priority:</b>	Essential		
<b>Definition:</b>	The type of individual who performed the care prior to the arrival of this unit.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E09_02		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>PriorAidPerformedBy</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	1195	EMS Provider
1200	Law Enforcement	1205	Lay Person
1210	Other Healthcare Provider	1215	Patient

**Content:** Identify the type of the individual who performed the prior aid entered.

**Discussion and Justification:** Beneficial to planners and researchers in evaluating the skills and abilities of those first to arrive on the scene or witness emerging situations where medical or injuries are paramount. Allows data to be sorted based on the specific prior aid received or not received by the patient. A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted based on who provided specific prior aid. Allows data to describe who performed any aid which was provide prior to EMS arrival to the patient. Used as a Quality Management tool to evaluate Bystander and First Responder involvement

**Business Rules:** All records must have a Prior Aid Performed By value entered. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be rejected by the system.

**Technical Comments:** None.

**54. Outcome of Prior Aid**

<b>Name of Data Element:</b>	Outcome of Prior Aid		
<b>Priority:</b>	Essential		
<b>Definition:</b>	What was the outcome or result of the care performed prior to the arrival of the unit?		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E09_03		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>OutcomeOfPriorAid</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	1220	Improved
1225	Unchanged	1230	Worse

**Content:** Identifies the outcome of the aid performed prior to the unit arrival.

**Discussion and Justification:** Beneficial to planners and researchers in evaluating the skills and abilities of those first to arrive on the scene or witness emerging situations where medical or injuries are paramount. Allows data to be sorted based on the perceived outcome which resulted from specific prior aid received by the patient. Allows data to describe aid which was provided prior to EMS arrival . Used as a Quality Management tool to evaluate Bystander and First Responder involvement

**Business Rules:** All records must have an Outcome of Prior Aid value entered. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be rejected by the system.

**Technical Comments:** None.

**55. Vital Signs Date/Time**

<b>Name of Data Element:</b>	Vital Signs Date/Time
<b>Priority:</b>	Essential
<b>Definition:</b>	Date and Time that vital signs were obtained
<b>National Element:</b>	No
<b>NHTSA 2:</b>	E14_01
<b>XML:</b>	XSD Data Type: <i>xs:datetime</i> XSD Domain (Simple Type): <i>DateTime</i> Multiple Entry Configuration: No Accepts Null Values: Yes, null value is blank or empty <b>Required in XSD: Yes</b>

**Content:** Date and time that the vital signs were obtained

**Discussion and Justification:** Desirable in certain situations in which there may be a significant delay between the time at which a response unit arrives at the scene and the time at which the personnel can access the patient. For example, if the EMTs are prevented because of fire or adverse conditions from approaching the patient, this time will be useful. Search and rescue operations will also note delays between arrival at the overall scene and the actual patient contact.

**Business Rules:** Records submitted with an Incident Disposition involving EMS treatment or evaluation must have a Vital Signs Date/Time entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules.

**Technical Comments:** Date and times are to be transmitted using Greenwich Meantime (ref: NHTSA Dataset and XSD change log 2.2.1, March 31, 2006). Format example, 2006-04-04T08:05:00.0Z.

**56. Pulse Rate**

<b>Name of Data Element:</b>	Pulse Rate		
<b>Priority:</b>	Essential		
<b>Definition:</b>	Patient's palpated or auscultated pulse rate expressed in number per minute.		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E14_07		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>PulseRate</i> Multiple Entry Configuration: No Accepts Null Values: Yes, but null value is blank or empty <b>Required in XSD: Yes</b> Minimum Constraint: -25 Maximum Constraint: 500		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		

**Content:** Patient's palpated or auscultated pulse rate expressed in number per minute.

**Discussion and Justification:** The pulse rate is a component of various triage-scoring systems, and permits a rough assessment of the severity of illness of the patient. This data element is based on the physical examination of the patient, and the pulse must be palpated or auscultated. An electrical rhythm is not sufficient, as the patient could have pulse less electrical activity (PEA). In this instance, the correct value of this data element is '000'.

**Business Rules:** Records submitted with an Incident Disposition involving EMS treatment or evaluation must have an Pulse Rate entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:** It is recognized that it may be difficult to obtain an initial pulse rate during a minority of patient encounters. Use the following value to notate that it was decided to not or unable to obtain an initial pulse rate.

-5 Not Available

This is to be coded if a patient was encountered and no pulse was assessed. It is not to be used if

no patient was encountered or the incident does not require a pulse rate

**57. Respiratory Rate**

<b>Name of Data Element:</b>	Respiratory Rate		
<b>Priority:</b>	Essential		
<b>Definition:</b>	Unassisted patient respiratory rate expressed as number per minute.		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E14_11		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>RespiratoryRate</i> Multiple Entry Configuration: No Accepts Null Values: Yes, but null value is blank or empty <b>Required in XSD: Yes</b> Minimum Constraint: -25 Maximum Constraint: 100		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		

**Content:** Unassisted patient respiratory rate expressed as number per minute.

**Discussion and Justification:** Component of several triage scoring systems and provides some assessment of severity of illness or injury. If a patient is not breathing and requires artificial ventilation, this data element should be coded as '000'.

**Business Rules:** Records submitted with an Incident Disposition involving EMS treatment or evaluation must have an Respiratory Rate entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:** It is recognized that patient's encountered may have an initial respiratory rate greater than 100, however, planning and epidemiological studies do not need to differentiate individual numbers greater than the maximum setting. This should limit the submission of, as well as flag erroneous data. Null value should only be used when it is appropriate to not submit the data. Estimated respiratory rates should be collected on all patient encounters.

-5 Not Available

This is to be coded if a patient was encountered and no initial respiratory rate was assessed. It is not to be used if no patient was encountered or the incident does not require a pulse rate.

**58. Systolic Blood Pressure**

<b>Name of Data Element:</b>	Systolic Blood Pressure		
<b>Priority:</b>	Essential		
<b>Definition:</b>	Patient's systolic blood pressure		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E14_04		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>SBP</i> Multiple Entry Configuration: No Accepts Null Values: Yes, but null value is blank or empty <b>Required in XSD: Yes</b> Minimum Constraint: -25 Maximum Constraint: 400		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		

**Content:** Patient's systolic blood pressure

**Discussion and Justification:** Important component of several scoring systems for triage, and permits some assessment of acuity of patient.

**Business Rules:** Records submitted with an Incident Disposition involving EMS treatment or evaluation must have an Systolic Blood Pressure entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:** The coding of '0' should only be used if a blood pressure is attempted but not able to be determined due to poor perfusion. It is recognized that patient's encountered may have an initial systolic blood pressures greater than 400, however, planning and epidemiological studies do not need to differentiate individual number greater than the maximum setting. This should limit the submission of, as well as flag erroneous data. It is recognized that it may be difficult to obtain an initial systolic blood pressure during a minority of patient encounters. Use the following value to notate that it was decided to not or unable to obtain an initial pulse rate.

-5 Not Available

This is to be coded if a patient was encountered and no systolic blood pressure was assessed. It is not to be used if no patient was encountered or the incident does not require a systolic blood pressure.

**59. Diastolic Blood Pressure**

<b>Name of Data Element:</b>	Diastolic Blood Pressure		
<b>Priority:</b>	Essential		
<b>Definition:</b>	Patient's diastolic blood pressure		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E14_05		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>DBP</i> Multiple Entry Configuration: No Accepts Null Values: Yes, but null value is blank or empty <b>Required in XSD: Yes</b> Minimum Constraint: -25 Maximum Constraint: 300		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		

**Content:** Patient's diastolic blood pressure

**Discussion and Justification:** Important component of several scoring systems for triage, and permits some assessment of acuity of patient.

**Business Rules:** Records submitted with an Incident Disposition involving EMS treatment or evaluation must have a Diastolic Blood Pressure entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:** The coding of '0' should only be used if a blood pressure is attempted but not able to be determined due to poor perfusion. It is recognized that patient's encountered may have an initial diastolic blood pressures greater than 300, however, planning and epidemiological studies do not need to differentiate individual number greater than the maximum setting. This should limit the submission of, as well as flag erroneous data. It is recognized that it may be difficult to obtain an initial diastolic blood pressure during a minority of patient encounters. Use the following value to notate that it was decided to not or unable to obtain an initial diastolic blood pressure.

-5 Not Available

This is to be coded if a patient was encountered and no diastolic blood pressure was assessed. It is not to be used if no patient was encountered or the incident does not require a diastolic blood pressure.

**60. Blood Pressure Method**

<b>Name of Data Element:</b>	Blood Pressure Method		
<b>Priority:</b>	Essential		
<b>Definition:</b>	Indication of method of blood pressure procedure.		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E14_06		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>MethodOfBloodPressure</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
3150	Arterial Line	3155	Automated Cuff
3160	Manual Cuff	3165	Palpated Cuff
3170	Venous Line		

**Content:** Indication of method of blood pressure procedure.

**Discussion and Justification:** Important component of several scoring systems for triage, and permits some assessment of acuity of patient.

**Business Rules:** Records submitted with an Incident Disposition involving EMS treatment or evaluation must have an Blood Pressure Method entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules.

**61. Skin Assessment**

<b>Name of Data Element:</b>	Skin Assessment		
<b>Priority:</b>	Essential		
<b>Definition:</b>	The assessment of the patient's skin on examination		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E16_04		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>SkinAssessment</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	3420	Normal
3425	Not Done	3430	Clammy
3435	Cold	3440	Cyanotic
3445	Jaundiced	3450	Lividity
3455	Mottled	3460	Pale
3465	Warm		

**Content:** The assessment of the patient's skin on examination.

**Business Rules:** Records submitted with an Incident Disposition involving EMS treatment or evaluation must have a Skin Assessment entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:**

3425 Not Done

This is to be coded if a patient was encountered and no skin perfusion was assessed. It is not to be used if no patient was encountered or the incident does not require a skin perfusion assessment.

**62. Glasgow Eye Opening Component**

<b>Name of Data Element:</b>	Glasgow Eye Opening Component		
<b>Priority:</b>	Essential		
<b>Definition:</b>	Patient's eye opening component of the Glasgow coma scale.		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E14_15		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>GCSEye</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b> Minimal Constraint = -25 Maximum Constraint = 4		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		
1	Eyes Don't Open	2	Opens Eyes to Painful Stimulation
3	Open Eyes to Verbal Stimulation	4	Open Eyes Spontaneously

**Content:** Initial evaluation of the eye opening of the Glasgow coma scale assessment.

**Discussion and Justification:** One of three components of the Glasgow Coma Scale (GCS), which is widely used to assess neurological status. The score and its components are also parts of a variety of triage scoring systems. The component by itself does not offer a true assessment of neurological status; therefore a complete GCS examination assessing all three components must be submitted for neurological evaluation purposes.

**Business Rules:** Records submitted with an Incident Disposition involving EMS treatment or evaluation must have a Glasgow Eye Opening Component entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:** A judgment that the data element is not applicable should not be made at the responder level. Instead, this can be made by generating data reports for specific conditions in which the data element is considered relevant, and examining the field for valid values.

-5 Not Available

This is to be coded if a patient was encountered and GCS was not assessed. It is not to be used if no patient was encountered or the incident does not require a GCS assessment.

**63. Glasgow Verbal Component**

<b>Name of Data Element:</b>	Glasgow Verbal Component		
<b>Priority:</b>	Essential		
<b>Definition:</b>	Patient's verbal component of the Glasgow coma scale		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E14_16		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>GCSVerbal</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b> Minimal Constraint = -25 Maximum Constraint = 5		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		
	<b>Patients 0 – 23 months</b>	1	None
2	Persistent Cry	3	Inappropriate Cry
4	Cries, inconsolable	5	Smiles, coos, cries appropriately
	<b>Patients 2 – 5 Years</b>	1	None
2	Grunts	3	Cries and/or Screams
4	Inappropriate Words	5	Appropriate Words
	<b>Patients &gt; 5 Years</b>	1	None
2	Non-specific Words	3	Inappropriate Words
4	Confused conversation or speech	5	Oriented and appropriate speech

**Discussion and Justification:** One of three components of the Glasgow Coma Scale, which is widely used to assess neurological status. The score and its components are also parts of a variety of triage scoring systems. The component by itself does not offer a true assessment of neurological status; therefore a complete GCS examination assessing all three components must be submitted for neurological evaluation purposes.

**Business Rules:** Records submitted with an Incident Disposition involving EMS treatment or evaluation must have a Glasgow Verbal Component entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to

not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:** If the patient is intubated and deeply comatose, then this data element is coded as 1 for none, since there was no verbal response at the time of Intubation. However, if the patient is intubated but not deeply comatose, and there is a possibility of verbal response, it is difficult to apply the Glasgow coma scale. The EMS responder can ask questions and if the patient can nod his head or blink eyes, etc. appropriately, then this element is coded as 5. A judgment that the data element is not applicable should not be made at the responder level. Instead, this can be made by generating data reports for specific conditions in which the data element is considered relevant, and examining the field for valid values.

-5 Not Available

This is to be coded if a patient was encountered and GCS was not assessed. It is not to be used if no patient was encountered or the incident does not require a GCS assessment.

**64. Glasgow Motor Component**

<b>Name of Data Element:</b>	Glasgow Motor Component		
<b>Priority:</b>	Essential		
<b>Definition:</b>	Patient's motor component of the Glasgow coma scale.		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E14_18		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>GCSMotor</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b> Minimal Constraint = -25 Maximum Constraint = 6		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		
	<b>Patients &lt; 5 Years</b>	1	None
2	Extensor posturing in response to painful stimulation	3	Flexor posturing in response to painful stimulation
4	General withdrawal in response to painful stimulation	5	Localization of painful stimulation
6	Spontaneous		
	<b>Patients &gt;5 Years</b>	1	None
2	Extensor posturing in response to painful stimulation	3	Flexor posturing in response to painful stimulation
4	General withdrawal in response to painful stimulation	5	Localization of painful stimulation
6	Obeys Commands		

**Discussion and Justification:** One of three components of the Glasgow Coma Scale, which is widely used to assess neurological status. The score and its components are also parts of a

variety of triage scoring systems. The component by itself does not offer a true assessment of neurological status; therefore a complete GCS examination assessing all three components must be submitted for neurological evaluation purposes.

**Business Rules:** Records submitted with an Incident Disposition involving EMS treatment or evaluation must have a Glasgow Motor Component entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:** This component cannot be assessed if the patient has received a muscle relaxant. However, information on patient's response prior to the muscle relaxant may be reported for this initial assessment. A judgment that the data element is not applicable should not be made at the responder level. Instead, this can be made by generating data reports for specific conditions in which the data element is considered relevant, and examining the field for valid values.

-5 Not Available

This is to be coded if a patient was encountered and GCS was not assessed. It is not to be used if no patient was encountered or the incident does not require a GCS assessment.

**65. Initial Cardiac Rhythm**

<b>Name of Data Element:</b>	Initial Cardiac Rhythm		
<b>Priority:</b>	Desirable		
<b>Definition:</b>	Initial monitored cardiac rhythm as interpreted by EMS personnel.		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E14_03		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>CardiacRhythm</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	3005	12 Lead ECG – Anterior Ischemia
3010	12 Lead ECG – Inferior Ischemia	3015	12 Lead ECG – Lateral Ischemia
3020	Agonal / Idioventricular	3025	Artifact
3030	Asystole	3035	Atrial Fibrillation / Flutter
3040	AV Block – 1 <sup>st</sup> Degree	3045	AV Block – 2 <sup>nd</sup> Degree Type 1
3050	AV Block – 2 <sup>nd</sup> Degree Type 2	3055	AV Block – 3 <sup>rd</sup> Degree Type 3
3060	Junctional	3065	Left Bundle Branch
3070	Normal Sinus Rhythm	3075	Other
3080	Paced Rhythm	3085	PEA
3090	Premature Atrial Contractions	3095	Premature Ventricular Contractions
3100	Right Bundle Branch Block	3105	Sinus Arrhythmia
3110	Sinus Bradycardia	3115	Sinus Tachycardia
3120	Supraventricular Tachycardia	3125	Torsades De Points
3130	Unknown AED Non-Shockable Rhythm	3135	Unknown AED Shockable Rhythm
3140	Ventricular Fibrillation	3145	Ventricular Tachycardia

**Discussion and Justification:** Provides the initial monitored rhythm, permitting reports generated according to initial rhythm. Such reports would be of use in assessing the survival rate after certain rhythms.

It is understood that some agencies collect data about cardiac rhythms with more detail than this list. For instance, many agencies expect EMS personnel to distinguish first, second, and third degree heart block. There is no intention to restrict the manner in which any agencies decide to code cardiac rhythms, but there is a necessity to be able to collapse those rhythms to a common definition, which can then be combined. For the examples of heart block mentioned, those would all collapse into AV Block.

**Business Rules:** Records submitted with an Incident Disposition involving EMS treatment or evaluation must have an Initial Cardiac Rhythm entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:**

-5 Not Available

This is to be coded if a patient was encountered and initial cardiac rhythm was not assessed. It is not to be used if no patient was encountered or the incident does not require a cardiac rhythm assessment.

-15 Not Reporting

This is to be coded if the EMS responder is not an appropriate level provider to assess electrical rhythm, or if electrical monitoring is unavailable to the provider.

**66. Final Cardiac Rhythm (at Destination)**

<b>Name of Data Element:</b>	Final Cardiac Rhythm (at Destination)		
<b>Priority:</b>	Desirable		
<b>Definition:</b>	Monitored cardiac rhythm upon arrival at destination.		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E11_11		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>CardiacRhythmAtDestination</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	3005	12 Lead ECG – Anterior Ischemia
3010	12 Lead ECG – Inferior Ischemia	3015	12 Lead ECG – Lateral Ischemia
3020	Agonal / Idioventricular	3025	Artifact
3030	Asystole	3035	Atrial Fibrillation / Flutter
3040	AV Block – 1 <sup>st</sup> Degree	3045	AV Block – 2 <sup>nd</sup> Degree Type 1
3050	AV Block – 2 <sup>nd</sup> Degree Type 2	3055	AV Block – 3 <sup>rd</sup> Degree Type 3
3060	Junctional	3065	Left Bundle Branch
3070	Normal Sinus Rhythm	3075	Other
3080	Paced Rhythm	3085	PEA
3090	Premature Atrial Contractions	3095	Premature Ventricular Contractions
3100	Right Bundle Branch Block	3105	Sinus Arrhythmia
3110	Sinus Bradycardia	3115	Sinus Tachycardia
3120	Supraventricular Tachycardia	3125	Torsades De Points
3130	Unknown AED Non-Shockable Rhythm	3135	Unknown AED Shockable Rhythm
3140	Ventricular Fibrillation	3145	Ventricular Tachycardia

**Discussion and Justification:** Captures the electrical rhythm at the time of arrival at a destination, as previously defined. Reports could examine whether this rhythm differs from the initial rhythm of the patient when encountered in the field, whether there was improvement or deterioration, etc. If an EMS responder is not equipped with electrical monitoring capability or is not of an appropriate level to assess rhythm, this field should be coded as not applicable.

**Business Rules:** Records submitted with an Incident Disposition involving EMS Transport must have a Final Cardiac Rhythm entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**67. Cardiac Arrest**

<b>Name of Data Element:</b>	Cardiac Arrest			
<b>Priority:</b>	Essential			
<b>Definition:</b>	Indication of the presence of a cardiac arrest at any time associated with the EMS event.			
<b>National Element:</b>	Yes			
<b>NHTSA 2:</b>	E11_01			
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>CardiacArrest</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b>			
<b>Field Values:</b>				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available	0	No
	2240	Yes, Prior to EMS Arrival	2245	Yes, After EMS Arrival

**Discussion and Justification:** Indication of the presence of a cardiac arrest at any time associated with the EMS event. A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted based on the occurrence of a cardiac arrest. Allows data to describe the number of cardiac arrests within the EMS patient population.

**Business Rules:** If answered 'Yes,...', all other data points in the Situation/CPR (E11) should be addressed.

**Technical Comments:** None.

**68. Cardiac Arrest Etiology**

<b>Name of Data Element:</b>	Cardiac Arrest Etiology		
<b>Priority:</b>	Essential		
<b>Definition:</b>	Indication of the etiology or cause of the cardiac arrest.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E11_02		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>CardiacArrestEtiology</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	2250	Presumed Cardiac
2255	Trauma	2260	Drowning
2265	Respiratory	2270	Electrocution
2275	Other		

**Content:** Indication of the etiology or cause of the cardiac arrest.

**Discussion and Justification:** A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted based on the occurrence of a cardiac arrest. Allows data to describe the number of cardiac arrests within the EMS patient population.

**Business Rules:** Complete only if Cardiac Arrest (E11\_01) is 'Yes, ....'. Records received with a null will be marked as non-compliant if Cardiac Arrest (E11\_01) is 'Yes, ....'. Null to be accepted when record is not appropriate.

**Technical Comments:** None.

**69. Resuscitation Attempted**

<b>Name of Data Element:</b>	Resuscitation Attempted		
<b>Priority:</b>	Essential		
<b>Definition:</b>	Indication of an attempt to resuscitate the patient who is in cardiac arrest.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E11_03		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>ResuscitationAttempted</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	2280	Attempted Defibrillation
2285	Attempted Ventilation	2290	Initiated Chest Compression
2295	Not Attempted – Considered Futile	2300	Not Attempted – DNR Orders
2305	Not Attempted – Signs of Circulation		

**Content:** Indication of an attempt to resuscitate the patient who is in cardiac arrest.

**Discussion and Justification:** A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted based on the type of resuscitation initiated during a cardiac arrest. Allows data to describe the number of cardiac arrests within the EMS patient population, which resulted in resuscitative efforts.

**Business Rules:** Complete only if Cardiac Arrest (E11\_01) is ‘Yes, ....’. Records received with a null will be marked as non-compliant if Cardiac Arrest (E11\_01) is ‘Yes, ....’. Null to be accepted when record is not appropriate.

**Technical Comments:** None.

**70. Witnessed Cardiac Arrest**

<b>Name of Data Element:</b>	Witnessed Cardiac Arrest			
<b>Priority:</b>	Desirable			
<b>Definition:</b>	Indication of who the cardiac arrest was witnessed by			
<b>National Element:</b>	No			
<b>NHTSA 2:</b>	E11_04			
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>ArrestWitnessedBy</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: No</b>			
<b>Field Values:</b>				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available	2310	Witnessed by Healthcare Provider
	2315	Witnessed by Lay Person	2320	Not Witnessed

**Content:** Documents who the cardiac arrest was witnessed by.

**Discussion and Justification:** A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted based on the Witnessed or Un-Witnessed Arrest, which is a known key element, associated with Cardiac Arrest Outcome. Allows data to describe aid, which was provided prior to EMS arrival. Used as a Quality Management tool to evaluate Bystander and First Responder involvement

**Business Rules:** Complete only if Cardiac Arrest (E11\_01) is 'Yes, ...'. Records received with a null will be marked as non-compliant if Cardiac Arrest (E11\_01) is 'Yes, ...'. Null to be accepted when record is not appropriate.

**Technical Comments:** None.

**71. Estimated Time of Arrest Prior to EMS Arrival**

<b>Name of Data Element:</b>	Estimated Time of Arrest Prior to EMS Arrival		
<b>Priority:</b>	Desirable		
<b>Definition:</b>	The length of time the patient was down (estimated) before the responding unit arrived at the patient		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E11_08		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>ArrestWitnessedBy</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: No</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		
2390	> 20 Minutes	2395	15-20 Minutes
2400	10-15 Minutes	2405	8-10 Minutes
2410	6-8 Minutes	2415	4-6 Minutes
2420	2-4 Minutes	2425	0-2 Minutes

**Content:** Documents the estimated time length from cardiac arrest to arrival of EMS.

**Discussion and Justification:** A component of the EMS Medical Record: Patient Care Report. Allows for evaluation of Cardiac Arrest data for Quality Improvement of patient care and agency response

**Business Rules:** Complete only if Cardiac Arrest (E11\_01) is 'Yes, ...'. Records received with a null will be marked as non-compliant if Cardiac Arrest (E11\_01) is 'Yes, ...'. Null to be accepted when record is not appropriate.

**Technical Comments:** Replaces IEMSPR 1.0 field of Estimated Time of Cardiac Arrest.

**72. Time/Date Resuscitation Discontinued**

<b>Name of Data Element:</b>	Time Resuscitation Discontinued
<b>Priority:</b>	Desirable
<b>Definition:</b>	The date/time the CPR was discontinued (or could be time of death).
<b>National Element:</b>	No
<b>NHTSA 2:</b>	E11_09
<b>XML:</b>	XSD Data Type: <i>xs:datetime</i> XSD Domain (Simple Type): <i>Date Time</i> Multiple Entry Configuration: No Accepts Null Values: Yes, null value is blank or empty <b>Required in XSD: No</b>

**Content:** Time at which medical control or responding EMS unit terminated resuscitation efforts (chest compressions and CPR) in the field

**Discussion and Justification:** Provides information concerning the duration of CPR in the field in cases in which the patient was pronounced dead in the field.

**Business Rules:** Complete only if Cardiac Arrest (E11\_01) is 'Yes, ....'. Null to be accepted when record is not appropriate.

**Technical Comments:** Date and times are to be transmitted using Greenwich Meantime (ref: NHTSA Dataset and XSD change log 2.2.1, March 31, 2006). Format example, 2006-04-04T08:05:00.0Z.

If resuscitation was not discontinued it is appropriate to not collect this data the software vendor may opt to not include the data type in the XML.

**73. Any Return of Spontaneous Circulation**

<b>Name of Data Element:</b>	Any Return of Spontaneous Circulation			
<b>Priority:</b>	Desirable			
<b>Definition:</b>	Indication whether or not there was any return of spontaneous circulation at any time during the EMS events.			
<b>National Element:</b>	No			
<b>NHTSA 2:</b>	E11_06			
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>ReturnOfSpontaneousCirculation</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: No</b>			
<b>Field Values:</b>				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available	0	No
	2370	Yes, Prior to ED Arrival Only	2375	Yes, Prior to ED Arrival and at the ED

**Content:** Documents the return of spontaneous circulation during the EMS events.

**Discussion and Justification:** A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted based on the Return of Spontaneous Circulation associated with a cardiac arrest. Allows for evaluation of Cardiac Arrest data for Quality Improvement of patient care and agency response.

**Business Rules:** Complete only if Cardiac Arrest (E11\_01) is 'Yes, ...'. Records received with a null will be marked as non-compliant if Cardiac Arrest (E11\_01) is 'Yes, ...'. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:** Replaces IEMSPR 1.0 field of Time Spontaneous Circulation

**74. Possible Injury (Injury Present)**

<b>Name of Data Element:</b>	Injury Present			
<b>Priority:</b>	Essential			
<b>Definition:</b>	Indicates that the reason for the EMS encounter was related to an injury or traumatic event.			
<b>National Element:</b>	Yes			
<b>NHTSA 2:</b>	E09_04			
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>YesNoValue</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b>			
<b>Field Values:</b>				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available	0	No
	1	Yes		

**Content:** Indicates that the reason for the EMS encounter was related to an injury or traumatic event. This data element provides documentation to classify the EMS Reason for Encounter as either injury or non-injury related based on mechanism and not on actual injury.

**Discussion and Justification:** Indicates whether or not the patient sustained injury in association with the incident type. The use of this data element will allow injuries to be tracked for non-traumatic incident categories (syncopal episode with injuries from the fall) as well as traditional traumatic incidents (Motor vehicle accident, shootings, etc.). Allows EMS data at the national level to be sorted based on traumatic vs. non-traumatic despite the incident type or primary impression. Allows for the calculation of the "EMS Reason for Encounter" used to further describe the EMS patient population.

**Business Rules:** All records submitted must have an Injury Present entered. Records with missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:** Can be used to determine which records should have Section E10: Situation/ Trauma completed. If Injury Present (E09\_04) is "Yes", Section E10 should be completed.

-25 Not Applicable

This is coded when an incident's disposition did not involve a patient contact.

**75. Cause of Injury**

<b>Name of Data Element:</b>	Cause of Injury		
<b>Priority:</b>	Essential		
<b>Definition:</b>	External cause of injury.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E10_01		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>CauseOfInjury</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	1885	Bites
9500	Aircraft Related Accident	9505	Bicycle Accident
9515	Chemical Poisoning	9520	Child Battering
9525	Drowning	9530	Drug Poisoning
9535	Electrocution (non-lighting)	9540	Excessive Cold
9545	Excessive Heat	9550	Falls
9555	Fire and Flames	9560	Firearm Assault
9565	Firearm Injury	9570	Firearm Self Inflicted
9575	Lightening	9580	Machinery Accident
9585	Mechanical Suffocation	9590	Motor Vehicle Non-traffic Accident
9595	Motor Vehicle Traffic Accident	9600	Motorcycle Accident
9605	Non-Motorized Accident	9610	Pedestrian Traffic Accident
9615	Radiation Exposure	9620	Rape
9625	Smoke Inhalation	9630	Stabbing / Cutting Accident
9635	Stabbing / Cutting Assault	9640	Stuck by Blunt / Thrown Object
9645	Venomous Stings	9650	Water Transport Accident

**Content:** Documents the injury cause.

**Discussion and Justification:** It is necessary to have a broad taxonomy for defining the external

causes of injury, and this data element is coded according to the E codes in ICD-9. However, it is recognized that the entire E code list is too cumbersome for field use, and the element may be collapsed into the categories, which have been listed above.

When possible, the E code should be defined in as much detail as is present in the E code definitions. Such codes will always be collapsible to the categories defined here, but the added detail will provide additional value to injury prevention researchers. It has been traditional to attempt to assign a single E code to individual incidents. Multiple entries, however, aids in gathering better detail about injuries, and to eliminate confusion when the EMS provider must choose between two reasonable E codes.

**Business Rules:** All records with Possible Injury (E09\_04) marked ‘Yes’ must have a Cause of Injury entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system.. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:** Complete only if Possible Injury (E09\_04) is ‘Yes’.

**76. Height of Fall**

<b>Name of Data Element:</b>	Height of Fall
<b>Priority:</b>	Desirable
<b>Definition:</b>	The distance in feet the patient fell, measured from the lowest point of the patient to the ground.
<b>National Element:</b>	No
<b>NHTSA 2:</b>	E15_11
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>HeightOfFall</i> Multiple Entry Configuration: No Accepts Null Values: No <b>Required in XSD: No</b> Minimum Constraint = 1 Maximum Constraint = 50,000

**Content:** Distance in feet that patient is estimated to have fallen.

**Discussion and Justification:** A component of the EMS Medical Record: Patient Care Report. Important component of an EMS Medical Record to identify issues of clinical care and agency performance and delivery. Used to better define injury cause and describe injury patterns within and EMS community.

**Business Rules:** Should be completed if records with Possible Injury (E09\_04) marked ‘Yes’ and a fall (E15\_01, value 9550) was documented. Records with an invalid entry will be marked as non-compliant by the system.

**Technical Comments:** If the incident is appropriate to not collect this data the software vendor may opt to not include the data type in the XML.

**77. Intent of Injury**

<b>Name of Data Element:</b>	Intent of Injury		
<b>Priority:</b>	Desirable		
<b>Definition:</b>	The intent of the individual inflicting the injury		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E10_02		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>IntentOfInjury</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: No</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	2020	Intentional, Other (Assault)
2025	Intentional, Self	2030	Unintentional (Accidental)

**Content:** The intent of the individual inflicting the injury.

**Discussion and Justification:** Identifies the intent of the injury to better determine the cause of the injury.

**Business Rules:** All records with Possible Injury (E09\_04) marked 'Yes' must have an Intent of Injury entered. Records with missing or an invalid entry may be rejected or marked as non-compliant by the system.. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:** Complete only if Possible Injury (E09\_04) is 'Yes'. Records received with a null will be marked as non-compliant if Possible Injury was marked 'Yes'. Null to be accepted when record is not appropriate.

**78. Number of Patient at Scene**

<b>Name of Data Element:</b>	Number of Patients at Scene			
<b>Priority:</b>	Essential			
<b>Definition:</b>	Indicator of how many total patients were at the scene.			
<b>National Element:</b>	Yes			
<b>NHTSA 2:</b>	E08_05			
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>NumberOfPatientsAtScene</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b>			
<b>Field Values:</b>				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available	1120	None
	1125	Single	1130	Multiple

**Content:** Indicator of how many total patients were at the scene.

**Discussion and Justification:** A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted based on the number of patients associated with the event and resources required. Allows data to describe the number of EMS events with multiple patient encounters

**Business Rules:** All records submitted must have a Number of Patients at Scene entered. Records with missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00)

**Technical Comments:** None.

**79. Mass Casualty Incident**

<b>Name of Data Element:</b>	Mass Casualty Incident			
<b>Priority:</b>	Essential			
<b>Definition:</b>	Indicator if this event would be considered a mass casualty incident (overwhelmed existing EMS resources)			
<b>National Element:</b>	Yes			
<b>NHTSA 2:</b>	E08_06			
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>NumberOfPatientsAtScene</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b>			
<b>Field Values:</b>				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available	1120	None
	1125	Single	1130	Multiple

**Content:** Indicator if this event would be considered a mass casualty incident (overwhelmed existing EMS resources).

**Discussion and Justification:** A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted based on a Mass Casualty Event. Allows data to describe the number of EMS events, which were declared a mass casualty event and is connected with disaster and domestic preparedness.

**Business Rules:** All records submitted must have a Mass Causality Incident entered. Records with missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00)

**Technical Comments:** None.

**80. EMD Performed**

<b>Name of Data Element:</b>	EMD Performed		
<b>Priority:</b>	Mandatory		
<b>Definition:</b>	Indication of whether EMD was performed for this EMS event.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E03_02		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>EMDPerformed</i> Multiple Entry Configuration: No Accepts Null Values: No <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	0	No
570	Yes, With Pre-Arrival Instructions	575	Yes, Without Pre-Arrival Instructions

**Content:** Indication of whether EMD was performed for this EMS event.

**Discussion and Justification:** Allows data to be sorted by the Dispatch Complaint. Allows data to describe Patient Complaint as reported by Dispatch.

**Business Rules:** All records submitted must have a EMD Performed entered. Records with missing or an invalid entry will be rejected by the system.

**Technical Comments:**

-25 Not applicable  
This is to be coded if the dispatch center is known to not have an EMD program in use.

-5 Not Available  
This is to be coded if the dispatch center is known to have an EMD program in use, but the provider is unaware if EMD was performed in the incident.

**81. Complaint Reported by Dispatch**

<b>Name of Data Element:</b>	Complaint Reported by Dispatch		
<b>Priority:</b>	Essential		
<b>Definition:</b>	The primary complaint reported to or received at dispatch		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E03_01		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>ComplaintReportedByDispatch</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	400	Abdominal
405	Allergies	410	Animal Bite
415	Assault	420	Back Pain
425	Breathing Problem	430	Burns
435	CO Poisoning/Hazmat	440	Cardiac Arrest
445	Chest Pain	450	Choking
455	Convulsions/Seizures	460	Diabetic Problem
465	Drowning	470	Electrocution
475	Eye Problem	480	Fall Victim
485	Headache	490	Heart Problem
495	Heat/Cold Exposure	500	Hemorrhage/Laceration
505	Industrial Accident/Inaccessible Incident/Other Entrapment (non-vehicle)	510	Ingestion/Poisoning
515	Pregnancy/Childbirth	520	Psychiatric Problem
525	Sick Problem	530	Stab/Gunshot Wound
535	Stroke/CVA	540	Traffic Accident
545	Traumatic Injury	550	Unconscious Fainting
555	Unknown Problem Man Down	560	Transfer/Interfacility/Palliative Care
565	Mass Casualty Incident		

**Content:** The primary complaint received by responding unit at dispatch.

**Discussion and Justification:** This data element is intended to capture the information provided to or obtained by the PSAP or dispatch center and transmitted to the EMS responder.

**Business Rules:** All records submitted must have a Complaint Reported by Dispatch entered. Records with missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:**

-10 *Not Known*

This is to be coded if no complaint was reported at dispatch or if the complaint was for an unknown problem. This is not to be used if self dispatched or alerted by other means and the reporter is aware of the type of problem they are responding to.

**82. Primary Symptom**

<b>Name of Data Element:</b>	Primary Symptom Present		
<b>Priority:</b>	Essential		
<b>Definition:</b>	Signs and symptoms reported to or observed by provider.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E09_13		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>PrimarySymptom</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	1405	Bleeding
1410	Breathing Problem	1415	Change in Responsiveness
1420	Choking	1425	Death
1430	Device/Equipment Failure	1435	Diarrhea
1440	Drainage / Discharge	1445	Fever
1450	Malaise	1455	Mass / Lesion
1460	Mental / Psych	1465	Nausea / Vomiting
1470	None	1475	Pain
1480	Palpitations	1485	Rash /Itching
1490	Swelling	1495	Transport Only
1500	Weakness	1505	Wound

**Content:** The primary sign and symptom present or observed by the provider.

**Discussion and Justification:** This data element is intended to capture the information provided to or obtained by the EMS responder in order to assess the patient. It is intended that these signs and symptoms be correlated with the clinical impression of the responder. This would help EMS managers plan educational programs for the responders.

**Business Rules:** All records submitted must have a Primary Symptom Present entered. Records with missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the common null rules (E00).

**Technical Comments:** None.

**83. Other Associated Symptoms**

<b>Name of Data Element:</b>	Other Associated Symptoms		
<b>Priority:</b>	Essential		
<b>Definition:</b>	Other symptoms reported to or observed by provider.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E09_14		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>OtherAssociatedSymptoms</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	1510	Bleeding
1515	Breathing Problem	1520	Change in Responsiveness
1525	Choking	1530	Death
1535	Device/Equipment Failure	1540	Diarrhea
1545	Drainage / Discharge	1550	Fever
1555	Malaise	1560	Mass / Lesion
1565	Mental / Psych	1570	Nausea / Vomiting
1575	None	1580	Pain
1585	Palpitations	1590	Rash /Itching
1595	Swelling	1600	Transport Only
1605	Weakness	1610	Wound

**Content:** List any other symptom present or observed by the provider

**Discussion and Justification:** This data element is intended to capture the information provided to or obtained by the EMS responder in order to assess the patient. It is intended that these signs and symptoms be correlated with the clinical impression of the responder. This would help EMS managers plan educational programs for the responders.

**Business Rules:** All records submitted must have an Other Associated Symptom entered. Records with missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the common null rules (E00).

**Technical Comments:** None.

**84. Provider Impression**

<b>Name of Data Element:</b>	Provider Primary Impression		
<b>Priority:</b>	Essential		
<b>Definition:</b>	Provider's clinical impression, which led to the management given to the patient (treatments, medications, procedures).		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E09_15		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>ProvidersPrimaryImpression</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	1615	Abdominal pain / problem
1620	Airway Obstruction	1625	Allergic reaction
1630	Altered Level of Consciousness	1635	Behavior / Psychiatric disorder
1640	Cardiac Arrest	1645	Cardiac Rhythm Disturbance
1650	Chest Pain / Discomfort	1655	Diabetic symptoms (hypoglycemia)
1660	Electrocution	1665	Hyperthermia
1670	Hypothermia	1675	Hypovolemia / Shock
1680	Inhalation Injury (Toxic gas)	1685	Obvious Death
1690	Poisoning / drug ingestion	1695	Pregnancy / OB delivery
1700	Respiratory Distress	1705	Respiratory Arrest
1710	Seizure	1715	Sexual Assault / Rape
1720	Smoke Inhalation	1725	Stings / Venomous bites
1730	Stroke / CVA	1735	Syncope / Fainting
1740	Traumatic injury	1745	Vaginal Hemorrhage

**Content:** The provider's impression of the patient's primary problem or most significant condition which led to the EMS management of the patient.

**Discussion and Justification:** This data element contains the single clinical assessment, which primarily drove the actions of the EMS responder. It should be possible to determine whether the treatments or medications provided match protocols, which relate to the clinical impression. When more than one choice is applicable to a patient, the responder should indicate the single most important clinical assessment that drove most of the plan of therapy and management.

It should be noted that this coding system differs from current systems. For instance, many EMS data sets include the entity, Animal Bite. In the uniform data set, such an entry should be coded in this field as a Traumatic Injury. The site of injury should be indicated in the injury field described later in this dictionary, showing the type (laceration or puncture) and site of the bite itself. In addition, the Cause of Injury should be coded as E906.x as discussed under the data element, Cause of Injury. For another example, Sexual Assault is coded in this data element in the same manner as a Traumatic Injury, but the Cause of Injury would be coded as E960.1, and Injury Intent would be coded as intentional. The reason for using this approach is to avoid overlapping, duplicative codes, which are not attached to a general taxonomy such as ICD9. Such codes would become agency specific and would not be flexible enough to permit combining data from different agencies. This list is comprised of the Federal Register Condition Codes.

**Business Rules:** All records submitted must have an Provider Primary Impression entered. Records with missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the common null rules (E00).

**Technical Comments:** None.

**85. Providers Secondary Impression**

<b>Name of Data Element:</b>	Provider's Secondary Impression		
<b>Priority:</b>	Essential		
<b>Definition:</b>	The EMS personnel's impression of the patient's secondary problem or which led to the management given to the patient.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E09_16		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>ProvidersSecondaryImpression</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	1750	Abdominal pain / problem
1755	Airway Obstruction	1760	Allergic reaction
1765	Altered Level of Consciousness	1770	Behavior / Psychiatric disorder
1775	Cardiac Arrest	1780	Cardiac Rhythm Disturbance
1785	Chest Pain / Discomfort	1790	Diabetic symptoms (hypoglycemia)
1795	Electrocution	1800	Hyperthermia
1805	Hypothermia	1810	Hypovolemia / Shock
1815	Inhalation Injury (Toxic gas)	1820	Obvious Death
1825	Poisoning / drug ingestion	1830	Pregnancy / OB delivery
1835	Respiratory Distress	1840	Respiratory Arrest
1845	Seizure	1850	Sexual Assault / Rape
1855	Smoke Inhalation	1860	Stings / Venomous bites
1865	Stroke / CVA	1870	Syncope / Fainting
1875	Traumatic injury	1880	Vaginal Hemorrhage

**Content:** The provider's impression of the patient's secondary problem or condition, which led to the EMS management of the patient.

**Discussion and Justification:** A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted based on the EMS personnel's clinical impression. Allows data to describe the EMS patient population based on EMS personnel impression of the EMS patient's problem.

**Business Rules:** All records submitted must have a Provider's Secondary Impression entered. Records with missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the common null rules (E00).

**Technical Comments:** None.

**86. Chief Complaint Anatomic Location**

<b>Name of Data Element:</b>	Chief Complaint Anatomic Location		
<b>Priority:</b>	Essential		
<b>Definition:</b>	The primary anatomic location of the patient as identified by EMS personnel.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E09_11		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>ComplaintAnatomicLocation</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	1305	Abdomen
1310	Back	1315	Chest
1320	Extremity – Lower	1325	Extremity-Upper
1330	General/Global	1335	Genitalia
1340	Head	1345	Neck

**Content:** The primary anatomic location of the patient as identified by the EMS personnel.

**Discussion and Justification:** A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted based on complaint location. Allows data to describe the patient's complaint location. A component of the EMS Medical Record: Patient Care Report. Allows for the calculation of the "EMS Reason for Encounter" used to further describe the EMS patient population.

**Business Rules:** All records submitted must have a Chief Complaint Anatomic Location entered. Records with missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the common null rules (E00).

**Technical Comments:** This is to be completed by EMS personnel without consideration to their certification level.

**87. Chief Complaint Organ System**

<b>Name of Data Element:</b>	Chief Complaint Organ System		
<b>Priority:</b>	Essential		
<b>Definition:</b>	The primary organ system of the patient injured or medically affected.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E09_12		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>ComplaintOrganSystem</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	1350	Cardiovascular
1355	CNS/Neuro	1360	Endocrine/Metabolic
1365	GI	1370	Global
1375	Musculoskeletal	1380	OB/Gyn
1385	Psych	1390	Pulmonary
1395	Renal	1400	Skin

**Content:** The primary organ system of the patient injured or medically affected.

**Discussion and Justification:** A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted based on the number of patients associated with the event and resources required. Allows data to describe the number of EMS events with multiple patient encounters. A component of the EMS Medical Record: Patient Care Report. Allows for the calculation of the "EMS Reason for Encounter" used to further describe the EMS patient population. Possible Injury (E09\_04), Chief Complaint Anatomic Location (E09\_11), Chief Complaint Organ System (E09\_12), and Primary Symptom (E09\_13) are required to calculate the Reason for Encounter.

**Business Rules:** All records submitted must have a Chief Complaint Organ System entered. Records with missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the common null rules (E00).

**Technical Comments:** This is to be completed by EMS personnel with a minimum of an EMT-Paramedic level of credentialing.

-25 Not Applicable

At the time of the report documentation, information requested was “Not Applicable” to the incident. This indicates that it is unnecessary to document this element if the EMS personnel’s level of credentialing is not an EMT-Paramedic or higher .

**88. Alcohol / Drug Use Indicators**

<b>Name of Data Element:</b>	Alcohol / Drug Use Indicators		
<b>Priority:</b>	Essential		
<b>Definition:</b>	Indicator for the potential use of Alcohol or Drugs by the patient.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E12_19		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>AlcoholDrugUseIndicators</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		
2985	Smell of Alcohol on Breath	2990	Patient Admits to Alcohol Use
2995	Patient Admits to Drug Use	1150	Industrial Place and Premise
1155	Place of Recreation or Sport	3000	Alcohol and/or Drug Paraphernalia at Scene

**Content:** Identifies if any indicators of Alcohol or Drug use was noted with the care of the patient or at the incident.

**Discussion and Justification:** Important data element for injury research, permitting reports of value to public health researchers and policy makers.

**Business Rules:** All records submitted must have a Alcohol/Drug Use Indicators entered. Records with missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the common null rules (E00).

**Technical Comments:** Should be coded as yes whenever the EMS responder suspect's alcohol or drug use by the patient may have contributed to the incident. The uses of drugs or alcohol in isolation have been coded individually for epidemiological purposes and specific use should be coded appropriately when possible.

-10 Not Known

Not known documents that there was an attempt to obtain information but it was unknown by all parties involved.

-25 Not Applicable

Not applicable should be used when there is no patient, such as in a standby response. If alcohol or drugs are totally unrelated to the incident, this field should be coded as no.

**89. Barriers to Patient Care**

<b>Name of Data Element:</b>	Barriers to Patient Care		
<b>Priority:</b>	Essential		
<b>Definition:</b>	Indication of whether or not there were any patient specific barriers to serving the patient at the scene		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E12_01		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>BarriersToPatientCare</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	2600	Developmentally Impaired
2605	Hearing Impaired	2610	Language
2615	None	2620	Physically Impaired
2625	Physically Restrained	2630	Speech Impaired
2635	Unattended or Unsupervised (including minors)	2640	Unconscious

**Content:** Indication of whether or not there were any patient specific barriers to serving the patient at the scene

**Discussion and Justification:** A component of the EMS Medical Record. Allows data to be sorted based on any barriers to patient care. Allows data to describe any barriers to care within the EMS agency, which is important to many federal initiatives

**Business Rules:** All records submitted must have Barriers to Patient Care entered. Records with missing or an invalid entry will be rejected by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the common null rules (E00).

**Technical Comments:** None

**90. Injury Matrix External / Skin**

<b>Name of Data Element:</b>	NTHSA Injury Matrix External /Skin		
<b>Priority:</b>	Desirable		
<b>Definition:</b>	Type of injury identified and associated with the external body/Skin (including burns)		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E15_01		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>NTHSAInjuryMatrix</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes <b>Required in XSD: No</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	3320	Amputation
3325	Bleeding Controlled	3330	Bleeding Uncontrolled
3335	Burn	3340	Crush
3345	Dislocation / Fracture	3350	Gunshot
3355	Laceration	3360	Pain w/o Swelling/Bruising
3365	Puncture / Stab	3370	Soft Tissue with Swelling/Bruising

**Content:** Matrix of injuries noted on the external body or skin.

**Discussion and Justification:** Part of an EMS Medical Record. Provides documentation of Assessment and Care. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

This is a crucial data element, which will enable EMS planners to know what types of injuries are incurred by patients using the EMS system. The data element will also be of value in assessing the correspondence between injury assessment in the field and actual injuries as evaluated in medical facilities. A major reason for using ISS related body sites is the ability to compare the hospital inpatient ISS areas with those indicated by the prehospital provider.

It is understood that various levels of providers will be permitted to make injury assessments at different levels of sophistication. For example, the diagnosis of fracture is considered out of

scope for many prehospital responders. In this case, a term might be added for swelling, or some other marker by which an EMS responder is supposed to suspect a fracture or dislocation. It is stressed that this data element is supposed to reflect the clinical impression of injury by the EMS responder, not necessarily the final, correct medical diagnosis.

**Business Rules:** Records with an invalid entry will be marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:** If the incident is appropriate to not collect this data the software vendor may opt to not include the data type in the XML, or submit Null values, or submit the common null values (E00).

**91. Injury Matrix Head**

<b>Name of Data Element:</b>	NTHSA Injury Matrix Head		
<b>Priority:</b>	Desirable		
<b>Definition:</b>	Type of injury identified and associated with the Head (excluding face, neck, cervical spine, and ear)		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E15_02		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>NTHSAInjuryMatrix</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes <b>Required in XSD: No</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	3320	Amputation
3325	Bleeding Controlled	3330	Bleeding Uncontrolled
3335	Burn	3340	Crush
3345	Dislocation / Fracture	3350	Gunshot
3355	Laceration	3360	Pain w/o Swelling/Bruising
3365	Puncture / Stab	3370	Soft Tissue with Swelling/Bruising

**Content:** Matrix of injuries noted on the head.

**Discussion and Justification:** Part of an EMS Medical Record. Provides documentation of Assessment and Care. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

**Business Rules:** Records with an invalid entry will be marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:** If the incident is appropriate to not collect this data the software vendor may opt to not include the data type in the XML, or submit Null values, or submit the common null values (E00).

**92. Injury Matrix Face**

<b>Name of Data Element:</b>	NTHSA Injury Matrix Face		
<b>Priority:</b>	Desirable		
<b>Definition:</b>	Type of injury identified and associated with the Face (including ear).		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E15_03		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>NTHSAInjuryMatrix</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes <b>Required in XSD: No</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	3320	Amputation
3325	Bleeding Controlled	3330	Bleeding Uncontrolled
3335	Burn	3340	Crush
3345	Dislocation / Fracture	3350	Gunshot
3355	Laceration	3360	Pain w/o Swelling/Bruising
3365	Puncture / Stab	3370	Soft Tissue with Swelling/Bruising

**Content:** Matrix of injuries noted on the face.

**Discussion and Justification:** Part of an EMS Medical Record. Provides documentation of Assessment and Care. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

**Business Rules:** Records with an invalid entry will be marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:** If the incident is appropriate to not collect this data the software vendor may opt to not include the data type in the XML, or submit Null values, or submit the common null values (E00).

**93. Injury Matrix Neck**

<b>Name of Data Element:</b>	NTHSA Injury Matrix Neck		
<b>Priority:</b>	Desirable		
<b>Definition:</b>	Type of injury identified and associated with the Neck		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E15_04		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>NTHSAInjuryMatrix</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes <b>Required in XSD: No</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	3320	Amputation
3325	Bleeding Controlled	3330	Bleeding Uncontrolled
3335	Burn	3340	Crush
3345	Dislocation / Fracture	3350	Gunshot
3355	Laceration	3360	Pain w/o Swelling/Bruising
3365	Puncture / Stab	3370	Soft Tissue with Swelling/Bruising

**Content:** Matrix of injuries noted on the neck.

**Discussion and Justification:** Part of an EMS Medical Record. Provides documentation of Assessment and Care. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

**Business Rules:** Records with an invalid entry will be marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:** If the incident is appropriate to not collect this data the software vendor may opt to not include the data type in the XML, or submit Null values, or submit the common null values (E00).

**94. Injury Matrix Thorax**

<b>Name of Data Element:</b>	NTHSA Injury Matrix Thorax		
<b>Priority:</b>	Desirable		
<b>Definition:</b>	Type of injury identified and associated with the Thorax (excluding the thoracic spine)		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E15_05		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>NTHSAInjuryMatrix</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes <b>Required in XSD: No</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	3320	Amputation
3325	Bleeding Controlled	3330	Bleeding Uncontrolled
3335	Burn	3340	Crush
3345	Dislocation / Fracture	3350	Gunshot
3355	Laceration	3360	Pain w/o Swelling/Bruising
3365	Puncture / Stab	3370	Soft Tissue with Swelling/Bruising

**Content:** Matrix of injuries noted on the thorax.

**Discussion and Justification:** Part of an EMS Medical Record. Provides documentation of Assessment and Care. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

**Business Rules:** Records with an invalid entry will be marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:** If the incident is appropriate to not collect this data the software vendor may opt to not include the data type in the XML, or submit Null values, or submit the common null values (E00).

**95. Injury Matrix Abdomen**

<b>Name of Data Element:</b>	NTHSA Injury Matrix Abdomen		
<b>Priority:</b>	Desirable		
<b>Definition:</b>	Type of injury identified and associated with the Abdomen (excluding the lumbar spine)		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E15_06		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>NTHSAInjuryMatrix</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes <b>Required in XSD: No</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	3320	Amputation
3325	Bleeding Controlled	3330	Bleeding Uncontrolled
3335	Burn	3340	Crush
3345	Dislocation / Fracture	3350	Gunshot
3355	Laceration	3360	Pain w/o Swelling/Bruising
3365	Puncture / Stab	3370	Soft Tissue with Swelling/Bruising

**Content:** Matrix of injuries noted on the abdomen.

**Discussion and Justification:** Part of an EMS Medical Record. Provides documentation of Assessment and Care. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

**Business Rules:** Records with an invalid entry will be marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:** If the incident is appropriate to not collect this data the software vendor may opt to not include the data type in the XML, or submit Null values, or submit the common null values (E00).

**96. Injury Matrix Spine**

<b>Name of Data Element:</b>	NTHSA Injury Matrix Spine		
<b>Priority:</b>	Desirable		
<b>Definition:</b>	Type of injury identified and associated with the Spine		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E15_07		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>NTHSAInjuryMatrix</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes <b>Required in XSD: No</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	3320	Amputation
3325	Bleeding Controlled	3330	Bleeding Uncontrolled
3335	Burn	3340	Crush
3345	Dislocation / Fracture	3350	Gunshot
3355	Laceration	3360	Pain w/o Swelling/Bruising
3365	Puncture / Stab	3370	Soft Tissue with Swelling/Bruising

**Content:** Matrix of injuries noted on the spine.

**Discussion and Justification:** Part of an EMS Medical Record. Provides documentation of Assessment and Care. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

**Business Rules:** Records with an invalid entry will be marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:** If the incident is appropriate to not collect this data the software vendor may opt to not include the data type in the XML, or submit Null values, or submit the common null values (E00).

**97. Injury Matrix Upper Extremities**

<b>Name of Data Element:</b>	NTHSA Injury Matrix Upper Extremities		
<b>Priority:</b>	Desirable		
<b>Definition:</b>	Type of injury identified and associated with the Upper Extremities		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E15_08		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>NTHSAInjuryMatrix</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes <b>Required in XSD: No</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	3320	Amputation
3325	Bleeding Controlled	3330	Bleeding Uncontrolled
3335	Burn	3340	Crush
3345	Dislocation / Fracture	3350	Gunshot
3355	Laceration	3360	Pain w/o Swelling/Bruising
3365	Puncture / Stab	3370	Soft Tissue with Swelling/Bruising

**Content:** Matrix of injuries noted on the upper extremities.

**Discussion and Justification:** Part of an EMS Medical Record. Provides documentation of Assessment and Care. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

**Business Rules:** Records with an invalid entry will be marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:** If the incident is appropriate to not collect this data the software vendor may opt to not include the data type in the XML, or submit Null values, or submit the common null values (E00).

**98. Injury Matrix Pelvis**

<b>Name of Data Element:</b>	NTHSA Injury Matrix Pelvis		
<b>Priority:</b>	Desirable		
<b>Definition:</b>	Type of injury identified and associated with the Pelvis		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E15_09		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>NTHSAInjuryMatrix</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes <b>Required in XSD: No</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	3320	Amputation
3325	Bleeding Controlled	3330	Bleeding Uncontrolled
3335	Burn	3340	Crush
3345	Dislocation / Fracture	3350	Gunshot
3355	Laceration	3360	Pain w/o Swelling/Bruising
3365	Puncture / Stab	3370	Soft Tissue with Swelling/Bruising

**Content:** Matrix of injuries noted on the pelvis.

**Discussion and Justification:** Part of an EMS Medical Record. Provides documentation of Assessment and Care. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

**Business Rules:** Records with an invalid entry will be marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:** If the incident is appropriate to not collect this data the software vendor may opt to not include the data type in the XML, or submit Null values, or submit the common null values (E00).

**99. Injury Matrix Lower Extremities**

<b>Name of Data Element:</b>	NTHSA Injury Matrix Lower Extremities		
<b>Priority:</b>	Desirable		
<b>Definition:</b>	Type of injury identified and associated with the Lower Extremities		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E15_10		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>NTHSAInjuryMatrix</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes <b>Required in XSD: No</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	3320	Amputation
3325	Bleeding Controlled	3330	Bleeding Uncontrolled
3335	Burn	3340	Crush
3345	Dislocation / Fracture	3350	Gunshot
3355	Laceration	3360	Pain w/o Swelling/Bruising
3365	Puncture / Stab	3370	Soft Tissue with Swelling/Bruising

**Content:** Matrix of injuries noted on the lower extremities.

**Discussion and Justification:** Part of an EMS Medical Record. Provides documentation of Assessment and Care. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

**Business Rules:** Records with an invalid entry will be marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:** If the incident is appropriate to not collect this data the software vendor may opt to not include the data type in the XML, or submit Null values, or submit the common null values (E00).

**100. Injury Matrix Unspecified**

<b>Name of Data Element:</b>	NTHSA Injury Matrix Unspecified		
<b>Priority:</b>	Desirable		
<b>Definition:</b>	Type of injury identified and associated with Unspecified		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E15_11		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>NTHSAInjuryMatrix</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes <b>Required in XSD: No</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	3320	Amputation
3325	Bleeding Controlled	3330	Bleeding Uncontrolled
3335	Burn	3340	Crush
3345	Dislocation / Fracture	3350	Gunshot
3355	Laceration	3360	Pain w/o Swelling/Bruising
3365	Puncture / Stab	3370	Soft Tissue with Swelling/Bruising

**Content:** Matrix of injuries noted on a previously unspecified area.

**Discussion and Justification:** Part of an EMS Medical Record. Provides documentation of Assessment and Care. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

**Business Rules:** Records with an invalid entry will be marked as non-compliant by the system. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00).

**Technical Comments:** If the incident is appropriate to not collect this data the software vendor may opt to not include the data type in the XML, or submit Null values, or submit the common null values (E00).

**101. Safety Devices**

<b>Name of Data Element:</b>	Safety Devices (Use of Occupant Safety Equipment)		
<b>Priority:</b>	Essential		
<b>Definition:</b>	Safety equipment in use by patient at time of injury.		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E10_08		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>UseOfOccupantSafetyEquipment</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes Required in XSD: No		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		
2170	Child Restraint	2175	Eye Protection
2180	Helmet Worn	2185	Lap Belt
2187	None	2190	Other
2195	Personal Flotation Device	2200	Protective Clothing
2205	Protective Non-Clothing Gear	2210	Shoulder Belt

**Content:** List the safety equipment used by the patient at time of injury.

**Discussion and Justification:** Provides important information about safety device use in motor vehicle accidents, boating accidents, and industrial accidents with eye injuries. Data will be of use for corroboration of police reports concerning crashes.

**Business Rules:** Complete only if Possible Injury (E09\_04) is 'Yes'. Records received with a null will be marked as non-compliant if Possible Injury was marked 'Yes'. Null to be accepted when record is not appropriate.

**Technical Comments:** If the EMS responder knows that no safety device was employed, then the data element should be coded as none. If none of the indicated devices was used, the element

should also be coded as none.

-25 *Not Applicable*

This is to be coded when no safety devices were indicated based on the nature of the call. This is not to be used if no patient contact was made.

**102. Airbag Deployment**

<b>Name of Data Element:</b>	Airbag Deployment		
<b>Priority:</b>	Essential		
<b>Definition:</b>	Indication of airbag deployment during the motor vehicle crash.		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E10_09		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>AirBagDeployment</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes <b>Required in XSD: No</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	2215	No Airbag Present
2220	No Airbag Deployed	2225	Airbag Deployed Front
2230	Airbag Deployed Side	2235	Airbag Deployed Other

**Content:** Documents the deployment of airbags in the patient vehicle during a motor vehicle crash.

**Discussion and Justification:** Provides important information about airbag use and deployment in motor vehicle accidents. Data will be of use for corroboration of police reports concerning crashes.

**Business Rules:** Complete only if Possible Injury (E09\_04) is 'Yes'. Records received with a null will be marked as non-compliant if Possible Injury was marked 'Yes'. Null to be accepted when record is not appropriate.

**Technical Comments:** If the EMS responder knows that no airbag device was present, then the data element should be coded as No Airbag Present. If the airbag was present but not deployed then the element should be coded as No Airbag Deployed.

-25 Not Applicable

This is to be coded when Possible Injury is 'Yes' and no airbag deployment were indicated based on the nature of the call. This is not to be used if Possible Injury is 'No'.

**103. Motor Vehicle Impact**

<b>Name of Data Element:</b>	Motor Vehicle Impact (Area of Vehicle Impacted by Collision)		
<b>Priority:</b>	Essential		
<b>Definition:</b>	Motor Vehicle Impact site during collision.		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E10_05		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>AreaOfVehicleImpact</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes <b>Required in XSD: No</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	2100	Center Front
2105	Center Rear	2110	Left Front
2115	Left Rear	2120	Left Side
2125	Right Front	2130	Right Rear
2135	Right Side	2140	Roll Over

**Content:** Documents the site of impact during a motor vehicle collision.

**Discussion and Justification:** This data element provides information about the site of collision during a Motor Vehicle Impact, which can be used to predict injury patterns and define injury cause. Data will be used for corroboration of police reports concerning crashes.

**Business Rules:** Complete only if Possible Injury (E09\_04) is 'Yes'. Records received with a null will be marked as non-compliant if Possible Injury was marked 'Yes'. Null to be accepted when record is not appropriate.

**Technical Comments:**

-25 Not Applicable

This is to be coded when Possible Injury is 'Yes' and no Motor Vehicle Impact were indicated based on the nature of the call. This is not to be used if Possible Injury is 'No'.

**104. Injury Indicators**

<b>Name of Data Element:</b>	Injury Indicators		
<b>Priority:</b>	Essential		
<b>Definition:</b>	The kind of risk factor predictors associated with the vehicle involved in the incident.		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E10_04		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>VehicularInjuryIndicators</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes <b>Required in XSD: No</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	2055	Dash Deformity
2060	DOA Same Vehicle	2065	Ejection
2070	Fire	2075	Rollover / Roof Deformity
2080	Side Post Deformity	2085	Space Intrusion >1 foot
2090	Steering Wheel Deformity	2095	Windshield Spider/Star

**Content:** This data element is coded as a 2-position field that provides risk factor predictors present at the incident. Up to 3 Injury Indicators can be selected.

**Discussion and Justification:** This data element provides information about the Injury Indicators during a motor vehicle collision, which can be used to predict injury patterns and define injury cause. Data will be used for corroboration of police reports concerning crashes.

**Business Rules:** Complete only if Possible Injury (E09\_04) is 'Yes'. Records received with a null will be marked as non-compliant if Possible Injury was marked 'Yes'. Null to be accepted when record is not appropriate.

**Technical Comments:**

-25 *Not Applicable*

This is to be coded when Possible Injury is 'Yes' and no Injury Indicators applied. This is not to be used if the field is not appropriate for the incident.

**105. Seat Row Location of Patient in Vehicle**

<b>Name of Data Element:</b>	Seat Row Location of Patient in Vehicle
<b>Priority:</b>	Desirable
<b>Definition:</b>	The seat row location of the patient in vehicle at the time of the crash with the front seat numbered as 1.
<b>National Element:</b>	No
<b>NHTSA 2:</b>	E10_07
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>SeatRowLocation</i> Multiple Entry Configuration: No Accepts Null Values: no <b>Required in XSD: No</b> Minimum Constraint: 1 Maximum Constraint: 50  If a value of 50 is passed, the location is designated "Cargo Area".

**Content:** The seat row location of the patient in vehicle at the time of the crash with the front seat numbered as 1.

**Discussion and Justification:** This data element provides information about the location of a patient during a motor vehicle collision, which can be used to predict injury patterns and define injury cause. Data will be used for corroboration of police reports concerning crashes.

**Business Rules:** Complete only if Possible Injury (E09\_04) is 'Yes'. Records received with a null will be marked as non-compliant if Possible Injury was marked 'Yes'. Null to be accepted when record is not appropriate.

**Technical Comments:** Complete only if Possible Injury (E09\_04) is "Yes". Numbered to take into account large vehicles such as buses or vans (1 = Front) or (Cargo Area = 50).

-25 *Not Applicable*

This is to be coded when Possible Injury is 'Yes' and no Seat Row Location applied. This is not to be used if the field is not appropriate for the incident.

**106. Position of Patient in the Seat of the Vehicle**

<b>Name of Data Element:</b>	Position of Patient in the Seat of the Vehicle		
<b>Priority:</b>	Desirable		
<b>Definition:</b>	The position of the patient in seat of the vehicle at the time of the crash.		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E10_07		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>PositionOfPatientInSeat</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: No</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	2145	Driver
2150	Left (non-driver)	2155	Middle
2160	Other	2165	Right

**Content:** Documents the seat position a patient was in during a collision.

**Discussion and Justification:** This data element provides information about the seat location of a patient during a motor vehicle collision, which can be used to predict injury patterns and define injury cause. Data will be used for corroboration of police reports concerning crashes.

**Business Rules:** Complete only if Possible Injury (E09\_04) is 'Yes'. Records received with a null will be marked as non-compliant if Possible Injury was marked 'Yes'. Null to be accepted when record is not appropriate.

**Technical Comments:**

-25 *Not Applicable*

This is to be coded when Possible Injury is 'Yes' and no Seat Position applied. This is not to be used if the field is not appropriate for the incident.

**107. Procedure – Date/Time Performed**

<b>Name of Data Element:</b>	Procedure – Date/Time Performed
<b>Priority:</b>	Desirable
<b>Definition:</b>	The date and time the procedure was performed on the patient.
<b>National Element:</b>	No
<b>NHTSA 2:</b>	E19_01
<b>XML:</b>	XSD Data Type: <i>xs:datetime</i> XSD Domain (Simple Type): <i>DateTime</i> Multiple Entry Configuration: No Accepts Null Values: Yes, null value is blank or empty <b>Required in XSD: No</b>

**Content:** Time and date the procedure was performed.

**Discussion and Justification:** Part of an EMS Medical Record. Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

**Business Rules:** All records must have a Procedure Successful value entered for any procedure reported. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be marked as non-compliant by the system.

**Technical Comments:** Date and times are to be transmitted using Greenwich Meantime (ref: NHTSA Dataset and XSD change log 2.2.1, March 31, 2006). Format example, 2006-04-04T08:05:00.0Z

**108. Procedure – Crewmember Certification Number**

<b>Name of Data Element:</b>	Procedure Crewmember Certification Number			
<b>Priority:</b>	Essential			
<b>Definition:</b>	The statewide assigned certification / licensure number of the EMS crewmember performing the procedure on the patient.			
<b>National Element:</b>	No			
<b>NHTSA 2:</b>	E19_09			
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>CrewMemberID</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes, via structure <b>Required in XSD: No</b> Minimum Constraint = 2 Maximum Constraint = 15			
<b>Field Values:</b>				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available		Relevant value

**Content:** The crewmember's certification/license number who performed the skill

**Discussion and Justification:** Part of an EMS Medical Record and to document the Procedure performance. Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

**Business Rules:** All records must have a Procedure Crewmember Certification Number value entered for any procedure reported. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be marked as non-compliant by the system

**Technical Comments:** XSD Structure: Members of E19\_01\_0 Procedure Structure. The Procedure Crewmember Certification Number entered must be present in the record in section E04\_01.

**109. Procedure or Treatment Name**

<b>Name of Data Element:</b>	Procedure or Treatment Name		
<b>Priority:</b>	Essential		
<b>Definition:</b>	Identification of crewmember position and the procedure they attempted or performed on patient.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E19_03		
<b>XML:</b>	XSD Data Type: <i>xs:decimal</i> XSD Domain (Simple Type): <i>Procedure</i> Multiple Entry Configuration: Yes Accepts Null Values: Yes <b>Required in XSD: Yes</b> Minimum Constraint: 1 Maximum Constraint: 1000		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	77.000	Not Listed
89.820	12 Lead EKG	93.930	Airway-Bagged
93.931	Airway-BVM	97.230	Airway-Change Tracheotomy Tube
98.130	Airway-Cleared	96.051	Airway-Combitube
93.900	Airway-CPAP	96.030	Airway-EOA/EGTA
96.991	Airway-Intubation Confirm CO2	96.992	Airway-Intubation Confirm Esophageal Bulb
96.052	Airway-Laryngeal Mask	96.010	Airway-Nasal
96.041	Airway-Nasotracheal Intubation	93.940	Airway-Nebulizer Treatment
31.110	Airway-Needle Cricothyrotomy	96.020	Airway-Oral
96.040	Airway-Orotracheal Intubation	96.790	Airway-PEEP
96.042	Airway-Rapid Sequence Induction	93.910	Airway-Respirator Operation (BLS)
98.150	Airway-Suctioning	31.120	Airway-Surgical Cricothyrotomy
96.700	Airway-Ventilator Operation	96.701	Airway-Ventilator with PEEP
38.910	Arterial Blood Draw	89.610	Arterial Line Maintenance

89.700	Assessment-Adult	89.701	Assessment-Pediatric
38.995	Blood Glucose Analysis	89.391	Capnography
89.510	Cardiac Monitor	99.624	Cardiac Pacing-External
99.626	Cardiac Pacing-Transvenous	99.623	Cardioversion
99.640	Carotid Massage	34.041	Chest Decompression
34.042	Chest Tube Placement	73.590	Childbirth
1.181	CNS Catheter-Epidural Maintenance	1.182	CNS Catheter-Intraventricular Maintenance
99.600	CPR	99.601	CPR by External Automated Device
86.280	Decontamination	99.621	Defibrillation-Automated (AED)
99.622	Defibrillation-Manual	99.625	Defibrillation-Placement for Monitoring/Analysis
100.200	Extrication	99.290	Injections-SQ/IM
37.611	Intra-Aortic Balloon Pump	93.580	MAST
96.070	Nasogastric Tube Insertion	89.590	Orthostatic Blood Pressure Measurement
89.702	Pain Measurement	89.392	Pulse Oximetry
100.100	Rescue	99.841	Restraints-Pharmacological
99.842	Restraints-Physical	93.591	Spinal Immobilization
93.540	Splinting-Basic	93.450	Splinting-Traction
89.703	Temperature Measurement	89.704	Thrombolytic Screen
57.940	Urinary Catheterization	38.990	Venous Access-Blood Draw
89.620	Venous Access-Central Line Maintenance	39.997	Venous Access-Discontinue
38.991	Venous Access-Existing Catheter	38.993	Venous Access-External Jugular Line
38.992	Venous Access-Extremity	38.994	Venous Access-Femoral Line
39.995	Venous Access-Internal Jugular Line	41.920	Venous Access-Intraosseous Adult
41.921	Venous Access-Intraosseous Pediatric	39.996	Venous Access-Subclavian Line
89.640	Venous Access-Swan Ganz Maintenance	93.057	Wound Care

**Content:** The procedure performed on the patient.

**Discussion and Justification:** Allows data to be sorted based on the medical treatment. Allows data to describe the procedures that are performed by EMS. Part of an EMS Medical Record. Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

Intended to provide planners and educators with information about which procedures are conducted in the field, by whom, and for what indications. Procedures are defined here as anything done by way of assessment or treatment of the patient. Thus, application of a cervical collar is a treatment, use of a cardiac monitor is a tool of assessment, and drawing blood tubes is neither a specific treatment nor a means of field assessment. All of these would be considered procedures for purposes of this data element.

The Iowa State Office of EMS derived this list to track recognized procedures and treatments occurring in the field. Agencies should identify other procedures not listed as 'Other'.

**Business Rules:** All records must have a Procedure value entered. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be rejected by the system.

**Technical Comments:** XSD Structure: Members of E19\_01\_0 Procedure Structure.

77.000          Other

This is to be coded when a crewmember does a procedure not listed in the data item list.

-25          Not Applicable

This is to be coded if a patient was encountered and did not receive any procedures or treatment. This is not to be used if no patient was encountered or the incident does not require entry of a procedure or treatment. When used this should be the only code submitted in the field.

**110. Procedure Successful**

<b>Name of Data Element:</b>	Procedure Successful			
<b>Priority:</b>	Essential			
<b>Definition:</b>	Indication of whether or not the procedure performed on the patient was successful			
<b>National Element:</b>	Yes			
<b>NHTSA 2:</b>	E19_06			
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>YesNoValue</i> Multiple Entry Configuration: Yes, via structure Accepts Null Values: Yes <b>Required in XSD: Yes</b>			
<b>Field Values:</b>				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available	0	No
	1	Yes		

**Content:** Documents if a procedure was completed successfully.

**Discussion and Justification:** Allows data to be sorted based on the medical treatment. Allows data to describe the procedures performed by EMS with respect to numbers and success rates. Part of an EMS Medical Record. Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

**Business Rules:** All records must have a Procedure Successful value entered for any procedure reported. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be marked as non-compliant by the system.

**Technical Comments:** XSD Structure: Members of E19\_01\_0 Procedure Structure.

-25 Not applicable  
This is to be coded if a procedure performed is such that Successfulness cannot be identified.

**111. Number of Procedure Attempts**

<b>Name of Data Element:</b>	Number of Procedure Attempts		
<b>Priority:</b>	Essential		
<b>Definition:</b>	The number of attempts taken to complete a procedure or intervention regardless of success.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E19_05		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>NumberOfProcedureAttempts</i> Multiple Entry Configuration: Yes, via structure Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	0-100	Actual Number

**Content:** The number of attempts taken to complete a procedure or intervention regardless of success

**Discussion and Justification:** Allows data to describe the procedures, which are performed by EMS. Part of an EMS Medical Record. Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

**Business Rules:** All records must have a Number of Procedure Attempts value entered for any procedure reported. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be marked as non-compliant by the system.

**Technical Comments:** XSD Structure: Members of E19\_01\_0 Procedure Structure.

-25 Not applicable  
This is to be coded if a procedure performed is such that Attempts are not documented.

**112. Procedure Complications**

<b>Name of Data Element:</b>	Procedure Complications		
<b>Priority:</b>	Essential		
<b>Definition:</b>	Any complication associated with the performance of the procedure on the patient by EMS.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E19_07		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>ProcedureComplication</i> Multiple Entry Configuration: Yes, via structure. Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	4500	None
4505	Altered Mental Status	4510	Apnea
4515	Bleeding	4520	Bradycardia
4525	Diarrhea	4530	Esophageal Intubation – immediately
4535	Esophageal Intubation-other	4540	Extravasation
4545	Hypertension	4550	Hyperthermia
4555	Hypotension	4560	Hypoxia
4565	Injury	4570	Itching/Urticaria
4575	Nausea	4580	Other
4585	Respiratory Distress	4590	Tachycardia
4595	Vomiting		

**Content:** Any complication associated with the performance of the procedure on the patient by EMS.

**Discussion and Justification:** Allows data to be sorted based on procedure complication. Allows data to describe procedure complications, which occur as a result of EMS treatment as part of a federal initiative to identify and reduce medical errors. Part of an EMS Medical Record. Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools. Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Business Rules:** All records must have a Procedure Complications value entered for any procedure reported. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be marked as non-compliant by the system.

**Technical Comments:** XSD Structure: Members of E19\_01\_0 Procedure Structure.

-25 Not applicable

This is to be coded if a procedure performed is such that Procedure Complications are not documented.

**113. Procedure Authorization**

<b>Name of Data Element:</b>	Procedure Authorization		
<b>Priority:</b>	Desirable		
<b>Definition:</b>	The type of procedure authorization obtained		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E19_10		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): Procedure Authorization Multiple Entry Configuration: Yes, via structure. Accepts Null Values: Yes <b>Required in XSD: No</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		
4615	On-Line	4620	On Scene
4625	Protocol (Standing Order)	4630	Written Orders (Patient Specific)

**Content:** Documents the type of authorization obtained to perform the procedure

**Discussion and Justification:** Part of an EMS Medical Record. Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools. Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Business Rules:** All records must have a Procedure Authorization value entered for any procedure reported. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be marked as non-compliant by the system.

**Technical Comments:** XSD Structure: Members of E19\_01\_0 Procedure Structure.

-25 Not applicable

This is to be coded if a procedure performed is such that Procedure Authorization is not documented.

**114. Medication – Date/Time Administered**

<b>Name of Data Element:</b>	Medication – Date/Time Administered
<b>Priority:</b>	Desirable
<b>Definition:</b>	The date/time medication administered to the patient
<b>National Element:</b>	No
<b>NHTSA 2:</b>	E18_01
<b>XML:</b>	XSD Data Type: <i>xs:datetime</i> XSD Domain (Simple Type): <i>DateTime</i> Multiple Entry Configuration: No Accepts Null Values: Yes, null value is blank or empty <b>Required in XSD: No</b>

**Content:** Time and date the medication was administered.

**Discussion and Justification:** Part of an EMS Medical Record. Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

**Business Rules:** All records must have a Medication – Date/Time Administered value entered for any medication administration reported. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be marked as non-compliant by the system.

**Technical Comments:** Date and times are to be transmitted using Greenwich Meantime (ref: NHTSA Dataset and XSD change log 2.2.1, March 31, 2006). Format example, 2006-04-04T08:05:00.0Z

**115. Medication – Crewmember Certification Number**

<b>Name of Data Element:</b>	Medication Crewmember Certification Number			
<b>Priority:</b>	Essential			
<b>Definition:</b>	The statewide assigned ID number of the EMS crew member giving the treatment to the patient			
<b>National Element:</b>	No			
<b>NHTSA 2:</b>	E18_09			
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>CrewMemberID</i> Multiple Entry Configuration: <b>Yes</b> Accepts Null Values: <b>Yes, via structure</b> <b>Required in XSD: No</b> Minimum Constraint = 2 Maximum Constraint = 15			
<b>Field Values:</b>				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available		Relevant value

**Content:** The crewmember’s certification/license number who administered the medication.

**Discussion and Justification:** Part of an EMS Medical Record and to document the medication administration. Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

**Business Rules:** All records must have a Medication Crewmember Certification Number value entered for any medication administration reported. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be marked as non-compliant by the system

**Technical Comments:** XSD Structure: Members of E18 Medication Structure. The Procedure Crewmember Certification Number entered must be present in the record in section E04\_01.

**116. Medication Name**

<b>Name of Data Element:</b>	Medication Name		
<b>Priority:</b>	Essential		
<b>Definition:</b>	The medication given to the patient.		
<b>National Element:</b>	Yes, modified		
<b>NHTSA 2:</b>	E18_03		
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>MedicationGiven</i> Multiple Entry Configuration: Yes, via structure. Accepts Null Values: Yes <b>Required in XSD: Yes</b> Minimum Constraint = 2 Maximum Constraint = 30		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		Relevant indexes from Appendix D
<a href="#">Refer to Appendix D</a>			

**Content:** Document the medication administered to the patient.

**Discussion and Justification:** Part of an EMS Medical Record. Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

Intended to provide planners and educators with information about which drugs are administered in the field, by whom, and for what indications. It is likely that each responder agency will have its own list of drugs, which are carried by the response vehicles, and this list should be used for the data collection efforts of that agency. The Iowa Department of Public Health, Bureau of EMS derived this list to track recognized the current state approved list of medications being used in the field. It is not expected that every agency will permit its providers to use or carry all these drugs. Agencies that administer medications not listed should mark those as ‘Other’.

**Business Rules:** All records must have a Medication Name value entered. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be rejected by the system.

**Technical Comments:** At this time a national drug index or coding scheme, which would allow for a single code to be assigned to a single drug, does not exist. The Drug List may contain any generic or trade name of a drug approved by the FDA and administered by EMS. The transmission of a drug name as a string presents to be problematic in the proper collection of data. NEMSIS failed to provide a proper medication numbering schema for the accurate collection of medication data.

**\*\*The Iowa Department of Public Health, Bureau of EMS derived this medication list with indexes to improve the reporting capability. It is expected that software vendors submit the corresponding medication index value and not send the medication name. The XML/XSD schema will not change, it will allow for the substitution of index value instead of name for this element.**

77 Other

This is to be coded for the medication when a crewmember administers a medication not listed in the data item list.

-25 Not Applicable

This is to be coded if an incident was encountered and there was no need to administer any medications.

**117. Medication Complications**

<b>Name of Data Element:</b>	Medication Complications		
<b>Priority:</b>	Essential		
<b>Definition:</b>	Any complication (abnormal effect on the patient) associated with the administration of the medication to the patient by EMS.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E18_08		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>MedicationComplication</i> Multiple Entry Configuration: Yes, via structure. Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	4390	None
4395	Altered Mental Status	4400	Apnea
4405	Bleeding	4410	Bradycardia
4415	Diarrhea	4420	Extravasation
4425	Hypertension	4430	Hyperthermia
4435	Hypotension	4440	Hypoxia
4445	Injury	4450	Itching/Urticaria
4455	Nausea	4460	Other
4465	Respiratory Distress	4470	Tachycardia
4475	Vomiting		

**Content:** Any complication (abnormal effect on the patient) associated with the administration of the medication to the patient by EMS.

**Discussion and Justification:** Allows data to be sorted based on medication complication. Allows data to describe medication complications, which occur as a result of EMS treatment. Part of an EMS Medical Record. Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools. Used in Quality Management for the evaluation of Care and EMS Agency Performance.

**Business Rules:** All records must have a Medication Complications value entered for any medication administration reported. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an

invalid entry will be marked as non-compliant by the system.

**Technical Comments:** XSD Structure: Members of E18 Medication Structure.

-25 Not applicable

This is to be coded if a medication administered is such that Medication Complications are not documented.

**118. Medication Authorization**

<b>Name of Data Element:</b>	Medication Authorization		
<b>Priority:</b>	Desirable		
<b>Definition:</b>	The type of medication administration authorization obtained		
<b>National Element:</b>	No		
<b>NHTSA 2:</b>	E18_10		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): MedicationAuthorization Multiple Entry Configuration: Yes, via structure. Accepts Null Values: Yes <b>Required in XSD: No</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available		
4480	On-Line	4485	On Scene
4490	Protocol (Standing Order)	4495	Written Orders (Patient Specific)

**Content:** Documents the type of authorization obtained to administer the medication.

**Discussion and Justification:** Part of an EMS Medical Record. Reports on Medications and Skills performed along with Protocols used provide key performance evaluation tools. Used in Quality Management for the evaluation of Care and EMS Agency Performance

**Business Rules:** All records must have a Medication Authorization value entered for any medication reported. If the incident is appropriate to not report this data element, then this element would be submitted following the null rules (E00). Records with missing or an invalid entry will be marked as non-compliant by the system.

**Technical Comments:** XSD Structure: Members of E18 Medication Structure.

-25 Not applicable

This is to be coded if a procedure performed is such that Medication Authorization is not documented.

**119. Primary Method of Payment**

<b>Name of Data Element:</b>	Primary Method of Payment		
<b>Priority:</b>	Essential		
<b>Definition:</b>	The primary method of payment or type of insurance associated with this EMS encounter.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E07_01		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>PrimaryMethodOfPayment</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	720	Insurance
725	Medicaid	730	Medicare
735	Not Billed (for any reason)	740	Other Government
745	Self Pay	750	Workers Compensation

**Content:** The primary method of payment or type of insurance associated with this EMS encounter.

**Discussion and Justification:** A component of the EMS Medical Record: Patient Care Report. Allows data to be sorted based on the payer mix. Allows data to describe the EMS patient population's payer mix. Maybe collected electronically through linkage with a pre-existing Patient Care Report or hospital database.

**Business Rules:** All records submitted must have a Primary Method of Payment entered. Records with missing or an invalid entry will be rejected by the system.

**Technical Comments:** If the provider or submitting software is unaware of this information then the element should be submitted with one of the above listed NEMESIS Section E00 (Common Null) field values.

**120. Condition Code Number**

<b>Name of Data Element:</b>	Condition Code Number		
<b>Priority:</b>	Essential		
<b>Definition:</b>	The condition codes are used to better describe the service and patient care delivery by an EMS service. Please consult CMS documentation for detailed descriptions of these condition codes and their use.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E07_35		
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>ConditionCodeNumber</i> Multiple Entry Configuration: Yes, via structure Accepts Null Values: Yes <b>Required in XSD: Yes</b> Minimum Constraint: 2 Maximum Constraint: 30		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	8001	Severe Abdominal Pain
8002	Abdominal Pain (ALS-789.00)	8003	Abnormal Cardiac Rhythm/Cardiac Dysrhythmia (ALS-427.9)
8004	Abnormal Skin Signs (ALS-780.8)	8005	Abnormal Vital Signs (ALS-796.4)
8006	Allergic Reaction (ALS-995.0)	8007	Allergic Reaction (BLS-692.9)
8008	Blood Glucose (ALS-790.21)	8009	Respiratory Arrest (ALS-799.1)
8010	Difficulty Breathing (ALS-786.05)	8011	Cardiac Arrest-Resuscitation in Progress (ALS-427.5)
8012	Chest Pain (non-traumatic) (ALS-786.50)	8013	Choking Episode (ALS-784.9)
8014	Cold Exposure (ALS-991.6)	8015	Cold Exposure (BLS-991.9)
8016	Altered Level of Consciousness (non-traumatic) (ALS-780.01)	8017	Convulsions/Seizures (ALS-780.39)
8018	Eye Symptoms (non-traumatic) (BLS-379.90)	8019	Non Traumatic Headache (ALS-437.9)
8020	Cardiac Symptoms other than Chest Pain (palpitations) (ALS-785.1)	8021	Cardiac Symptoms other than Chest Pain (atypical pain) (ALS-536.2)
8022	Heat Exposure (ALS-992.5)	8023	Heat Exposure (BLS-992.2)

8024	Hemorrhage (ALS-459.0)	8025	Infectious Diseases requiring Isolation/Public Health Risk (BLS-038.9)
8026	Hazmat Exposure (ALS-987.9)	8027	Medical Device Failure (ALS-996.0)
8028	Medical Device Failure (BLS-996.3)	8029	Neurologic Distress (ALS-436.0)
8030	Pain (Severe) (ALS-780.99)	8031	Back Pain (non-traumatic possible cardiac or vascular) (ALS-724.5)
8032	Back Pain (non-traumatic with neurologic symptoms) (ALS-724.9)	8033	Poisons (all routes) (ALS-977.9)
8034	Alcohol Intoxication or Drug Overdose (BLS-305.0)	8035	Severe Alcohol Intoxication (ALS-977.3)
8036	Post-Operative Procedure Complications (BLS-998.9)	8037	Pregnancy Complication/Childbirth/Labor (ALS-650.0)
8038	Psychiatric/Behavioral (abnormal mental status) (ALS-292.9)	8039	Psychiatric/Behavioral (threat to self or others) (BLS-298.9)
8040	Sick Person-Fever (BLS-036.9)	8041	Severe Dehydration (ALS-787.01)
8042	Unconscious/Syncope/Dizziness (ALS-780.02)	8043	Major Trauma (ALS-959.8)
8044	Other Trauma (need for monitor or airway) (ALS-518.5)	8045	Other Trauma (major bleeding) (ALS-958.2)
8046	Other Trauma (fracture/dislocation) (BLS-829.0)	8047	Other Trauma (penetrating extremity) (BLS-880.0)
8048	Other Trauma (amputation digits) (BLS-886.0)	8049	Other Trauma (amputation other) (ALS-887.4)
8050	Other Trauma (suspected internal injuries) (ALS-869.0)	8051	Burns-Major (ALS-949.3)
8052	Burns-Minor (BLS-949.2)	8053	Animal Bites/Sting/Envenomation (ALS-989.5)
8054	Animal Bites/Sting/Envenomation (BLS-879.8)	8055	Lightning (ALS-994.0)
8056	Electrocution (ALS-994.8)	8057	Near Drowning (ALS-994.1)
8058	Eye Injuries (BLS-921.9)	8059	Sexual Assault (major injuries) (ALS-995.83)
8060	Sexual Assault (minor injuries) (BLS-995.8)	8061	Cardiac/Hemodynamic Monitoring Required (ALS-428.9)
8062	Advanced Airway Management (ALS-518.81)	8063	IV Meds Required (ALS-No ICD code provided))
8064	Chemical Restraint (ALS-	8065	Suctioning/Oxygen/IV fluids

	293.0)		required (BLS-496.0)
8066	Airway Control/Positioning Required (BLS-786.09)	8067	Third Party Assistance/Attendant Required (BLS-496.0)
8068	Patient Safety (restraints required) (BLS-298.9)	8069	Patient Safety (monitoring required) (BLS-293.1)
8070	Patient Safety (seclusion required) (BLS-298.8)	8071	Patient Safety (risk of falling off stretcher) (BLS-781.3)
8072	Special Handling (Isolation) (BLS-041.9)	8073	Special Handling (orthopedic device required) (BLS-907.2)
8074	Special Handling (positioning required) (BLS-719.45)		

**Content:** CMS condition codes.

**Discussion and Justification:** Allows data to be quantified and described based on the Condition Code. Allows data to be sorted based on the Condition Code. Important for EMS billing. A list of 95 Condition Codes which are mapped to ICD-9 Codes. The number of the Condition Code should be stored in this field. From the Center for Medicare and Medicaid Services (CMS) Ambulance Fee Schedule Condition Based Coding

**Business Rules:** All records submitted must have a Condition Code Number entered. Records with missing or an invalid entry will be rejected by the system.

**Technical Comments:** If the provider or submitting software is unaware of this information then the element should be submitted with one of the above listed NEMESIS Section E00 (Common Null) field values.

**121. Emergency Department Disposition**

<b>Name of Data Element:</b>	Emergency Department Disposition		
<b>Priority:</b>	Essential		
<b>Definition:</b>	The known disposition of the patient from the Emergency Department (ED).		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E22_01		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>EmergencyDepartmentDisposition</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	5335	Admitted to Hospital Floor
5340	Admitted to Hospital ICU	5345	Death
5350	Not Applicable (Not Transported to ED)	5355	Released
5360	Transferred		

**Content:** The known disposition of the patient from the Emergency Department (ED).

**Discussion and Justification:** Allows data to be sorted based on the EMS patient outcome. Allows data to describe EMS patient outcome. Could be collected by EMS Administration or electronically provided through linkage with hospital databases

**Business Rules:** All records submitted must have an Emergency Department Disposition entered. Records with missing or an invalid entry will be rejected by the system.

**Technical Comments:** If the provider or submitting software is unaware of this information then the element should be submitted with one of the above listed NEMESIS Section E00 (Common Null) field values.

**122. Hospital Disposition**

<b>Name of Data Element:</b>	Hospital Disposition		
<b>Priority:</b>	Essential		
<b>Definition:</b>	Indication of how the patient was dispositioned from the hospital, if admitted.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	E22_02		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>HospitalDisposition</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
-25	Not Applicable	-20	Not Recorded
-15	Not Reporting	-10	Not Known
-5	Not Available	5365	Death
5370	Discharged	5375	Transfer to Hospital
5380	Transfer to Nursing Home	5385	Transfer to Other
5390	Transferred to Rehabilitation Facility		

**Content:** Indication of the patient's disposition at the hospital, if admitted.

**Discussion and Justification:** Allows data to be sorted based on the EMS patient outcome. Allows data to describe EMS patient outcome. Could be collected by EMS Administration or electronically provided through linkage with hospital databases

**Business Rules:** All records submitted must have a Hospital Disposition entered. Records with missing or an invalid entry will be rejected by the system.

**Technical Comments:** If the provider or submitting software is unaware of this information then the element should be submitted with one of the above listed NEMSIS Section E00 (Common Null) field values.

**123. Research Survey Field**

<b>Name of Data Element:</b>	Research Survey Field
<b>Priority:</b>	None
<b>Definition:</b>	A customizable field to be used by local agencies for additional documentation or research.
<b>National Element:</b>	No
<b>NHTSA 2:</b>	E23_09
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>ResearchField</i> Multiple Entry Configuration: Yes, via structure Accepts Null Values: No <b>Required in XSD: No</b> Minimum Constraint: 2 Maximum Constraint: 30

**Content:** A customizable field used to hold the value of data collected for additional documentation or research activity approved by or in conjunction with the Iowa Bureau of EMS.

**Discussion and Justification:** The use of the research survey fields allow for the collection of data or documentation of issues related to research or short term evaluation

**Business Rules:** None.

**Technical Comments:** Submission should only be for data or documentation under the directive of the Iowa Bureau of EMS. Data or documentation should be in the format identified at the time of the directive.

XSD Structure: Members of E23\_09\_0 Research Data Structure.

**124. Research Survey Field Title**

<b>Name of Data Element:</b>	Research Survey Field Title
<b>Priority:</b>	None
<b>Definition:</b>	A customizable field to be used by local agencies for additional documentation or research.
<b>National Element:</b>	No
<b>NHTSA 2:</b>	E23_11
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>ResearchTitle</i> Multiple Entry Configuration: Yes, via structure Accepts Null Values: No <b>Required in XSD: No</b> Minimum Constraint: 2 Maximum Constraint: 30

**Content:** A customizable field used to identify the source or title of the data collected in E23\_09.

**Discussion and Justification:** The use of the research survey fields allow for the collection of data or documentation of issues related to research or short term evaluation.

**Business Rules:** None

**Technical Comments:** Submission should only be for data or documentation under the directive of the Iowa Bureau of EMS. Data or documentation should be in the format identified at the time of the directive.

XSD Structure: Members of E23\_09\_0 Research Data Structure.

**125. Software Creator**

<b>Name of Data Element:</b>	Software Creator
<b>Priority:</b>	Mandatory
<b>Definition:</b>	The name of the software vendor by whom the data collection software was developed
<b>National Element:</b>	Yes
<b>NHTSA 2:</b>	E01_02
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>SoftwareCreatedBy</i> Multiple Entry Configuration: No Accepts Null Values: No <b>Required in XSD: Yes</b> Minimum Constraint: 3 Maximum Constraint: 32

**Content:** Simply the certified software vendor that collected the data and created the XML export.

**Discussion and Justification:** Important for grouping or comparing the accuracy of software used by EMS agencies in data collection.

**Business Rules:** All records submitted must have NEMSIS Silver compliant or greater certified Software Creator entered. Records with missing or an invalid entry will be rejected by the system.

**Technical Comments:** EMS Agency and typically only documented once then verified and updated yearly or when changed.

**126. Software Name**

<b>Name of Data Element:</b>	Software Name
<b>Priority:</b>	Mandatory
<b>Definition:</b>	The name of the software package with which the data was collected by the agency.
<b>National Element:</b>	Yes
<b>NHTSA 2:</b>	E01_03
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>SoftwareName</i> Multiple Entry Configuration: No Accepts Null Values: No <b>Required in XSD: Yes</b> Minimum Constraint: 3 Maximum Constraint: 30

**Content:** Simply the name of the certified software package that collected the data and created the XML export.

**Discussion and Justification:** Important for grouping or comparing the accuracy of software used by EMS agencies in data collection.

**Business Rules:** All records submitted must have NEMSIS Silver compliant or greater certified Software Name entered. Records with missing or an invalid entry will be rejected by the system.

**Technical Comments:** EMS Agency and typically only documented once then verified and updated yearly or when changed

**127. Software Version**

<b>Name of Data Element:</b>	Software Version
<b>Priority:</b>	Mandatory
<b>Definition:</b>	The version of the software used by the agency to collect the data
<b>National Element:</b>	Yes
<b>NHTSA 2:</b>	E01_04
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>SoftwareVersion</i> Multiple Entry Configuration: No Accepts Null Values: No <b>Required in XSD: Yes</b> Minimum Constraint: 3 Maximum Constraint: 30

**Content:** Simply the version number of the software package that collected the data and created the XML export.

**Discussion and Justification:** This should correspond to the NEMSIS certified version listed on the NEMSIS website. Important for grouping or comparing the accuracy of software used by EMS agencies in data collection.

**Business Rules:** All records submitted must have NEMSIS Silver compliant or greater certified Software Version entered. Records with missing or an invalid entry will be rejected by the system.

**Technical Comments:** EMS Agency and typically only documented once then verified and updated yearly or when changed

# Demographic Dataset

EMS Agency and typically only documented once then verified and updated yearly or when changed.

**128. EMS Agency Number**

<b>Name of Data Element:</b>	EMS Agency Number
<b>Priority:</b>	Mandatory
<b>Definition:</b>	The state-assigned provider number of the responding agency.
<b>National Element:</b>	Yes
<b>NHTSA 2:</b>	D01_01
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>EMSAgencyNumber</i> Multiple Entry Configuration: No Accepts Null Values: No <b>Required in XSD: Yes</b> Minimum Constraint: 7 Maximum Constraint: 7
<b>Field Values:</b>	<a href="#">Refer to Appendix A</a> (EMS Agency List) for Agency Number

**Content:** This element consists of the State assigned agency number or affiliate number of the responding agency.

**Discussion and Justification:** The state-assigned provider number of the responding agency. All EMS Agency demographic information is associated with the EMS agency number. A unique value must be provided to create a unique record ID within a database. The same as EMS Agency Number (E02\_01). This could be used to auto fill E02\_01 on the Patient Care Report. This data element is unique and is typically sequential

**Business Rules:** All demographic dataset submitted must have an EMS Agency Number entered. The Agency number must be from the approved agency list as published by the Iowa Department of Public Health, Bureau of EMS. Records with a missing or an invalid entry will be rejected by the system.

**Technical Comments:** The first 2 digits are the agency's county of origin's numerical identifier, followed by the 5 digits of the agency's IDPH license number. Not Nullable.

EMS Agency and typically only documented once then verified and updated yearly or when changed.

**129. EMS Agency State**

<b>Name of Data Element:</b>	EMS Agency State
<b>Priority:</b>	Mandatory
<b>Definition:</b>	The state in which the Agency provides services.
<b>National Element:</b>	Yes
<b>NHTSA 2:</b>	D01_03
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>AgencyState</i> Multiple Entry Configuration: Yes Accepts Null Values: No <b>Required in XSD: Yes</b> Minimum Constraint: 2 Maximum Constraint: 2
<b>Field Values:</b>	<a href="#">Refer to Appendix F</a> 2 digit State FIPS Codes

**Content:** This element consists of the state primarily serviced or licensed in of the responding agency.

**Discussion and Justification:** For national submission to NEMESIS. Combines with Agency number (E02\_01), agency state (D01\_03), unit call sign (E02\_12), patient number (E01\_01) and date (E05\_04) to create a unique identifier. Allows national reporting based on state.

**Business Rules:** All demographic dataset submitted must have an EMS Agency State entered. The State FIPS number must be from the approved State FIPS list as published by the Iowa Department of Public Health, Bureau of EMS. Records with a missing or an invalid entry will be rejected by the system.

**Technical Comments:** Consists of the 2-digit FIPS numeric code, not the State abbreviation. A unique value must be provided to create a unique record ID within a database.

EMS Agency and typically only documented once then verified and updated yearly or when changed.

**130. EMS Agency County**

<b>Name of Data Element:</b>	EMS Agency County
<b>Priority:</b>	Mandatory
<b>Definition:</b>	The county(s) for which the agency formally provides service.
<b>National Element:</b>	Yes
<b>NHTSA 2:</b>	D01_04
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>AgencyCounty</i> Multiple Entry Configuration: Yes Accepts Null Values: No <b>Required in XSD: Yes</b> Minimum Constraint: 2 Maximum Constraint: 2
<b>Field Values:</b>	<a href="#">Refer to Appendix E</a> 2 digit County FIPS Code

**Content:** This element consists of the county(s) primarily serviced by the responding agency.

**Discussion and Justification:** For national submission to NEMESIS. Allows national reporting for coverage based on state and county.

**Business Rules:** All demographic dataset submitted must have one EMS Agency County entered. The County FIPS number must be from the approved FIPS list as published by the Iowa Department of Public Health, Bureau of EMS. Records with a missing or an invalid entry will be rejected by the system.

**Technical Comments:** Consists of the 8-digit FIPS numeric code, not the County name or abbreviation. A unique value must be provided to create a unique record ID within a database. Stored as an 8 digit FIPS code (combining the state and county code) to take into account agencies may serve more than one state and counties are often named the same from state to state.

EMS Agency and typically only documented once then verified and updated yearly or when changed.

**131. Level of Service**

<b>Name of Data Element:</b>	Level of Service														
<b>Priority:</b>	Mandatory														
<b>Definition:</b>	The highest credentialed personnel's level of service which the agency provides for every EMS encounter if requested.														
<b>National Element:</b>	Yes														
<b>NHTSA 2:</b>	D01_07														
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>DemographicStateCertificationLicensureLevels</i> Multiple Entry Configuration: No Accepts Null Values: No <b>Required in XSD: Yes</b>														
<b>Field Values:</b>															
<table border="1"> <tr> <td>6090</td> <td>EMT-Basic</td> <td>6100</td> <td>EMT-Intermediate</td> </tr> <tr> <td>6110</td> <td>EMT-Paramedic</td> <td>6111</td> <td>Nurse</td> </tr> <tr> <td>6112</td> <td>Physician</td> <td>6120</td> <td>First Responder</td> </tr> </table>				6090	EMT-Basic	6100	EMT-Intermediate	6110	EMT-Paramedic	6111	Nurse	6112	Physician	6120	First Responder
6090	EMT-Basic	6100	EMT-Intermediate												
6110	EMT-Paramedic	6111	Nurse												
6112	Physician	6120	First Responder												

**Content:** The highest credentialed personnel's level of service, which the agency provides for every EMS encounter if requested. In a tiered response system, this is the highest level of service, which could be sent to any specific call.

**Discussion and Justification:** Allows data to be sorted based on an agency's level of service. Provides description of EMS Personnel. Provides descriptive information when combined with an EMS Agency's Billing Status.

**Business Rules:** All demographic dataset submitted must have one Level of Service entered. Records with a missing or an invalid entry will be rejected by the system.

**Technical Comments:** Consists of the field value corresponding to the appropriate level.

EMS Agency and typically only documented once then verified and updated yearly or when changed.

**132. Organizational Type**

<b>Name of Data Element:</b>	Organizational Type			
<b>Priority:</b>	Mandatory			
<b>Definition:</b>	The organizational structure from which EMS services are delivered (fire, hospital, county, etc.)			
<b>National Element:</b>	Yes			
<b>NHTSA 2:</b>	D01_08			
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): OrganizationalType Multiple Entry Configuration: No Accepts Null Values: No <b>Required in XSD: Yes</b>			
<b>Field Values:</b>				
	5810	Community, Non-Profit	5820	Fire Department
	5830	Governmental, Non-Fire	5840	Hospital
	5850	Private, Non_Hospital	5860	Tribal

**Content:** Documents the organizational type of the EMS agency.

**Discussion and Justification:** Allows data to be sorted based on an agency's organizational structure. Provides description of EMS agencies across the nation.

**Business Rules:** All demographic dataset submitted must have an Organization Type entered. Records with a missing or an invalid entry will be rejected by the system.

**Technical Comments:** EMS Agency and typically only documented once then verified and updated yearly or when changed.

**133. Organizational Status**

<b>Name of Data Element:</b>	Organizational Status								
<b>Priority:</b>	Mandatory								
<b>Definition:</b>	The primary organizational status of the agency. The definition of Volunteer or Non-Volunteer is based on state or local terms.								
<b>National Element:</b>	Yes								
<b>NHTSA 2:</b>	D01_09								
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): OrganizationalStatus Multiple Entry Configuration: No Accepts Null Values: No <b>Required in XSD: Yes</b>								
<b>Field Values:</b>									
<table border="1"> <tr> <td>5870</td> <td>Mixed</td> <td>5880</td> <td>Non-Volunteer</td> </tr> <tr> <td>5890</td> <td>Volunteer</td> <td></td> <td></td> </tr> </table>		5870	Mixed	5880	Non-Volunteer	5890	Volunteer		
5870	Mixed	5880	Non-Volunteer						
5890	Volunteer								

**Content:** Documents the organizational type of the EMS agency.

**Discussion and Justification:** Allows data to be sorted based on an agency's organizational status. Provides description of EMS agencies across the nation.

**Business Rules:** All demographic dataset submitted must have an Organization Status entered. Records with a missing or an invalid entry will be rejected by the system.

**Technical Comments:** EMS Agency and typically only documented once then verified and updated yearly or when changed.

**134. Statistical Year**

<b>Name of Data Element:</b>	Statistical Year
<b>Priority:</b>	Mandatory
<b>Definition:</b>	The year to which the information pertains
<b>National Element:</b>	Yes
<b>NHTSA 2:</b>	D01_10
<b>XML:</b>	XSD Data Type: <i>xs:gYear</i> XSD Domain (Simple Type): <i>StatisticalYear</i> Multiple Entry Configuration: Yes, via structure Accepts Null Values: No <b>Required in XSD: Yes</b>

**Content:** Documents the organizational type of the EMS agency.

**Discussion and Justification:** Multiple entry configurations to allow statistical data to be entered yearly. Used to identify the year to which the data pertains. Associates a year with statistical data to improve reporting capabilities.

**Business Rules:** All demographic dataset submitted must have a Statistical Year entered. Records with a missing or an invalid entry will be rejected by the system.

**Technical Comments:** Format as YYYY.

EMS Agency and typically only documented once then verified and updated yearly or when changed.

**135. Total Service Size Area**

<b>Name of Data Element:</b>	Total Service Size Area
<b>Priority:</b>	Mandatory
<b>Definition:</b>	The total square miles in the agency's service area.
<b>National Element:</b>	Yes
<b>NHTSA 2:</b>	D01_12
<b>XML:</b>	XSD Data Type: <i>xs:positiveinteger</i> XSD Domain (Simple Type): TotalServiceSizeArea Multiple Entry Configuration: Yes, via structure Accepts Null Values: Yes, null value is blank or empty <b>Required in XSD: Yes</b> Minimum Constraint = 1 Maximum Constraint = 100,000,000

**Content:** Documents the EMS agency's service area in total square miles.

**Discussion and Justification:** Allows data to be sorted based on an agency's area size. Provides description of EMS agencies across the nation.

**Business Rules:** All demographic dataset submitted must have a Total Service Size Area entered. Records with a missing or an invalid entry will be rejected by the system.

**Technical Comments:** Multiple entry configurations to allow statistical data to be entered yearly.

EMS Agency and typically only documented once then verified and updated yearly or when changed.

**136. Total Service Area Population**

<b>Name of Data Element:</b>	Total Service Area Population
<b>Priority:</b>	Mandatory
<b>Definition:</b>	The total population in the agency's service area based on year 2000 census data (if possible).
<b>National Element:</b>	Yes
<b>NHTSA 2:</b>	D01_13
<b>XML:</b>	XSD Data Type: <i>xs:positiveinteger</i> XSD Domain (Simple Type): TotalServiceAreaPopulation Multiple Entry Configuration: Yes, via structure Accepts Null Values: Yes, null value is blank or empty <b>Required in XSD: Yes</b> Minimum Constraint = 1 Maximum Constraint = 100,000,000

**Content:** The total population in the agency's service area based on year 2000 census data (if possible). This number does not include population changes associated with daily work flow or seasonal movements

**Discussion and Justification:** Allows data to be sorted based on an agency's service area population. Provides description of EMS agencies across the nation.

**Business Rules:** All demographic dataset submitted must have a Total Service Area Population entered. Records with a missing or an invalid entry will be rejected by the system.

**Technical Comments:** Baseline data should be taken from the 2000 Census data if possible. Multiple entry configurations to allow statistical data to be entered yearly.

EMS Agency and typically only documented once then verified and updated yearly or when changed.

**137. 911 Call Volume Per Year**

<b>Name of Data Element:</b>	911 Call Volume Per Year
<b>Priority:</b>	Mandatory
<b>Definition:</b>	The number of 911 EMS calls for the calendar year
<b>National Element:</b>	Yes
<b>NHTSA 2:</b>	D01_14
<b>XML:</b>	XSD Data Type: <i>xs:positiveinteger</i> XSD Domain (Simple Type): CallVolumeYear911 Multiple Entry Configuration: Yes, via structure Accepts Null Values: Yes, null value is blank or empty <b>Required in XSD: Yes</b> Minimum Constraint = 1 Maximum Constraint = 100,000,000

**Content:** Documents the EMS agency's number of 911 EMS calls for the calendar year.

**Discussion and Justification:** Allows data to be sorted based on an agency's 911 call volume per year. Provides description of EMS agencies across the nation.

**Business Rules:** All demographic dataset submitted must have a 911 Call Volume Per Year entered. Records with a missing or an invalid entry will be rejected by the system.

**Technical Comments:** EMS Agency and typically only documented once then verified and updated yearly or when changed.

**138. EMS Dispatch Volume Per Year**

<b>Name of Data Element:</b>	EMS Dispatch Volume Per Year
<b>Priority:</b>	Mandatory
<b>Definition:</b>	The number of EMS dispatches for the calendar year
<b>National Element:</b>	Yes
<b>NHTSA 2:</b>	D01_15
<b>XML:</b>	XSD Data Type: <i>xs:positiveinteger</i> XSD Domain (Simple Type): EMSDispatchVolumeYear Multiple Entry Configuration: Yes, via structure Accepts Null Values: Yes, null value is blank or empty <b>Required in XSD: Yes</b> Minimum Constraint = 1 Maximum Constraint = 100,000,000

**Content:** Documents the EMS agency's number of EMS dispatches for the calendar year.

**Discussion and Justification:** Allows data to be sorted based on an agency's dispatch volume per year. Provides description of EMS agencies across the nation.

**Business Rules:** All demographic dataset submitted must have an EMS Dispatch Volume Per Year entered. Records with a missing or an invalid entry will be rejected by the system.

**Technical Comments:** EMS Agency and typically only documented once then verified and updated yearly or when changed.

**139. EMS Transport Volume Per Year**

<b>Name of Data Element:</b>	EMS Transport Volume Per Year
<b>Priority:</b>	Mandatory
<b>Definition:</b>	The number of EMS transport for the calendar year
<b>National Element:</b>	Yes
<b>NHTSA 2:</b>	D01_16
<b>XML:</b>	XSD Data Type: <i>xs:positiveinteger</i> XSD Domain (Simple Type): EMSTransportVolumeYear Multiple Entry Configuration: Yes, via structure Accepts Null Values: Yes, null value is blank or empty <b>Required in XSD: Yes</b> Minimum Constraint = 1 Maximum Constraint = 100,000,000

**Content:** Documents the EMS agency's number of EMS transport for the calendar year.

**Discussion and Justification:** Allows data to be sorted based on an agency's transport volume per year. Provides description of EMS agencies across the nation.

**Business Rules:** All demographic dataset submitted must have an EMS Transport Volume Per Year entered. Records with a missing or an invalid entry will be rejected by the system.

**Technical Comments:** EMS Agency and typically only documented once then verified and updated yearly or when changed..

**140. EMS Patient Contact Volume Per Year**

<b>Name of Data Element:</b>	EMS Patient Contact Volume Per Year
<b>Priority:</b>	Mandatory
<b>Definition:</b>	The number of EMS patient contacts for that calendar year
<b>National Element:</b>	Yes
<b>NHTSA 2:</b>	D01_17
<b>XML:</b>	XSD Data Type: <i>xs:positiveinteger</i> XSD Domain (Simple Type): EMSPatientContactVolumeYear Multiple Entry Configuration: Yes, via structure Accepts Null Values: Yes, null value is blank or empty <b>Required in XSD: Yes</b> Minimum Constraint = 1 Maximum Constraint = 100,000,000

**Content:** Documents the EMS agency's number of EMS patient contact for the calendar year.

**Discussion and Justification:** Allows data to be sorted based on an agency's patient contact volume per year. Provides description of EMS agencies across the nation.

**Business Rules:** All demographic dataset submitted must have an EMS Patient Contact Volume Per Year entered. Records with a missing or an invalid entry will be rejected by the system.

**Technical Comments:** EMS Agency and typically only documented once then verified and updated yearly or when changed.

**141. EMS Agency Time Zone**

<b>Name of Data Element:</b>	EMS Agency Time Zone		
<b>Priority:</b>	Mandatory		
<b>Definition:</b>	The time zone for the EMS Agency.		
<b>National Element:</b>	Yes		
<b>NHTSA 2:</b>	D01_19		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): EMSAgencyTimeZone Multiple Entry Configuration: No Accepts Null Values: No <b>Required in XSD: Yes</b>		
<b>Field Values:</b>			
5900	GMT – 11:00 Midway Island, Samoa	5910	GMT – 10:00 Hawaii
5920	GMT –09:00 Alaska	5930	GMT – 08:00 Pacific
5940	GMT – 07:00 Mountain	5950	GMT – 06:00 Central
5960	GMT – 05:00 Eastern	5970	GMT – 04:00 Atlantic

**Content:** Documents the time zone of the EMS agency.

**Discussion and Justification:** Allows data to be tracked in comparison to other systems and times to better correlate in any analysis.

**Business Rules:** All demographic dataset submitted must have an EMS Agency Time Zone entered. Records with a missing or an invalid entry will be rejected by the system.

**Technical Comments:** EMS Agency and typically only documented once then verified and updated yearly or when changed.

**142. National Provider Identifier**

<b>Name of Data Element:</b>	National Provider Identifier
<b>Priority:</b>	Mandatory
<b>Definition:</b>	The National Provider Identifier associated with National Provider System (NPS) .
<b>National Element:</b>	Yes
<b>NHTSA 2:</b>	D01_21
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>NationalProviderIdentifier</i> Multiple Entry Configuration: No Accepts Null Values: Yes <b>Required in XSD: Yes</b> Minimum Constraint: 3 Maximum Constraint: 10

**Content:** The National Provider Identifier associated with National Provider System (NPS) and used in all standard HIPAA transactions such as electronic claim filing.

**Discussion and Justification:** For national submission to NEMESIS. Important for HIPAA related transactions such as electronic claims processing. The National Provider Identifier is associated with the EMS agency number.

**Business Rules:** All demographic dataset must have a National Provider Identifier entered. Records with a missing or an invalid entry will be rejected by the system.

**Technical Comments:** Generated by the National Provider System within the United States Department of Health and Human Services. Collected by the EMS agency or auto-generated by the EMS agency specific software.

EMS Agency and typically only documented once then verified and updated yearly or when changed.

**143. Agency Contact Zip Code**

<b>Name of Data Element:</b>	Agency Contact Zip Code
<b>Priority:</b>	Essential
<b>Definition:</b>	The ZIP code of the Agency contact's mailing address.
<b>National Element:</b>	Yes
<b>NHTSA 2:</b>	E02_07
<b>XML:</b>	XSD Data Type: <i>xs:string</i> XSD Domain (Simple Type): <i>DemographicZip</i> Multiple Entry Configuration: No Accepts Null Values: No <b>Required in XSD: Yes</b> Minimum Constraint: 5 Maximum Constraint: 10

**Content:** The ZIP code of the Agency contact's mailing address.

**Discussion and Justification:** Allows data to be sorted into a geographical area. Component of the EMS Agency Contact Information/Address.

**Business Rules:** All demographic dataset must have an Agency Contact Zip Code entered. Records with a missing or an invalid entry will be rejected by the system.

**Technical Comments:** Only the United State Postal Service zip codes are accepted. Can be a 5 or 9 digits Zip Code.

EMS Agency and typically only documented once then verified and updated yearly or when changed.

# Appendixes

## Appendix A EMS Agency List

Agency No.	Agency Name	Agency No.	Agency Name
		2066100	Newhall Fire Department
		2060500	North Benton Ambulance
		2060700	Urbana Area Ambulance
	<b>Adair County</b>		<b>Black Hawk County</b>
2010400	Adair County Ambulance	8078400	Air & Mobile Critical Care
2010100	Adair Fire Department	2071300	Covenant Paramedic Service
2010500	Bridgewater Fire Dept. & EMS	2071100	Dunkerton Ambulance Service
2010200	Fontanelle Fire And Rescue	2070400	Evansdale Fire Rescue
2010300	Greenfield Fire & Rescue	2070500	Hudson Vol Fire Ambulance
	<b>Adams County</b>	2070600	La Porte City Fire Department
2020200	Adams County Ambulance	2070200	Sartori Paramedic Services
2020300	Adams County Speedway Amb	2070900	Waterloo Fire Rescue
	<b>Allamakee County</b>		<b>Boone County</b>
2030300	Area Ambulance Postville	2080100	Boone County Hospital
2030100	Harpers Ferry Rescue Squad		<b>Bremer County</b>
2030500	Lansing EMS	2090700	Denver Ambulance Service
2030200	New Albin Vol Fire Dept	2090300	Sumner Emerg Medical Services
2031000	Veterans Mem.Hosp.Ambulance	2090100	Tripoli Ambulance Service
2030800	Waterville Ambulance Service	2090200	Waverly Municipal Hospital Amb
	<b>Appanoose County</b>		<b>Buchanan County</b>
2040400	Mercy Medical Ambulance	2100400	Fairbank Fire Department
2040500	Moulton Vol Ambulance Service	2100200	Jesup Ambulance Service
	<b>Audubon County</b>	2100100	Area Ambulance of Buchanan County
2050100	Audubon Fire and Rescue		<b>Buena Vista County</b>
2050200	Exira Fire Department	2110600	BV County Amb/Albert City
	<b>Benton County</b>	2110500	BV County Amb/Sioux Rapids
2060800	Belle Plaine Area Amb Service	2110100	BVCH Ambulance/Storm Lake
2060900	Blairstown Ambulance	2110800	Newell Ambulance Service
2066400	Cedar/MtAuburn 1st Responders		<b>Butler County</b>
2066300	Keystone First Responders		

<b>Agency No.</b>	<b>Agency Name</b>	<b>Agency No.</b>	<b>Agency Name</b>
2120100	Allison Bristow Ambulance	2160700	Clarence Ambulance Service
2120200	Aplington Ambulance Service	2160600	Durant Volunteer Amb Inc.
2120300	Clarksville Vol. Amb. Service	2160100	Mechanicsville Ambulance
2120800	Dumont Vol Ambulance Svc	2160200	Stanwood Ambulance Service
2120700	Greene Vol Ambulance Service	2160300	Tipton Ambulance Service
2120400	New Hartford Ambulance		
2120500	Parkersburg Ambulance Service		<b>Cerro Gordo County</b>
2120600	Shell Rock Ambulance Service	2170400	Clear Lake Fire Department
		2170200	Mason City FD EMS
		2170300	Mercy Care Ambulance
	<b>Calhoun County</b>		<b>Cherokee County</b>
2130800	Farnhamville EMS	2180600	Marcus Fire Dept Ambulance
2130300	Lake City Ambulance Dept	2180500	Cherokee RMC PreHospital Care
2130400	Lohrville Ambulance Service		
2130500	Manson Ambulance Service		<b>Chickasaw County</b>
2130600	Pomeroy Fire and Ambulance	2190400	Chickasaw Ambulance AV
2130700	Rockwell City Ambulance	2190500	Chickasaw Ambulance NH
		2190200	Chickasaw Ambulance Fburg
	<b>Carroll County</b>	2190300	Chickasaw Ambulance Nashua
2140100	Carroll Co Ambulance Service		
2140400	Carroll Co. Ambulance		<b>Clarke County</b>
2140200	Carroll Co Ambulance (Coon Papids Unit)	2200100	Clarke Co Ambulance Service
2140300	Carroll Co Ambulance (Breda Unit)		
2140500	Templeton First Response Unit		<b>Clay County</b>
		2210400	Everly Fire and Rescue
	<b>Cass County</b>	2210200	Peterson CRU
2150100	Anita Volunteer Fire & Rescue	2210100	Spencer Hospital Ambulance
2150700	Atlantic Medivac Amb Serv		
2150200	Cumberland Vol Fire Dept		<b>Clayton County</b>
2150300	Griswold Fire & Rescue	2220100	Central Ambulance Service
2150400	Massena Fire & Rescue	2220200	Guttenberg Ambulance Service
		2220300	MarMac Emergency Squad
	<b>Cedar County</b>	2221000	MFL Ambulance Service Inc
2160500	Bennett Ambulance Service	2220500	Strawberry Point Ambulance



<b>Agency No.</b>	<b>Agency Name</b>	<b>Agency No.</b>	<b>Agency Name</b>
<b>Fayette County</b>		2380300	Reinbeck Fire & Rescue Dept
2330800	Area Ambulance Elgin	2380400	Wellsburg FD Ambulance
2330700	Area Ambulance Clermont	<b>Guthrie County</b>	
2330900	Arlington Area Ambulance	2390100	Bagley Community Ambulance
2330200	Fayette Ambulance Service	2390700	Bayard Ambulance Service
2330400	Northeast Ia.Medical Tran.Inc	2390300	Guthrie Center Fire & Rescue
2330300	Mercy Oelwein Ambulance	2390800	Menlo Fire and Rescue
<b>Floyd County</b>		2390400	Panora Rescue Squad
2340200	American Medical Response(AMR)	2390500	Stuart Rescue Unit
2340300	Nora Springs Vol Ambulance	<b>Hamilton County</b>	
<b>Franklin County</b>		2406200	Ellsworth First Responders
2350300	Franklin General Hospital Amb.	2400400	Hamilton Hospital Amb. Service
<b>Fremont County</b>		2400100	Jewell Fire & Rescue
2360700	Farragut Fire & Rescue	2400200	Kamrar Fire & Rescue
2360100	Hamburg Vol Fire Dept Rescue	2400500	Performance EMS
2360600	Percival Fire & Rescue	2400300	Stratford Rescue Unit
2360800	Randolph Rescue	2400600	Williams Rescue and Ambulance
2360200	Riverton Fire & Rescue	<b>Hancock County</b>	
2360300	Sidney Fire and Rescue	2410400	Garner Vol Ambulance Service
2360400	Tabor Vol Ambulance	2410500	West Hancock Ambulance Svc
2360500	Thurman Rescue	<b>Hardin County</b>	
<b>Green County</b>		2420100	Ackley Vol Ambulance Service
2370300	Churdan Fire/Rescue	2420300	American Medical Response
2370200	Grand Junction Rescue Unit	2420200	Eldora Emergency Med Service
2370100	Greene County EMS Inc	2420700	Hubbard Ambulance Service
2370500	Scranton Fire Rescue Unit	2420600	Radcliffe Ambulance Service
<b>Grundy County</b>		2420500	Union Emergency Service
2380600	City of Grundy Center Amb	<b>Harrison County</b>	
2380100	Dike Vol Fire and Ambulance	2430100	Dunlap Fire & Rescue
		2430200	Logan Fire Rescue Association

<b>Agency No.</b>	<b>Agency Name</b>	<b>Agency No.</b>	<b>Agency Name</b>
2430300	Missouri Valley Fire & Rescue		<b>Jasper County</b>
2430400	Mondamin Fire & Rescue Inc	2500100	Baxter Rescue Unit
2430500	Persia Fire & Rescue	2500200	Colfax Fire Department
2430700	Woodbine Rescue	2500900	Iowa Speedway EMS
	<b>Henry County</b>	2500300	Kellogg Fire & Ambulance Dept
2440400	HCHC - EMS	2500800	Monroe Fire Department
	<b>Howard County</b>	2500400	Newton Fire Department
2450300	Reg.Health Services/Howard Co.	2500500	Prairie City Ambulance
	<b>Humboldt County</b>	2500600	Reasnor Fire & Ambulance
2460100	Gilmore City Ambulance	2500700	Sully Rural Fire & Ambulance
2460200	Humboldt Ambulance Service		<b>Jefferson County</b>
2460300	Renwick Ambulance Service	2510100	Jefferson County Ambulance
	<b>Ida County</b>		<b>Johnson County</b>
2470100	Battle Creek Comm Amb Serv	8520100	Air & Mobile Critical Care
2470300	Ida Grove Community Ambulance Service	2520300	Johnson County Ambulance
2470200	Holstein Fire Department	2520301	Johnson County Ambulance Service - Coralville
	<b>Iowa County</b>	2520400	SE Iowa Ambulance Service Inc
2480400	Iowa Co Ambulance-Williamsburg		<b>Jones County</b>
2480500	Iowa County Ambulance Service	2530100	Anamosa Area Ambulance Svc
	<b>Jackson County</b>	2530400	Midland Community Ambulance
2490100	Bellevue Ambulance Service	2530200	Monticello Ambulance Service
2490700	Community Ambulance Miles	2536000	Morley First Responders
2490600	Community Ambulance Preston	2530500	Olin Ambulance Service
2490500	Jackson Co Ambulance Service	2530300	Oxford Junction Fire Dept
2490400	Sabula Ambulance Service		<b>Keokuk County</b>
9496400	Springbrook Fire and EMS	2540500	Keokuk County Ambulance Svc
			<b>Kossuth County</b>
		2550100	Algona Ambulance Service
		2550800	Bancroft Ambulance Service

<b>Agency No.</b>	<b>Agency Name</b>	<b>Agency No.</b>	<b>Agency Name</b>
2551000	Lakota Ambulance Service	2600300	Inwood Rescue
2550600	Sentral Area Ambulance	2600200	Little Rock EMS
2550400	Swea City Fire Dept Ambulance	2600100	Lyon County Ambulance
2550500	Titonka Ambulance Service		
2550900	Whittemore Ambulance Service		
	<b>Lee County</b>		<b>Madison County</b>
8560902	Air Evac Lifeteam 59	2610200	Madison County Ambulance
2560300	Lee Co EMS Ambulance - Keokuk		<b>Mahaska County</b>
2560200	Lee Co EMS Ambulance-Ft Madison	2620500	Fremont Ambulance Unit
2560100	Lee County EMS Ambulance	2620100	Mahaska Hospital Ambulance
	<b>Linn County</b>	2620200	New Sharon Vol Fire Department
2570200	Area Ambulance Service		<b>Marion County</b>
2570600	Benton Linn Ambulance Service	2636200	Bussey Vol Fire Department
2570300	Center Point Ambulance Service	2636100	Clay Township Fire Rescue
8571040	Lifeguard	2630600	Columbia Fire and Rescue
2570700	Lisbon Mt Vernon Ambulance	2630800	Knoxville Fire and Rescue
2578100	Marion Fire Department	2630500	Knoxville Raceway Ambulance
2570400	Northeast Linn Ambulance Svc	2630400	Melcher Dallas Fire & Rescue
2571030	Southeast Iowa Ambulance Service Inc.	2630900	Pella Community Ambulance
	<b>Louisa County</b>	2630700	Pleasantville EMS
2580100	Louisa Co Responders-Amb		<b>Marshall County</b>
2580400	Louisa County Responders-Letts	2640100	Marshalltown Paramedic Service
2580200	Morning Sun Comm Ambulance	2646000	State Center First Responder
2580300	Wapello Community Ambulance		<b>Mills County</b>
	<b>Lucas County</b>	2650800	Emerson Rescue
2590100	Lucas County Health Center Amb	2650700	Glenwood Vol Fire Dept
	<b>Lyon County</b>	2650200	Malvern Volunteer Rescue Inc
		2650400	Pacific Jct Vol Ambulance
		2650900	Rolling Thunder Rescue
		2650300	Silver City Ambulance Service

<b>Agency No.</b>	<b>Agency Name</b>	<b>Agency No.</b>	<b>Agency Name</b>
<b>Mitchell County</b>		2726100	Ashton Comm Emergency Serv
2660100	Mitchell Co Ambulance Service	2720500	OCAS/May City
2660300	Riceville Amb Service Inc	2720300	OCAS/Melvin Division
<b>Monona County</b>		2720400	OCAS/Ocheyedan Division
2670200	Burgess Hospital Ambulance	2720200	OCAS/Sibley Division
2670600	Mapleton Ambulance Service	<b>Page County</b>	
2670400	Moorhead Rescue	2730600	Braddyville Rescue
2670700	Ute Ambulance Service	2730900	Clarinda Regional Health Center
2670800	Whiting Vol Fire	2730200	Coin Fire & Rescue
<b>Monroe County</b>		2730300	College Springs Vol Fire Dept
2680100	Monroe Co Ambulance	2731000	Essex Fire and Rescue Dept
<b>Montgomery County</b>		2730800	Shenandoah Ambulance Service
2690600	Elliott First Response Team	<b>Palo Alto County</b>	
2690200	Red Oak Fire Department	2740300	PACA/Graettinger
2690400	Stanton Fire & Rescue	2740400	PACA/Ruthven
2690500	Villisca Ambulance Service	2740200	PACA/West Bend
<b>Muscatine County</b>		2740100	PACH Ambulance
2700200	Muscatine Fire Department	<b>Plymouth County</b>	
2700700	West Liberty Vol Fire Dept	2750200	Hinton Ambulance
<b>O'Brien County</b>		2750300	Kingsley Ambulance Service
2710900	Archer Ambulance Service	2750900	LeMars Ambulance Service
2710200	Hartley Ambulance (HEART)	2750400	LeMars Fire Rescue
2710300	Paullina Ambulance Service	2751000	Merrill Ambulance Service
2710400	Primghar Ambulance	2750700	Oyens Volunteer Fire Rescue
2710500	Sanborn Ambulance Service	2750800	Remsen Ambulance Service
2710700	Sheldon Comm Ambulance Team	2750100	Siouxland Paramedics/Akron
2710600	Sutherland Fire/Rescue/Amb	<b>Pocahontas County</b>	
<b>Osceola County</b>		2760100	Fonda Ambulance Service
		2761000	Laurens Ambulance Service
		2760200	Pocahontas Ambulance Service
		2760300	Rolfe Area Ambulance

<b>Agency No.</b>	<b>Agency Name</b>	<b>Agency No.</b>	<b>Agency Name</b>
<b>Polk County</b>		2780500	Neola Vol Fire Dept
2770100	Altoona Fire Department	2780600	Oakland Vol Fire & Rescue
2770900	American Ambulance	2780700	Treynor Ambulance Service
2770200	Ankeny Fire Department	2780900	Underwood Rescue
2771800	Bondurant Emergency Services	2780800	Walnut Fire Department
2770300	Clive Fire Department	<b>Poweshiek County</b>	
2771400	Des Moines Fire Department #1	2790600	East Poweshiek Ambulance
2772300	Fraser Medical Services	2790700	Midwest Ambulance Serv of Iowa
8770400	Fraser Medical	2790300	Montezuma Fire Department
2771500	Grimes Fire & Rescue Dept	<b>Ringgold County</b>	
2770800	Johnston Fire & Rescue	2800300	Ringgold County Ambulance
8770300	Life Flight	<b>Sac County</b>	
2772100	LIFeline Ambulance Service Inc	2810500	Sac County Amb/Lake View
2773200	Mercy Medical Center-DSM	2810600	Sac County Ambulance/Odebolt
8770200	Mercy One	2810300	Sac County Ambulance/Sac City
2772000	Midwest Amb Service of Ia Inc	2810400	Sac County Ambulance/Schaller
2772700	Mitchellville Fire Department	<b>Scott County</b>	
2772600	Northern Warren Fire Dept	2820800	Buffalo Volunteer Ambulance
2770700	Pleasant Hill Fire Dept	2821000	MEDIC
2771000	Polk City Vol Fire & Rescue	<b>Shelby County</b>	
2771100	Runnells Fire Department	2831000	Defiance Fire & Rescue
2771600	Saylor Township Fire Dept	2830600	Earling Fire and Rescue
2771200	Urbandale Fire Department	2830900	Elk Horn Fire and Rescue
2771300	West Des Moines EMS	2830400	Irwin Volunteer Rescue Squad
2770600	Windsor Heights Fire Dept	2830700	Medivac Ambulance Rescue Corp
<b>Pottawattamie County</b>		2830800	Shelby Fire and Rescue
2780100	Avoca Vol Rescue & Fire	<b>Sioux County</b>	
2781000	Carter Lake Fire & Rescue		
2780200	Council Bluffs Fire Dept		
2781200	Crescent Rescue		
2781300	Lewis Township Vol Fire Dept		
2780300	Macedonia Vol Fire Department		
2780400	Minden Vol Fire & Rescue		

<b>Agency No.</b>	<b>Agency Name</b>	<b>Agency No.</b>	<b>Agency Name</b>
2841000	Alton Ambulance		<b>Van Buren County</b>
2840900	Boyden Ambulance	2890900	Farmington EMS
2840800	Granville Fire & Rescue	2891000	Van Buren County Ambulance
2840200	Hawarden Ambulance Assn		<b>Wapello County</b>
2840600	Hospers Ambulance Service	8900901	Air Evac Lifeteam 57
2840300	Hull Ambulance and Rescue	2900900	Blakesburg First Responders
2840700	Ireton Rescue Squad	2900700	Eddyville Volunteer Fire Dept
2840500	Orange City Comm Amb Service	2900100	Eldon Fire & Rescue Inc.
2840100	Rock Valley Ambulance Assoc.	2900800	ORMICS
2840400	Sioux Center Ambulance		<b>Warren County</b>
	<b>Story County</b>	2910100	Carlisle Fire Rescue
2856500	Colo Fire and Rescue	2911100	Hartford Vol Fire & Rescue
2850100	Mobile Intensive Care Service	2910700	Indianola Fire Department
2850300	Story City Ambulance Service	2910500	Lacona Fire Rescue
2850200	Story County Medical Center	2910800	Martensdale Fire Rescue
	<b>Tama County</b>	2910200	Milo Fire Rescue
2860100	Dysart Ambulance Service	2910300	Norwalk Fire Department
2860200	Elberon Volunteer Fire Rescue	2910600	Virginia Twp Fire Rescue
2860300	Garwin Ambulance Service		<b>Washington County</b>
2860400	Gladbrook Lincoln Ambulance	2920600	Care Ambulance
2860500	Tama Emergency Services	2920100	Washington Co Ambulance
2860600	Toledo Emergency Service	2920500	Wellman Volunteer Ambulance
2860700	Traer Ambulance Service		<b>Wayne County</b>
	<b>Taylor County</b>	2930200	Allerton First Responders
2870100	Bedford Ambulance Service	2930100	Wayne County Ambulance Svc
2870200	Blockton Ambulance Service		<b>Webster County</b>
2870600	Lenox Ambulance Service	2940500	Clare Rescue
2870400	New Market Vol Fire Dept	2940300	Dayton Rescue Squad Inc
	<b>Union County</b>	2940400	SW Webster Ambulance Service
2880200	Greater Comm Hosp Ambulance	2940100	Trinity Regional Amb Service

<b>Agency No.</b>	<b>Agency Name</b>	<b>Agency No.</b>	<b>Agency Name</b>
2940200	Vincent Vol Ambulance Service	2970700	Pierson Ambulance
		2970800	Salix Fire and Rescue
	<b>Winnebago County</b>	2972300	Sergeant Bluff Fire & Rescue
2950100	Buffalo Ct Vol Amb Service	2970500	Siouxland Paramedics Inc
2950200	Forest City Ambulance Service	2971200	Sloan Fire & Rescue
2950400	Lake Mills Ambulance Service		
2950300	Thompson Ambulance Service		<b>Wright County</b>
2950500	Winnebago Industries Amb	2990100	Belmond Vol Ambulance Service
		2990200	Clarion Ambulance Service
	<b>Winneshiek County</b>	2990400	Dows Ambulance Service
2966200	Frankville FD First Responders	2990300	Eagle Grove Department of EMS
2960200	Ossian Ambulance Service		
2960100	Winneshiek Co Paramedic Services		<b>Other</b>
		8000900	Air Evac Lifeteam 5
	<b>Woodbury County</b>	8001900	Air Evac Lifeteam 38
2970100	Anthon Rescue Squad	2001200	American Ambulance Service
2971700	Bronson Community Ambulance	8001600	Heartland AirMed
2970300	Correctionville Fire & Rescue	2001500	Interstate EMS of PDC Inc
2970400	Cushing Fire Department	8000800	Mercy Air Life North Iowa
2971800	Danbury Community Ambulance	2001300	Omaha Ambulance Service
2972400	Lawton Ambulance	8001700	Quad City Helicopter EMS
8970500	Mercy Air Care	2001100	Rural /Metro Ambulance-Omaha
2970600	Moville Ambulance Rescue Sqd	2001000	Trinity Ambulance Service
2972100	Oto Community Ambulance Serv		

## Appendix B Health Facility List

ID	Name
	<b>Hospitals</b>
9780105	Alegent Health-Mercy Hospital
9070034	Allen Memorial Hospital
9320014	Avera Holy Family Hospital
9080100	Boone County Hospital
9770032	Broadlawns Medical Center
9110166	Buena Vista Regional Medical Center
9670082	Burgess Health Center - Sloan
9150145	Cass County Memorial Hospital
9090086	Community Memorial Hospital
9070137	Covenant Medical Center
9240173	Crawford County Memorial Hospital
9250157	Dallas County Hospital
9420156	Ellsworth Municipal Hospital
9750004	Floyd Valley Hospital
9560087	Fort Madison Community Hospital
9820011	Genesis Medical Center
9650152	Glenwood Resource Center
9290147	Great River Medical Center
9880053	Greater Community Hospital

ID	Name
9790016	Grinnell Regional Medical Center
9400120	Hamilton County Public Hospital
9440047	Henry County Health Center
9770078	Iowa Lutheran Hospital
9520129	Iowa Medical & Classification Center
9770079	Iowa Methodist Medical Center
9510063	Jefferson County Hospital
9780039	Jennie Edmundson Memorial Hospital
9300028	Lakes Regional Healthcare
9810135	Loring Hospital
9620092	Mahaska County Hospital
9640007	Marshalltown Medical & Surgical Center
9850040	Mary Greeley Medical Center
9180121	Mental Health Inst - Cherokee
9440104	Mental Health Inst - Mount Pleasant
9730132	Mental Health Inst - Clarinda
9100068	Mental Health Inst - Independence
9520074	Mercy Hospital – IA City
9570036	Mercy Medical Center - Cedar Rapids

ID	Name
9040050	Mercy Medical Center-Centerville
9230056	Mercy Medical Center-Clinton
9770158	Mercy Medical Center-Des Moines
9310003	Mercy Medical Center-Dubuque
9311003	Mercy Medical Center - Dyersville
9770033	Mercy Medical Center-Mercy Capitol
9170023	Mercy Medical Center-North Iowa
9970112	Mercy Medical Center-Sioux City
9690075	Montgomery County Memorial Hospital
9710093	Northwest Iowa Health Center
9840071	Orange City Municipal Hospital
9900055	Ottumwa Regional Health Center
9740045	Palo Alto County Hospital
9630165	Pella Regional Health Center
9800167	Ringgold County Hospital
9070059	Sartori Memorial Hospital
9830103	Shelby County Myrtue Memorial Hospital
9730065	Shenandoah Medical Center
9180094	Sioux Valley Memorial Hospital
9500041	Skiff Medical Center
9210037	Spencer Municipal Hospital

ID	Name
9140090	St Anthony Regional Hospital
9570066	St Luke's Methodist Hospital
9970180	St Luke's Regional Medical Center
9310020	The Finley Hospital
9820042	Trinity Medical Center North
9940001	Trinity Regional Medical Center
9700005	Unity Health System
9520017	University Of Iowa Hospitals & Clinics
9090098	Waverly Municipal Hospital
9930027	Wayne County Hospital
9960127	Winneshiek County Memorial Hospital
9080069	Woodward Resource Center
	<b>Rural Health Clinics</b>
9013888	Adair Medical Center
9753830	Akron Family Practice Clinic
9873479	Alegent Health-Bedford Clinic
9433476	Alegent Health-Dunlap Clinic
9873478	Alegent Health-Lenox Clinic
9433431	Alegent Health-Logan Clinic
9433433	Alegent Health-Missouri Valley Clinic
9023480	Alegent Health-Rosary Medical Clinic
9433477	Alegent Health-Woodbine Clinic

<b>ID</b>	<b>Name</b>
9128905	Allison Family Practice
9333438	Arlington Clinic
9053853	Audubon Medical Clinic
9783863	Avoca Physicians Clinic
9893997	Birmingham Medical Clinic
9893451	Bonaparte Rural Health Center
9973483	Burgess Health Center - Onawa
9893996	Cantril Medical Clinic
9943475	Community Clinic
9383421	Conrad Family Clinic
9978934	Correctionville Mercy Medical Clinic
9453493	Cresco Medical Clinic
9053869	Cunningham Family Health Care Center
9253878	Dallas Center Medical Associates
9868922	Deer Creek Family Care
9098907	Denver Family Practice
9893998	Douds Medical Clinic
9123979	Dumont Clinic
9433470	Dunlap Family Medicine Clinic
9613486	Earlham Medical Clinic
9288936	Edgewood Clinic
9318924	Family Health Ctr - Cascade
9693464	Family Health Ctr - Villisca

<b>ID</b>	<b>Name</b>
9228942	Family Medical Asso. - Garnavillo
9288911	Family Medicine Asso. - Edgewood
9228902	Family Medicine Asso. - Guttenberg
9673831	Family Medicine Cln - Onawa
9743482	Family Practice Cln - Emmetsburg
9743472	Family Practice Cln - Graettinger
9743417	Family Practice Cln - West Bend
9893452	Farmington Medical Clinic
9993987	Franklin Medical Ctr - Dows
9353420	Franklin Medical Ctr - Hampton
9333881	Gundersen Clinic - West Union
9333891	Gundersen Clinic - Elgin
9333818	Gundersen Clinic - Fayette
9873456	Hardin Medical Clinic
9713492	Hartley Mercy Medical Center
9848933	Hawarden Mercy Medical Clinic
9613410	Health Trust Physicians Clinic
9253857	Heartland Family Health Associates
9473856	Holstein Family Practice Associates
9283884	Hopkinton Family Medical Center
9423825	Hubbard Medical Clinic

ID	Name
9338904	Integra Health - Oelwein
9128903	Integra Health - Parkersburg
9163898	Iowa Health Physicians - Clarence
9533894	Iowa Health Physicians - Anamosa
9168900	Iowa Health Physicians - Tipton
9168910	Iowa Health Physicians - Mechanicsville
9063896	Iowa Health Physicians - Vinton
9068908	Iowa Health Physicians - Shellsburg
9068901	Iowa Health Physicians - Keystone
9893453	Keosauqua Rural Health Center
9543450	Keota Community Clinic
9833840	Kimballton Medical Clinic
9753846	Kingsley Medical Clinic
9553437	Kossuth Family Health Ctr - Algona
9553976	Kossuth Family Health Ctr - Bancroft
9308909	Lake Park Community Health Care
9033892	Lansing Clinic
9353463	Latimer Clinic
9873469	Lenox Medical Clinic
9453494	Lime Springs Medical Clinic
9933435	Lineville Medical Clinic

ID	Name
9163841	Lowden Family Medical Clinic
9288938	Manchester Family Associates Pc West
9283885	Manchester Family Med Asso - Manchester
9288940	Manchester Family Med Asso - Colesburg
9678935	Maple Valley Mercy Medical Clinic
9363834	Medical Clinic - Hamburg
9363836	Medical Clinic - Tabor
9363833	Medical Clinic - Sidney
9958948	Mercy Family Clinc
9713462	Mill Creek Family Practice
9033882	Miller-Gunderson Clinic
9663467	Mitchell Cty Reg Health Ctr - Stacyville
9663445	Mitchell Cty Reg Health Ctr - St Ansgar
9663454	Mitchell Cty Reg Health Ctr - Osage
9503449	Monroe Family Health Center
9583850	Morning Sun Medical Clinic
9973890	Moville Area Medical Clinic
9393481	Panora Medical Clinic
9713488	Paullina Mercy Medical Clinic
9603843	Pioneer Medical Center
9713490	Primghar Mercy Medical Clinic
9138930	Rockwell City Clinic

ID	Name
9713875	Sanborn Medical Clinic
9788914	Shelby Medical Clinic
9713859	Sheldon Family Practice Associates
9183487	Sioux Valley Medical Asso - Cherokee
9473441	Sioux Valley Medical Asso - Holstein
9893995	Stockport Medical Clinic
9223862	Strawberry Point Medical Center
9503455	Sully Family Health Center
9093879	Sumner Medical Clinic
9713489	Sutherland Mercy Medical Clinic
9863439	Tama Medical Center
9768925	Trimark Physicians Group - Pocahontas
9468917	Trimark Physicians Group - Humboldt
9138947	Trimark Physicians Group - Manson
9768944	Trimark Physicians Group - Fonda
9768926	Trimark Physicians Group - Laurens
9818918	Trimark Physicians Group - Sac City
9998916	Trimark Physicians Group - Eagle Grove
9818919	Trimark Physicians Group - Lake View
9063485	Urbana Family Medical Clinic
9063468	Van Horne Family Medical Clinic

ID	Name
9063461	Vinton Family Medical Clinic
9813400	Wall Lake Medical Clinic
9583849	Wapello Medical Clinic
9038913	Waukon Clinic
9853460	Zearing Medical Clinic
	<b>Ambulatory Surgical Center</b>
9231011	Gateway Surgery Center
9771000	Healthsouth Surgery Center Of Des Moines
9771006	Iowa Endoscopy Center
9211004	Iowa Eye Institute
9771002	Mercy Terrace Hill Surgery Center
9821007	Mississippi Valley Surgery Center
9771013	Orthopaedic Outpatient Surgery Center Lc
9571016	Outpatient Surgery Center Of Cedar Rapid
9231012	Quality Surgicenter
9821001	Spring Park Surgery Center
9771015	The Iowa Clinic Endoscopy Center
9311010	Tri State Surgery Center
9771009	Westown Ambulatory Center
	<b>Nursing Facility</b>
9960338	Aase Haugen Home
9390706	Adair Community Health Center

<b>ID</b>	<b>Name</b>
9250229	Adel Acres Care Center
9880525	Afton Care Center
9750085	Akron City Convalescent Care Center
9550144	Algona Good Samaritan Center
9550274	Algona Manor Care Center
9120141	Allison Health Care Center
9530253	Anamosa Care Center
9440495	Arbor Court
9150588	Atlantic Nursing & Rehab Center
9520921	Atrium Village
9780196	Avoca Nursing & Rehab Center
9500681	Baxter Health Care Center
9390003	Bayard Nursing & Rehab Center
9870328	Bedford Nursing & Rehab Center
9060579	Belle Plaine Nursing & Rehab Center
9990447	Belmond Health Care Center
9310307	Bethany Home
9780207	Bethany Lutheran Home
9850220	Bethany Manor
9820880	Bettendorf Health Care Center
9770885	Bishop Drumm Care Center
9810547	Black Hawk Life Care Center

<b>ID</b>	<b>Name</b>
9260208	Bloomfield Care Center
9750130	Brentwood Good Samaritan Center
9790412	Brooklyn Community Estates
9100101	Buchanan County Health Center
9110129	Buena Vista Manor Care Center
9290249	Burlington Care Center
9770022	C L C Altoona
9140044	C L C Carroll
9250039	C L C Granger
9370034	C L C Jefferson
9910532	C L C Norwalk
9770631	C L C Polk City
9770502	C L C University
9770368	Calvin Manor
9180063	Careage Hills
9500607	Careage Of Newton
9910796	Carlisle Care Center
9140024	Carroll Health Center
9970125	Casa De Paz Health Care Center
9070215	Cedar Falls Health Care Center
9070154	Cedar Falls Lutheran Home
9160886	Cedar Manor
9040578	Centerville Nursing & Rehab Center

ID	Name
9590114	Chariton Nursing & Rehab Center
9340392	Chautauqua Guest Home #2
9340164	Chautauqua Guest Home #3
9180592	Cherokee Villa Nursing & Rehab Center
9770916	Childserve Habilitation Center
9160149	Clarence Nursing Home
9800132	Clearview Home – Mt. Ayr
9870315	Clearview Home - Clearfield
9480217	Colonial Manor Of Amana
9150366	Colonial Manor Of Anita
9580135	Colonial Manor Of Columbus Junction
9450794	Colonial Manor Of Elma
9850252	Colonial Manor Of Zearing
9010182	Community Care Center
9710779	Community Memorial Health Center
9120205	Community Nursing Home
9410334	Concord Care Center
9020576	Corning Nursing & Rehab Center
9970340	Correctionville Nursing & Rehab Center
9930336	Corydon Nursing & Rehab Center
9570783	Cottage Grove Place-The Club
9180966	Country Side Estates

ID	Name
9070529	Country View
9720464	Country View Manor
9970370	Countryside Retirement Home
9450905	Cresco Care Center
9880066	Crest Haven Care Centre
9880332	Creston Nursing & Rehab Center
9490974	Crestridge Care Center
9570975	Crestview Acres
9400343	Crestview Manor
9160589	Crestview Nursing & Rehab Center
9290870	Danville Care Center
9820472	Davenport Good Samaritan Center
9820211	Davenport Lutheran Home
9240006	Denison Care Center
9090099	Denver Sunset Home
9560614	Donnellson Health Center
9310600	Dubuque Nursing & Rehab Center
9120888	Dumont Wellness Center
9430079	Dunlap Nursing & Rehab Center
9230059	Eagle Point Nursing & Rehab Center
9100283	East Towne Care Center
9080268	Eastern Star Masonic Home
9280322	Edgewood Convalescent

ID	Name
	Home
9420076	Eldora Nursing & Rehab Center
9070054	Elizabeth E Martin Health Center
9220240	Elkader Care Center
9830051	Elm Crest Retirement Community
9730860	Elm Heights Care Center
9670321	Elmwood Care Centre
9970471	Embassy Rehab & Care Center
9740026	Emmetsburg Care Center
9480239	English Valley Care Center
9310764	Ennoble Manor Care Center
9320123	Estherville Good Samaritan Center
9080243	Evangelical Free Church Home
9450329	Evans Memorial Home
9240324	Eventide Lutheran Home
9050106	Exira Care Center
9660081	Faith Lutheran Home
9820846	Fejervary Health Care Center
9600572	Fellowship Village
9770692	Fleur Heights Care Center
9760518	Fonda Nursing & Rehab Center
9010371	Fontanelle Good Sam Ctr

ID	Name
9950267	Forest City Good Sam Ctr
9940690	Fort Dodge Villa Care Center
9560195	Fort Madison Health Center
9770231	Fountain West Health Center
9350006	Franklin General Hospital
9940037	Friendship Haven
9050124	Friendship Home Association
9790312	Friendship Manor Care Centre
9070429	Friendship Village Retirement Center
9730056	Garden View Care Center
9770707	Genesis Senior Living Center
9600460	George Good Samaritan Center
9620767	Georgian Court Of Oskaloosa
9650355	Glen Haven Home
9040983	Golden Age Skilled Nursing & Rehab
9730781	Goldenrod Manor Care Center
9280358	Good Neighbor Home
9170219	Good Shepherd Health Center
9940083	Gowrie Care Center
9940127	Grandview Health Care Ctr - Dayton
9330350	Grandview Healthcare Ctr - Oelwein
9640686	Grandview Heights
9860817	Grandview Nursing L L C

<b>ID</b>	<b>Name</b>
9820293	Grandview Terrace
9220074	Great River Care Center
9850536	Green Hills Health Center
9010620	Greenfield Manor Inc
9940016	Greenleaf Health Care
9520101	Greenwood Manor
9630389	Griffin Nursing Center
9150033	Griswold Care Center Inc
9380377	Grundy Care Center
9220982	Guttenberg Care Center
9920323	Halcyon House
9570963	Hallmark Care Ctr - Mount Vernon
9970179	Hallmark Care Ctr - Sioux City
9350330	Hampton Health Care Center
9750380	Happy Siesta Health Care Center
9070357	Harmony House Health Care Center
9180689	Heartland Care Center
9770236	Heather Manor
9420925	Heritage Care Ctr - Iowa Falls
9170260	Heritage Care Ctr - Mason City
9840843	Heritage House - Orange City
9150075	Heritage House - Atlantic
9310463	Heritage Manor - Dubuque

<b>ID</b>	<b>Name</b>
9500884	Heritage Manor - Newton
9570110	Heritage Nsg & Rehab Ctr - Cedar Rapids
9550822	Heritage Nursing Home - Bancroft
9570660	Hiawatha Care Center
9840877	Hillcrest Health Care Services
9090362	Hillcrest Home
9300353	Hilltop Care Center
9470420	Holstein Good Samaritan Center
9970145	Holy Spirit Retirement Home
9760020	Hovenden Memorial Good Samaritan Ctr
9420999	Hubbard Care Center
9460216	Humboldt Care Center North
9460116	Humboldt Care Center South
9970341	Indian Hills Nursing & Rehab Center
9780151	Indian Hills Nursing Center
9910035	Indianola Good Samaritan Center
9520052	Iowa City Rehab & Health Care Ctr
9770384	Iowa Jewish Senior Life Center
9820296	Iowa Masonic Health Facilities
9170134	Iowa Odd Fellows & Orphans Home
9640108	Iowa Veterans Home
9820128	Kahl Home For Aged & Infirm

ID	Name
9410433	Kanawha Community Home
9770275	Karen Acres Healthcare Center
9560133	Keokuk Convalescent Center
9060263	Keystone Nursing Center
9750184	Kingsley Nursing & Rehab Center
9950927	Lake Mills Care Center
9300598	Lake Park Care Center
9740436	Lakeside Lutheran Home
9270594	Lamoni Nursing & Rehab Center
9520096	Lantern Park Nursing & Rehab Center
9070581	Laporte City Nursing & Rehab Center
9870126	Lenox Care Center
9120718	Liebe Care Center
9570847	Linn Manor Care Center
9830346	Little Flower Haven
9570245	Living Center East
9570244	Living Center West
9520118	Lone Tree Health Care Center Inc
9210065	Longhouse-Northshire Ltd
9430093	Longview Home
9310452	Luther Manor
9700428	Lutheran Home Society
9980326	Lutheran Retirement Home

ID	Name
9600115	Lyon Manor Nursing & Rehab Center
9960169	M A Barthell Home
9080797	Madrid Home For The Aging
9240486	Manilla Manor
9980352	Manly Nursing & Rehab Center
9540119	Manor House Care Center
9650563	Manor Of Malvern
9310225	Manorcare Health Services - Dubuque
9570374	Manorcare Health Services - Cedar Rapids
9820400	Manorcare Health Services - Davenport
9070361	Manorcare Health Services - Waterloo
9130311	Manson Good Samaritan Center
9330221	Maple Crest Manor
9670437	Maple Heights Nursing Home
9540351	Maplewood Manor
9490298	Maquoketa Care Center
9940496	Marian Home
9790277	Mayflower Home
9820624	Meadow Lawn Health Care
9160591	Mechanicsville Nursing & Rehab Center
9570440	Meth Wick Health Center
9110001	Methodist Manor Retirement Community

ID	Name
9780508	Midlands Living Center L L P
9300685	Milford Nursing Center
9770477	Mill Pond Retirement Community
9490158	Mill Valley Care Center
9770919	Mitchell Village Care Center
9680490	Monroe Care Center
9790180	Montezuma Nursing & Rehab Center
9530729	Monticello Nursing & Rehab Center
9560835	Montrose Health Center Inc
9580349	Morning Sun Care Center
9970122	Morningside Nursing & Rehabilitation Ctr
9470912	Morningside Rehab & Care Center
9800564	Mount Ayr Health Care Center
9700281	Muscatine Care Center
9500635	Nelson Manor
9510212	Nelson Nursing Home
9190569	New Hampton Care Center
9190741	New Hampton Nursing & Rehab Center
9440187	New London Nursing & Rehab Center
9620117	New Sharon Nursing & Rehab Center
9110005	Newell Good Samaritan Center
9340755	Nora Springs Care Center

ID	Name
9570720	Northbrook Manor Care Center
9780853	Northcrest Care & Rehabilitation
9850462	Northcrest Health Care Center
9030421	Northgate Care Center
9780147	Oakland Manor Nursing Home
9520402	Oaknoll Retirement Residence
9380345	Oakview Home
9170382	Oakwood Care Center
9680150	Oakwood Nursing & Rehab Center
9810297	Odebolt Nursing & Rehab Center
9330363	Oelwein Health Care Center
9080534	Ogden Manor
9770700	On With Life - Ankeny
9650726	On With Life At Glenwood
9960443	Oneota Riverview Care Facility
9660171	Osage Rehab & Health Care Center
9200593	Osceola Nursing & Rehab Center
9960404	Ossian Senior Hospice
9990279	Ottumwa Good Samaritan Center
9990432	Ottumwa Manor
9390067	Panora Nursing & Rehab Center
9500773	Park Centre

ID	Name
9810140	Park View Care Center
9290250	Park View Care Center Of Burlington Llc
9770185	Parkridge Nursing & Rehab Center
9510388	Parkview Care Center
9440318	Parkview Home
9920820	Parkview Manor - Wellman
9380386	Parkview Manor - Reinbeck
9070582	Parkview Nursing & Rehab Center
9450478	Patty Elwood Center
9710356	Paullina Care Center
9250714	Perry Health Care Center
9250186	Perry Lutheran Home
9840120	Pleasant Acres Care Center
9630309	Pleasant Care Living Center
9440237	Pleasant Manor Care Center
9620049	Pleasant Park Estates
9670072	Pleasant View Care Center
9110376	Pleasant View Home - Albert City
9920280	Pleasantview Home - Kalona
9750234	Plymouth Manor Care Center
9760036	Pocahontas Manor Care Center
9130259	Pomeroy Care Center
9030098	Postville Good Samaritan Center

ID	Name
9290810	Prairie Ridge Care & Rehabilitation
9710410	Prairie View Home
9710178	Primghar Rehab & Care Center
9770308	Ramsey Home
9070583	Ravenwood Nursing & Rehab Center
9690391	Red Oak Good Samaritan Center
9690094	Red Oak Rehab & Care Center
9910845	Regency Care Center
9660261	Riceville Community Rest Home
9820407	Ridgecrest Village
9990335	Ridgewood Nursing & Rehab Center
9780641	Risen Son Christian Village
9560878	River Hills Village - Keokuk
9700813	Riverbend Nursing & Rehab Center
9850173	Riverside Manor
9770202	Riverview Care Center
9820046	Riverview Manor
9600731	Rock Rapids Health Centre
9170575	Rockwell Community Nursing Home
9760761	Rolfe Care Center
9850819	Rolling Green Village
9480183	Rose Haven Nursing Home

ID	Name
9430306	Rose Vista Home
9290945	Rosebush Gardens Health Center
9320446	Rosewood Manor
9990337	Rotary Ann Home
9250459	Rowley Memorial Masonic Home
9830061	Salem Lutheran Home
9340469	Salsbury Baptist Home
9420232	Scenic Manor
9770155	Scottish Rite Park Health Care Center
9930181	Seymour Care Center
9130137	Shady Oaks Care Center
9310255	Shady Rest Care Center
9350857	Sheffield Care Center
9120086	Shell Rock Healthcare Center
9720763	Sibley Nursing & Rehab Center
9360156	Sidney Health Center
9540814	Sigourney Care Center
9700230	Simpson Memorial Home
9110599	Sioux Care Center
9970721	Siouxland Nursing & Rehabilitation Cente
9520272	Solon Nursing Care Center
9400756	Southfield Wellness Community
9640136	Southridge Nursing & Rehab

ID	Name
	Center
9250199	Spurgeon Manor
9660369	St Ansgar Good Samaritan Center
9790736	St Francis Manor
9210409	St Luke Lutheran Nursing Home
9660408	Stacyville Community Nursing Home
9690828	Stanton Care Center
9640152	State Center Nursing & Rehab Center
9310824	Stonehill Care Center
9400069	Stratford Nursing & Rehab Center
9220344	Strawberry Point Lutheran Home
9860470	Sunny Hill Care Center
9130168	Sunny Knoll Care Centre
9770233	Sunny View Care Center
9310304	Sunnycrest Manor
9860976	Sunnycrest Nursing Center
9860226	Sunrise Hill Care Center
9970316	Sunrise Retirement Community
9440235	Sunrise Terrace Care Center
9180325	Sunset Knoll Inc
9710198	Sutherland Care Center
9360577	Tabor Manor Care Center

ID	Name
9770539	The Abbey
9750489	The Abbey Of Lemars
9850636	The Abington On Grand
9230192	The Alverno Health Care Facility
9390375	The New Homestead Care Center
9420418	The Presbyterian Village Of Ackley
9910708	The Village
9060733	The Vinton Lutheran Home
9140430	Thomas Rest Haven
9030754	Thornton Manor Care Center
9950348	Timely Mission Nursing Home
9550241	Titonka Care Center
9770825	Trinity Center At Luther Park
9090393	Tripoli Nursing Home
9810342	Twilight Acres
9990752	U S A Health Care Ctr - Clarion
9940900	U S A Health Care Ctr - Fort Dodge
9500899	U S A Health Care Ctr - Newton
9770053	U S A Health Care Ctr - Urbandale
9170364	U S A Healthcare - Mason City
9770799	Union Park Health Services
9920303	United Presbyterian Home

ID	Name
9420077	Valley View Nursing & Rehab Center
9770333	Valley View Village
9320167	Valley Vue Care Center
9890248	Van Buren Good Samaritan Center
9640803	Villa Del Sol
9690188	Villisca Good Samaritan Center
9990687	Vista Woods Care Center
9580372	Wapello Nursing & Rehab Center
9920146	Washington Care Center
9030276	Waukon Good Samaritan Center
9770287	Wesley Acres
9740851	West Bend Care Center
9610812	West Bridge Care & Rehabilitation
9560646	West Point Care Center - West Point
9570097	West Ridge Care Center - Cedar Rapids
9630121	West Ridge Nursing & Rehab Center
9330406	West Union Good Samaritan Center
9100331	West Village Care Center
9860029	Westbrook Acres
9430203	Westmont Care Center
9730816	Westridge Quality Care & Rehabilitation

ID	Name
9270214	Westview Acres Care Center
9410815	Westview Care Center
9910176	Westview Of Indianola Care Center
9970354	Westwood Nursing & Rehab Center
9230997	Wheatland Manor
9480573	Williamsburg Care Center
9470995	Willow Dale Wellness Center
9570604	Willow Gardens Care Center
9700165	Wilton Retirement Community
9070586	Windsor Nursing & Rehab Center
9570269	Winslow House Care Center
9610902	Winterset Care Center North
9610903	Winterset Care Center South
9090286	Woodland Terrace
9230032	Wyndcrest Nursing Home
	<b>Assisted Living Program</b>
9990133	Aase Haugen AI
9990094	Afton Oaks AI
9990019	Allen House
9990089	Amber Ridge
9990046	Amelia House
9990166	Apple Valley AI

ID	Name
9990072	Arbor Heights At University
9990065	Arbor Place
9990081	Arlin Falck AI
9990112	Arlington Place Of Grundy Center
9990157	Arlington Place Of Oelwein
9990137	Arlington Place Of Red Oak
9990143	Ashbrook Assisted Living
9990138	Avoca Lodge AI
9990007	Ballard Creek Community
9990102	Beehive Home AI - Sheldon
9990091	Beehive Home AI - Spencer
9990106	Beehive Home AI - Hawarden
9990024	Bickford Cottage - Ames
9990011	Bickford Cottage - Burlington
9990028	Bickford Cottage - Cedar Falls
9990010	Bickford Cottage - Clinton
9990054	Bickford Cottage - Davenport
9990008	Bickford Cottage - Ft Dodge
9990023	Bickford Cottage - Ia City
9990029	Bickford Cottage - Marion
9990012	Bickford Cottage - Marshalltown
9990009	Bickford Cottage - Muscatine
9990042	Bickford Cottage - Urbandale
9990043	Bickford Cottage - W Des

ID	Name
	Moines
9990006	Bickford Cottage I - Sioux City
9990063	Bickford Cottage li - Sioux City
9990044	Boulevard Place
9990016	Briarcliff Retirement Ctr
9990057	Calvin Community AI Services
9990119	Cardinal Grove
9990176	Cedars Of Madrid Homes
9990074	Char-Mac AI
9990124	Cherry Ridge
9990100	Clearview Estates AI
9990078	Clover Ridge
9990150	Community Memorial AI
9990151	Continental At St. Joseph's
9990120	Cornerstone AL
9990035	Cottage Grove Place
9990146	Country Haven Guest Homes, Ltd
9990017	Country House
9990128	Courtyard A.L.
9990177	Courtyard Terrace
9990125	Crown Pointe
9990108	Custom Care
9990175	Danbury Circle
9990033	Davenport Lutheran AI

ID	Name
9990099	Eagle Ridge AI
9990020	Eiler House
9990155	Ellen Kennedy Living Center
9990059	Elm Crest Retirement Comm
9990064	Elm Heights AI
9990095	Elm Springs AI Apts
9990169	Emerald Oaks
9990181	Emerson Point
9990154	Estabrook Lodge A. L.
9990135	Fieldcrest AL
9990062	Floyd House
9990131	Forest Plaza AI
9990172	Fountain View AI
9990076	Franken Manor
9990126	Franklin Prairie Apartments
9990052	Gabus Home
9990085	Garden View AI
9990165	Garner Farms Special Memory Care
9990113	Garnett Place
9990086	Glenwood Place
9990111	Hawthorne Inn At Windmill Pointe
9990014	Heartland Care Ctr AI
9990101	Heartwood Heights
9990056	Heritage Court

ID	Name
9990055	Heritage House
9990145	Hillcrest Court
9990038	Holy Spirit
9990015	Holy Spirit AL For Dementia
9990087	Homestead Acres
9990079	Jersey Ridge
9990092	Kensington
9990153	Kentucky Ridge Neighborhood Al
9990018	Keystone Senior Suites
9990152	Kingston Court
9990115	Kosgrove Estates
9990107	Lakeview Lodge
9990103	Lakeview Village
9990037	Landsmeer Ridge Retirement Comm
9990163	Legacy Gardens
9990116	Legacy Pointe
9990171	Lincolnway Villa Al
9990082	Lincolnwood AL
9990088	Linden Place Al
9990001	Longview Retirement Apts
9990034	Lutheran Home Apts
9990080	Madison Square Al
9990148	Maple Grove Senior Living
9990048	Maple Manor Village

ID	Name
9990136	Maple Ridge Al
9990002	Martina Place
9990045	Mason City Homestead
9990071	Mayflower AL
9990069	Meadows (The)
9990084	Meadows AL
9990159	Melrose Meadows Retirement Community
9990097	Mica Hill Estates
9990027	Mill Pond Al
9990123	Mulberry Place
9990182	Newton Village, Inc.
9990058	Northern Hills
9990105	Oak Estates
9990070	Oakland Heights
9990093	Oaknoll AL
9990139	Oakwood Place Al
9990132	Park Lane Village
9990021	Park Place Estates
9990110	Pennington Square
9990068	Perry Lutheran Home Al
9990061	Pioneer Place Al
9990149	Pleasant View Assisted Living
9990083	Port Charles Al
9990173	Prairie Creek Assisted Living

<b>ID</b>	<b>Name</b>
9990039	Prairie View Inn
9990142	Premier Estates - Onawa
9990047	Premier Estates - Rock Rapids
9990090	Promise House
9990013	Reed House
9990168	Reflections Assisted Living
9990130	Ridgeway Place
9990040	Riverview Terrace
9990156	Rose Vista Assisted Living
9990067	Rosebush Gardens
9990147	Ruthven Community Care Center
9990161	Scuylar Place Assisted Living
9990098	Senior Suites
9990160	Silver Pond Assisted Living
9990066	Silvercrest AI - Garner Farms
9990041	Silvercrest Ames AI
9990164	Silvercrest At The Woodlands
9990005	Sitler Ctr For Helpful Living
9990114	Skiff Med Center AI
9990141	Southfield Wellness Community AI
9990129	Spring Valley Senior AI
9990060	Summit Heights
9990170	Sunnybrook AL
9990030	Sunrise Villa

<b>ID</b>	<b>Name</b>
9990127	Sunset Park Place
9990031	Swan House
9990022	Sylvan Woods
9990109	Terrace Park Sr Living
9990162	Timberland Village
9990140	Valley Lodge AI
9990121	Valley View Manor AI
9990051	Villa Cottages
9990026	Village Ridge
9990174	Village Terrace AI
9990179	Vintage Park Apartments
9990167	Vriendschap Village AI
9990032	Waukon Living Ctr
9990096	WEL-LIFE At Alta
9990025	WEL-LIFE At Spirit Lake
9990117	Wesley Acres Memory Loss Center
9990075	Wesley Central AI
9990118	West Liberty AI Residences
9990036	Western Home AI
9990134	White Oak Estates
9990180	Willow Dale Wellness Village
9990004	Willow Pointe
9990122	Willows (The)
9990144	Windsor Place AI

<b>ID</b>	<b>Name</b>
4977083	Mercy -Des Moines Inpatient Psychiatric
	<b>Other</b>
9999504	Morgue/Funeral Home/Coroner
9999503	Other Acute Care Med Facility

<b>ID</b>	<b>Name</b>
9999505	Other Clinic/Doctors Office
9999506	Other EMS Entity
9999501	Other Long Term Care Facility
9999500	Police/Law Enforcement
9999502	Residence

## Appendix C

### Iowa City FIPS

FIPS ID	Name
	<b>Adair County</b>
00370	Adair
02440	Arbor Hill
04690	Barrett Superette (Rosserdale)
05995	Berea
08425	Bridgewater
90333	Bridgewater (Township of)
10360	Canby
11395	Casey
91248	Eureka (Township of)
27705	Fisk
28290	Fontanelle
91608	Grand River (Township of)
32790	Greenfield
91755	Greenfield (Township of)
91776	Grove (Township of)
91854	Harrison (Township of)
35625	Hebron
37380	Howe
92088	Jackson (Township of)

FIPS ID	Name
92199	Jefferson (Township of)
92397	Lee (Township of)
92514	Lincoln (Township of)
59565	Orient
93198	Orient (Township of)
93519	Prussia (Township of)
93570	Richland (Township of)
68880	Rosserdale
75090	Stanzel
75990	Stuart
94032	Summerset (Township of)
94035	Summit (Township of)
94161	Union (Township of)
94389	Walnut (Township of)
94443	Washington (Township of)
87600	Zion
	<b>Adams County</b>
08740	Brooks
10585	Carbon

<b>FIPS ID</b>	<b>Name</b>
10720	Carl
90471	Carl (Township of)
90780	Colony (Township of)
16500	Corning
21380	Dickierville
91020	Douglas (Township of)
91626	Grant (Township of)
39075	Iveyville
92193	Jasper (Township of)
44490	Lenox
92517	Lincoln (Township of)
45275	Lincoln Center
51125	Mercer
92916	Mercer (Township of)
54570	Mount Etna
55740	Nevinville
56865	Nodaway
93120	Nodaway (Township of)
64560	Prescott
93504	Prescott (Township of)
65290	Quincy
93531	Quincy (Township of)
75900	Stringtown
94164	Union (Township of)

<b>FIPS ID</b>	<b>Name</b>
94446	Washington (Township of)
85890	Williamson
	<b>Allamakee County</b>
90582	Center (Township of)
13260	Church
18120	Dalby
21945	Dorchester
24262	Effiay Mounds National Monument
24285	Egan
24400	Eldergrove
25185	Elon
91290	Fairview (Township of)
91383	Franklin (Township of)
91488	French Creek (Township of)
34275	Hanover
91824	Hanover (Township of)
34590	Harpers Ferry
38445	Ion
92049	Iowa (Township of)
92202	Jefferson (Township of)
92331	Lafayette (Township of)
43275	Lansing
92382	Lansing (Township of)

<b>FIPS ID</b>	<b>Name</b>
92655	Linton (Township of)
47145	Ludlow
92727	Ludlow (Township of)
47525	Lycurgus
47570	Lyndale
92799	Makee (Township of)
50410	Maud
55785	New Albin
93255	Paint Creek (Township of)
93468	Post (Township of)
64290	Postville
65145	Quandahl
68970	Rossville
73480	Sixteen
94089	Taylor (Township of)
94290	Union City (Township of)
94293	Union Prairie (Township of)
80940	Village Creek
81435	Volney
94596	Waterloo (Township of)
82470	Waterville
82740	Waukon
82785	Waukon Junction

<b>FIPS ID</b>	<b>Name</b>
	<b>Appanoose County</b>
90177	Bellair (Township of)
08245	Brazil
90435	Caldwell (Township of)
12315	Centerville
90640	Centerville
12360	Centerville (sta.)
90641	Centerville City (Township of)
90642	Chariton (Township of)
13395	Cincinnati
13710	Clarkdale
18480	Darbyville
19270	Dean
91023	Douglas (Township of)
26310	Exline
28335	Forbush
91386	Franklin (Township of)
29865	Garfield
35920	Hiattsville
37965	Iconium
92016	Independence (Township of)
39540	Jerome
92271	Johns (Township of)
92520	Lincoln (Township of)

<b>FIPS ID</b>	<b>Name</b>
46020	Livingston
48515	Maine
49980	Martinstown
53985	Moravia
54390	Moulton
55200	Mystic
57945	Numa
59645	Orleans
63345	Plano
93357	Pleasant (Township of)
65730	Rathbun
71445	Sedan
93822	Sharon (Township of)
75890	Streepyville
76395	Sunshine
94092	Taylor (Township of)
77700	Thirty
79410	Udell
94155	Udell (Township of)
94167	Union (Township of)
79680	Unionville
94329	Vermillion (Township of)
94392	Walnut (Township of)
82110	Walnut City

<b>FIPS ID</b>	<b>Name</b>
94449	Washington (Township of)
94638	Wells (Township of)
	<b>Audubon County</b>
03655	Audubon
90093	Audubon (Township of)
08200	Brayton
90453	Cameron (Township of)
91026	Douglas (Township of)
26265	Exira
91260	Exira (Township of)
27660	Fiscus
29830	Gardner
32565	Gray
91728	Greeley (Township of)
33915	Hamlin
91815	Hamlin (Township of)
40545	Kenfield
41295	Kimballton
43455	Larland
92418	Leroy (Township of)
92523	Lincoln (Township of)
92910	Melville (Township of)
56775	Nishna

<b>FIPS ID</b>	<b>Name</b>
93153	Oakfield (Township of)
68835	Ross
72020	Sharon
93825	Sharon (Township of)
94362	Viola (Township of)
81270	Viola Center
	<b>Benton County</b>
03475	Atkins
05590	Belle Plaine
90178	Belle Plaine
90179	Belle Plaine (Township of)
90201	Benton (Township of)
90237	Big Grove (Township of)
06805	Blairstown
90363	Bruce (Township of)
90465	Canton (Township of)
90522	Cedar (Township of)
13035	Cheney
91131	Eden (Township of)
91161	Eldorado (Township of)
91350	Florence (Township of)
91455	Fremont (Township of)
30000	Garrison

<b>FIPS ID</b>	<b>Name</b>
91857	Harrison (Township of)
91974	Homer (Township of)
92052	Iowa (Township of)
38910	Irving
92091	Jackson (Township of)
92289	Kane (Township of)
41115	Keystone
92421	Leroy (Township of)
47505	Luzerne
92964	Monroe (Township of)
54435	Mount Auburn
56055	Newhall
57720	Norway
93438	Polk (Township of)
72480	Shellsburg
93838	Shellsburg
93839	Shellsburg (Township of)
74290	Spencers Grove
93732	St. Clair (Township of)
94095	Taylor (Township of)
94170	Union (Township of)
79905	Urbana
80400	Van Horne
81210	Vinton

<b>FIPS ID</b>	<b>Name</b>
94360	Vinton
94361	Vinton (Township of)
81840	Walford
82515	Watkins
	<b>Black Hawk County</b>
00820	Aladdin
02890	Armour
90126	Barclay (Township of)
90198	Bennington (Township of)
05805	Benson
90234	Big Creek (Township of)
90246	Black Hawk (Township of)
08785	Brookside
09505	Burk
11575	Castle Hill
90525	Cedar (Township of)
11710	Cedar City
11755	Cedar Falls
90576	Cedar Falls (Township of)
11800	Cedar Falls Junction
21135	Dewar
22845	Dunkerton
91092	Eagle (Township of)

<b>FIPS ID</b>	<b>Name</b>
23205	Eagle Center
23880	East Waterloo
91128	East Waterloo (Township of)
24870	Elk Run Heights
25995	Evansdale
27570	Finchford
91374	Fox (Township of)
30675	Gilbertville
30720	Gilbur
31440	Glory
35975	Hicks
36435	Hilltop
37470	Hudson
39405	Janesville
39975	Jubilee
43365	La Porte City
92427	Lester (Township of)
92526	Lincoln (Township of)
52185	Millerdale
53130	Mona Junction
93039	Mount Vernon (Township of)
57180	North Cedar
59430	Orange
93186	Orange (Township of)

FIPS ID	Name
93477	Poyner (Township of)
65775	Raymar
65820	Raymond
93966	Spring Creek (Township of)
94173	Union (Township of)
81480	Voorhies
82290	Washburn
94452	Washington (Township of)
94597	Waterloo
82425	Waterloo
94598	Waterloo (Township of)
82440	Waterloo Municipal Airport
	<b>Boone County</b>
90057	Amaqua (Township of)
02215	Angus
05185	Beaver
90150	Beaver (Township of)
06040	Berkley
07480	Boone
07750	Boxholm
90489	Cass (Township of)
12405	Centerville
14815	Coal Valley

FIPS ID	Name
90756	Colfax (Township of)
90969	Des Moines (Township of)
91002	Dodge (Township of)
91029	Douglas (Township of)
23565	East Boone
25770	Ericson
28920	Fraser
91503	Garden (Township of)
91629	Grant (Township of)
91860	Harrison (Township of)
92094	Jackson (Township of)
39945	Jordan
46200	Logansport
47280	Luther
48135	Mackey
48450	Madrid
92832	Marcy (Township of)
52680	Mineral Ridge
53040	Moingona
55290	Napier
56730	Niles
58665	Ogden
93291	Peoples (Township of)
62850	Pilot Mound

<b>FIPS ID</b>	<b>Name</b>
93330	Pilot Mound (Township of)
66945	Ridgeport
72345	Sheldahl
94176	Union (Township of)
86745	Wolf
94782	Worth (Township of)
94797	Yell (Township of)
	<b>Bremer County</b>
03070	Artesian
04150	Babcock
08335	Bremer
09055	Buck Creek
90900	Dayton (Township of)
20035	Denver
91032	Douglas (Township of)
91389	Franklin (Township of)
29010	Frederika
91440	Frederika (Township of)
91458	Fremont (Township of)
37245	Horton
92097	Jackson (Township of)
39405	Janesville
92205	Jefferson (Township of)

<b>FIPS ID</b>	<b>Name</b>
41700	Klinger
41835	Knittel
92334	Lafayette (Township of)
92424	Le Roy (Township of)
92898	Maxfield (Township of)
55020	Murphy
63210	Plainfield
93441	Polk (Township of)
65910	Readlyn
74635	Spring Fountain
76260	Sumner
94045	Sumner
94046	Sumner (Township of)
94059	Sumner No. 2 (Township of)
78915	Tripoli
94425	Warren (Township of)
94455	Washington (Township of)
82875	Waverly
94607	Waverly
94608	Waverly (Township of)
82920	Waverly Junction
	<b>Buchanan County</b>
03835	Aurora

<b>FIPS ID</b>	<b>Name</b>
08155	Brandon
08990	Bryantsburg
90384	Buffalo (Township of)
90432	Byron (Township of)
90816	Cono (Township of)
21990	Doris
26355	Fairbank
91266	Fairbank (Township of)
91461	Fremont (Township of)
35580	Hazleton
91902	Hazleton (Township of)
91977	Homer (Township of)
38100	Independence
92208	Jefferson (Township of)
39585	Jesup
43005	Lamont
92439	Liberty (Township of)
45885	Littleton
92751	Madison (Township of)
92919	Middlefield (Township of)
53580	Monti
93096	Newton (Township of)
60375	Otterville
93294	Perry (Township of)

<b>FIPS ID</b>	<b>Name</b>
65235	Quasqueton
69060	Rowley
71805	Shady Grove
74955	Stanley
94047	Sumner (Township of)
94458	Washington (Township of)
94656	Westburg (Township of)
86565	Winthrop
	<b>Buena Vista County</b>
00865	Albert City
01495	Alta
90129	Barnes (Township of)
05500	Bel Air Beach
90351	Brooke (Township of)
11440	Casino Beach
90822	Coon (Township of)
91173	Elk (Township of)
25455	Emerald Park
91272	Fairfield (Township of)
91632	Grant (Township of)
34320	Hanover
91887	Hayes (Township of)
40080	Juniata

<b>FIPS ID</b>	<b>Name</b>
42645	Lakeside
92400	Lee (Township of)
44745	Leverett
92529	Lincoln (Township of)
45480	Linn Grove
92823	Maple Valley (Township of)
49260	Marathon
55965	Newell
93078	Newell (Township of)
93129	Nokomis (Township of)
93435	Poland (Township of)
93513	Providence (Township of)
66360	Rembrandt
93768	Scott (Township of)
93927	Sioux Rapids
73425	Sioux Rapids
93928	Sioux Rapids (Township of)
75630	Storm Lake
94018	Storm Lake
94019	Storm Lake (Township of)
76080	Sulphur Springs
79095	Truesdale
94461	Washington (Township of)
84720	West Storm Lake (Emerald Park)

<b>FIPS ID</b>	<b>Name</b>
	<b>Butler County</b>
90030	Albion (Township of)
01315	Allison
02395	Aplington
02620	Aredale
03880	Austinville
90153	Beaver (Township of)
90195	Bennezette (Township of)
08560	Bristow
90420	Butler (Township of)
09745	Butler Center
13755	Clarksville
90753	Coldwater (Township of)
16695	Coster
90903	Dayton (Township of)
22620	Dumont
24620	Eleanor
91464	Fremont (Township of)
32745	Greene
92100	Jackson (Township of)
92211	Jefferson (Township of)
41025	Kesley
92754	Madison (Township of)

<b>FIPS ID</b>	<b>Name</b>
92967	Monroe (Township of)
55800	New Albion
56145	New Hartford
60870	Packard
61590	Parkersburg
62860	Pilot Rock
93339	Pittsford (Township of)
93633	Ripley (Township of)
72435	Shell Rock
93837	Shell Rock (Township of)
73245	Sinclair
76700	Swanton
94464	Washington (Township of)
94692	West Point (Township of)
86060	Wilmar
	<b>Calhoun County</b>
90423	Butler (Township of)
90441	Calhoun (Township of)
90528	Cedar (Township of)
90585	Center (Township of)
91215	Elm Grove (Township of)
26940	Farnhamville
91509	Garfield (Township of)

<b>FIPS ID</b>	<b>Name</b>
91758	Greenfield (Township of)
92103	Jackson (Township of)
39900	Jolley
41790	Knierim
41880	Knoke
92368	Lake City
42465	Lake City
92369	Lake City (Township of)
92370	Lake Creek (Township of)
43095	Lanedale (Iowa State Women's Reformatory)
43770	Lavinia
92532	Lincoln (Township of)
92688	Logan (Township of)
46245	Lohrville
47730	Lytton
48990	Manson
63030	Piper
64065	Pomeroy
65685	Rands
93546	Reading (Township of)
66630	Richard
67125	Rinard
68295	Rockwell City
93855	Sherman (Township of)

<b>FIPS ID</b>	<b>Name</b>
72705	Sherwood
73920	Somers
94152	Twin Lakes (Township of)
94179	Union (Township of)
85530	Wieston
85575	Wightman
94734	Williams (Township of)
87375	Yetter
	<b>Carroll County</b>
02485	Arcadia
90075	Arcadia (Township of)
08290	Breda
90475	Carroll
11080	Carroll
90476	Carroll (Township of)
11110	Carrollton
16050	Coon Rapids
19450	Dedham
91134	Eden (Township of)
91254	Ewoldt (Township of)
31395	Glidden
91581	Glidden (Township of)
91635	Grant (Township of)

<b>FIPS ID</b>	<b>Name</b>
33645	Halbur
92196	Jasper (Township of)
92319	Kniest (Township of)
43140	Lanesboro
45030	Lidderdale
48945	Manning
92811	Manning
49125	Maple River
92820	Maple River (Township of)
49135	Maple River Junction
54525	Mount Carmel
93099	Newton (Township of)
93405	Pleasant Valley (Township of)
65505	Ralston
93573	Richland (Township of)
68745	Roselle
93699	Roselle (Township of)
93840	Sheridan (Township of)
77340	Templeton
94182	Union (Township of)
94426	Warren (Township of)
94467	Washington (Township of)
94704	Wheatland (Township of)
85710	Willey

<b>FIPS ID</b>	<b>Name</b>
	<b>Cass County</b>
02260	Anita
03520	Atlantic
90144	Bear Grove (Township of)
90204	Benton (Township of)
90336	Brighton (Township of)
90492	Cass (Township of)
17760	Cumberland
21155	Dewey
91155	Edna (Township of)
91392	Franklin (Township of)
91638	Grant (Township of)
33150	Griswold
91779	Grove (Township of)
44805	Lewis
92535	Lincoln (Township of)
46470	Lorah
47550	Lyman
49575	Marne
50250	Massena
92892	Massena (Township of)
93117	Noble (Township of)
57730	Norway Center

<b>FIPS ID</b>	<b>Name</b>
93360	Pleasant (Township of)
93528	Pymosa (Township of)
94185	Union (Township of)
94350	Victoria (Township of)
94470	Washington (Township of)
86610	Wiota
	<b>Cedar County</b>
05770	Bennett
09010	Buchanan
90495	Cass (Township of)
11665	Cedar Bluff
12045	Cedar Valley
90588	Center (Township of)
12135	Centerdale
13530	Clarence
90906	Dayton (Township of)
22260	Downey
22980	Durant
91275	Fairfield (Township of)
91317	Farmington (Township of)
91467	Fremont (Township of)

<b>FIPS ID</b>	<b>Name</b>
91593	Gower (Township of)
35782	Herbert Hoover National Historic Site
92046	Inland (Township of)
92055	Iowa (Township of)
45120	Lime City
92643	Linn (Township of)
46920	Lowden
50340	Massillon
92895	Massillon (Township of)
50700	Mechanicsville
93333	Pioneer (Township of)
93552	Red Oak (Township of)
67890	Rochester
93654	Rochester (Township of)
74550	Springdale
93975	Springdale (Township of)
93978	Springfield (Township of)
75045	Stanwood
94023	Sugar Creek (Township of)
76305	Sunbury
78285	Tipton
81725	Wald
83595	West Branch
86015	Williamstown

<b>FIPS ID</b>	<b>Name</b>
86070	Wilton
	<b>Cerro Gordo County</b>
90135	Bath (Township of)
09415	Burchinal
10270	Cameron
11260	Cartersville
12585	Central Heights (West Mason City)
90720	Clear Lake
14025	Clear Lake
90719	Clear Lake (Township of)
90724	Clear Lake City (Township of)
14070	Clear Lake Junction
22080	Dougherty
91017	Dougherty (Township of)
25545	Emery
91308	Falls (Township of)
29100	Freeman
91551	Geneseo (Township of)
91641	Grant (Township of)
91773	Grimes (Township of)
34095	Hanford
37695	Hurley
92346	Lake (Township of)

<b>FIPS ID</b>	<b>Name</b>
92508	Lime Creek (Township of)
92538	Lincoln (Township of)
92886	Mason (Township of)
92890	Mason City
50160	Mason City
92891	Mason City (Township of)
50175	Mason City Municipal Airport
51420	Meservey
93042	Mount Vernon (Township of)
56910	Nora Springs
93246	Owen (Township of)
93408	Pleasant Valley (Township of)
63885	Plymouth
63930	Plymouth Junction
64155	Portland
93456	Portland (Township of)
68025	Rock Falls
68250	Rockwell
76620	Swaledale
77880	Thornton
94188	Union (Township of)
80580	Ventura
80590	Ventura Heights
84360	West Mason City (Central Heights)

<b>FIPS ID</b>	<b>Name</b>
86475	Winnebago Heights
	<b>Cherokee County</b>
90021	Afton (Township of)
90063	Amherst (Township of)
03745	Aurelia
90531	Cedar (Township of)
13080	Cherokee
90654	Cherokee (Township of)
14115	Cleghorn
90996	Diamond (Township of)
21315	Diamond Center
27480	Fielding
91602	Grand Meadow (Township of)
43500	Larrabee
92442	Liberty (Township of)
49350	Marcus
92829	Marcus (Township of)
50025	Mary Hill
51150	Meriden
59160	Onawa Junction
93321	Pilot (Township of)
93336	Pitcher (Township of)
65280	Quimby

<b>FIPS ID</b>	<b>Name</b>
93657	Rock (Township of)
93843	Sheridan (Township of)
93891	Silver (Township of)
93963	Spring (Township of)
94113	Tilden (Township of)
82380	Washta
94740	Willow (Township of)
	<b>Chickasaw County</b>
01540	Alta Vista
04780	Bassett
06235	Bethany Hall
07795	Boyd
07975	Bradford
90324	Bradford (Township of)
13170	Chickasaw
90663	Chickasaw (Township of)
90909	Dayton (Township of)
19560	Deerfield
90942	Deerfield (Township of)
21090	Devon
91083	Dresden (Township of)
28965	Fredericksburg
91437	Fredericksburg (Township of)

<b>FIPS ID</b>	<b>Name</b>
38460	Ionia
39170	Jacksonville
92184	Jacksonville (Township of)
39495	Jerico
43815	Lawler
45930	Little Turkey
46440	Lonia
55335	Nashua
56100	New Hampton
93081	New Hampton (Township of)
57495	North Washington
66310	Reilly Settlement
66495	Republic
93576	Richland (Township of)
70770	Saude
94008	Stapleton (Township of)
94299	Utica (Township of)
94473	Washington (Township of)
86020	Williamstown
	<b>Clarke County</b>
91077	Doyle (Township of)
91395	Franklin (Township of)
91470	Fremont (Township of)

<b>FIPS ID</b>	<b>Name</b>
91740	Green Bay (Township of)
37110	Hopeville
92106	Jackson (Township of)
39360	Jamison
39425	Jay
92322	Knox (Township of)
42195	Lacelle
44625	Leslie
44895	Liberty
92445	Liberty (Township of)
92757	Madison (Township of)
55065	Murray
93212	Osceola
59835	Osceola
93213	Osceola (Township of)
93217	Osceola City (Township of)
60300	Ottawa
73670	Smyrna
94134	Troy (Township of)
94422	Ward (Township of)
94476	Washington (Township of)
86880	Woodburn
	<b>Clay County</b>

<b>FIPS ID</b>	<b>Name</b>
90672	Clay (Township of)
13800	Clay Siding
16365	Corn Belt (Power Plant)
16455	Cornell
21360	Dickens
91035	Douglas (Township of)
26175	Everly
28650	Fostoria
91452	Freeman (Township of)
91512	Garfield (Township of)
30810	Gillett Grove
91569	Gillett Grove (Township of)
32970	Greenville
91914	Herdland (Township of)
92349	Lake (Township of)
43185	Langdon
92541	Lincoln (Township of)
92691	Logan (Township of)
92709	Lone Tree (Township of)
46560	Lost Island Lake
92901	Meadow (Township of)
62625	Peterson
93312	Peterson (Township of)
93645	Riverton (Township of)

<b>FIPS ID</b>	<b>Name</b>
68925	Rossie
69105	Royal
93912	Sioux (Township of)
93955	Spencer
74280	Spencer
93956	Spencer (Township of)
94038	Summit (Township of)
94590	Waterford (Township of)
83010	Webb
	<b>Clayton County</b>
06400	Beulah
90291	Boardman (Township of)
90378	Buena Vista (Township of)
90498	Cass (Township of)
12645	Ceres
13845	Clayton
90705	Clayton (Township of)
13890	Clayton Center
15555	Communia
90843	Cox Creek (Township of)
23925	Eckards
24060	Edgewood
24262	Effiay Mounds National Monument

<b>FIPS ID</b>	<b>Name</b>
91176	Elk (Township of)
24690	Elkader
24825	Elkport
26615	Fairview
26695	Famersburg
26850	Farmersburg
91311	Farmersburg (Township of)
29235	Froelich
29685	Garber
29910	Garnavillo
91542	Garnavillo (Township of)
30495	Giard
91566	Giard (Township of)
91605	Grand Meadow (Township of)
33330	Gunder
33465	Guttenberg
34425	Hardin
36065	Highland
91929	Highland (Township of)
92214	Jefferson (Township of)
45750	Littleport
92685	Lodomillo (Township of)
47055	Luana
92808	Mallory (Township of)

<b>FIPS ID</b>	<b>Name</b>
92841	Marion (Township of)
49620	Marquette
48000	McGregor
48020	McGregor Heights
50745	Mederville
92913	Mendon (Township of)
52410	Millville
92943	Millville (Township of)
53310	Monona
92961	Monona (Township of)
54365	Motor
55425	National
57135	North Buena Vista
59790	Osborne
60015	Osterdock
64290	Postville
93543	Read (Township of)
70200	Saint Sebald
93957	Sperry (Township of)
70140	St. Olaf
75855	Strawberry Point
77735	Thomasville
79230	Turkey River
79880	Updegraff

<b>FIPS ID</b>	<b>Name</b>
81345	Volga (corporate name for Volga City)
94374	Volga (Township of)
81390	Volga City (corporate name Volga)
94380	Wagner (Township of)
82560	Watson
86790	Wood
	<b>Clinton County</b>
01360	Almont
02080	Andover
06535	Big Rock
06960	Bliedorn
90267	Bloomfield (Township of)
90354	Brookfield (Township of)
08830	Browns
08965	Bryant
09225	Buena Vista
09345	Bulgars Hollow
09820	Calamus
10135	Camanche
90450	Camanche (Township of)
90591	Center (Township of)
12855	Charlotte

<b>FIPS ID</b>	<b>Name</b>
90736	Clinton
14430	Clinton
90737	Clinton (Township of)
14452	Clinton Municipal Airport
21180	De Witt
90993	De Witt (Township of)
90927	Deep Creek (Township of)
19720	Delmar
91137	Eden (Township of)
91194	Elk River (Township of)
24850	Elk River Junction
25275	Elvira
25320	Elwood
28155	Folletts
31665	Goose Lake
32025	Grand Mound
91644	Grant (Township of)
91818	Hampshire (Township of)
35085	Hauntown
92448	Liberty (Township of)
46605	Lost Nation
47010	Low Moor
47640	Lyons
48630	Malone

<b>FIPS ID</b>	<b>Name</b>
57540	North Welton
93171	Olive (Township of)
93189	Orange (Township of)
62670	Petersville
67100	Riggs
71850	Shaffton
93828	Sharon (Township of)
73470	Sixmile
93990	Spring Rock (Township of)
77205	Teeds Grove
77385	Tenmile
78600	Toronto
94479	Washington (Township of)
94593	Waterford (Township of)
83370	Welton
94641	Welton (Township of)
83820	West Clinton
84945	Wheatland
	<b>Crawford County</b>
02755	Arion
03340	Aspinwall
03360	Astor
06130	Berne

<b>FIPS ID</b>	<b>Name</b>
07885	Boyer
90315	Boyer (Township of)
07900	Boyer River
09145	Buck Grove
12900	Charter Oak
90648	Charter Oak (Township of)
19765	Deloit
19945	Denison
90960	Denison (Township of)
22215	Dow City
91107	East Boyer (Township of)
24960	Ells
91587	Goodrich (Township of)
91827	Hanover (Township of)
91890	Hayes (Township of)
92058	Iowa (Township of)
92109	Jackson (Township of)
40755	Kenwood
41610	Kiron
48855	Manilla
92928	Milford (Township of)
93003	Morgan (Township of)
93114	Nishnabotny (Township of)
93231	Otter Creek (Township of)

<b>FIPS ID</b>	<b>Name</b>
93270	Paradise (Township of)
66855	Ricketts
71130	Schleswig
93936	Soldier (Township of)
94017	Stockholm (Township of)
94191	Union (Township of)
80130	Vail
94482	Washington (Township of)
94701	West Side (Township of)
84675	West Side (Westside)
84630	Westside (West Side)
94743	Willow (Township of)
	<b>Dallas County</b>
90003	Adams (Township of)
00505	Adel
90018	Adel (Township of)
90156	Beaver (Township of)
06645	Black Corners
90300	Boone (Township of)
07525	Booneville
07660	Bouton
14520	Clive
90759	Colfax (Township of)

<b>FIPS ID</b>	<b>Name</b>
90879	Dallas (Township of)
18255	Dallas Center
19135	Dawson
21045	De Soto
90972	Des Moines (Township of)
21225	Dexter
29820	Gardiner
29975	Garretville
30520	Gibbsville
32160	Granger
32205	Granger Homesteads
91647	Grant (Township of)
33060	Grimes
33555	Hadden Hill
40575	Kennedy
92544	Lincoln (Township of)
45390	Linden
92646	Linn (Township of)
52545	Minburn
53940	Moran
59700	Ortonville
61400	Panther
62355	Perry
66045	Redfield

<b>FIPS ID</b>	<b>Name</b>
93993	Spring Valley (Township of)
94029	Sugar Grove (Township of)
77655	The Meadows (State Hospital)
94194	Union (Township of)
79950	Urbandale
80445	Van Meter
94326	Van Meter (Township of)
94395	Walnut (Township of)
94485	Washington (Township of)
82695	Waukee
83910	West Des Moines
86655	Wiscotta
86970	Woodward
87645	Zook Spur
	<b>Davis County</b>
03250	Ash Grove
05545	Belknap
90268	Bloomfield
07030	Bloomfield
90269	Bloomfield (Township of)
09370	Bunch
10630	Carbon
90732	Cleveland (Township of)

<b>FIPS ID</b>	<b>Name</b>
22350	Drakesville
91080	Drakesville (Township of)
91263	Fabius (Township of)
27975	Floris
91377	Fox River (Township of)
91782	Grove (Township of)
92502	Lick Creek (Township of)
47250	Lunsford
92844	Marion (Township of)
49530	Mark
53445	Monterey
61540	Paris
61500	Paris (Bunch)
93297	Perry (Township of)
93480	Prairie (Township of)
65055	Pulaski
93693	Roscoe (Township of)
93747	Salt Creek (Township of)
70815	Savannah
72850	Shunem
93933	Soap Creek (Township of)
75280	Steuben
75315	Stiles
78960	Troy

<b>FIPS ID</b>	<b>Name</b>
94197	Union (Township of)
84225	West Grove
94677	West Grove (Township of)
85080	White Elm
94791	Wyacondah (Township of)
	<b>Decatur County</b>
90276	Bloomington (Township of)
90408	Burrell (Township of)
90594	Center (Township of)
19090	Davis City
19315	Decatur (corporate name Decatur City)
90921	Decatur (Township of)
19360	Decatur City (corporate name for Decatur)
91140	Eden (Township of)
91323	Fayette (Township of)
91398	Franklin (Township of)
29775	Garden Grove
91506	Garden Grove (Township of)
30765	Giles
32070	Grand River
91611	Grand River (Township of)
91806	Hamilton (Township of)

<b>FIPS ID</b>	<b>Name</b>
36255	High Point
91959	High Point (Township of)
92380	Lamoni
42960	Lamoni
92381	Lamoni (Township of)
44580	Le Roy
44535	Leon
92416	Leon
92417	Leon (Township of)
92712	Long Creek (Township of)
93006	Morgan (Township of)
93072	New Buda (Township of)
63570	Pleasanton
93579	Richland (Township of)
77510	Terre Haute
79275	Tuskeego
80490	Van Wert
83190	Weldon
84045	Westerville
86925	Woodland
94776	Woodland (Township of)
	<b>Delaware County</b>
90006	Adams (Township of)

<b>FIPS ID</b>	<b>Name</b>
01405	Almoral
01425	Almoral Spring
90330	Bremen (Township of)
09060	Buck Creek
90750	Coffins Grove (Township of)
15015	Colesburg
90783	Colony (Township of)
19630	Delaware
90948	Delaware (Township of)
19675	Delhi
90957	Delhi (Township of)
22800	Dundee
23070	Dutchtown
23115	Dyersville
23430	Earlville
24060	Edgewood
91179	Elk (Township of)
28400	Forestville
30965	Gilt Edge
32610	Greeley
35535	Hazel Green
91899	Hazel Green (Township of)
91980	Honey Creek (Township of)
37155	Hopkinton

<b>FIPS ID</b>	<b>Name</b>
48810	Manchester
50205	Masonville
92946	Milo (Township of)
93132	North Fork (Township of)
59205	Oneida
93177	Oneida (Township of)
62580	Petersburg
62535	Petersburg (sta.)
93483	Prairie (Township of)
93582	Richland (Township of)
67845	Robinson
68220	Rockville
69465	Ryan
70500	Sand Springs
93945	South Fork (Township of)
77925	Thorpe
94200	Union (Township of)
	<b>Des Moines County</b>
03700	Augusta
05200	Beaverdale
05275	Beaverdale Heights
90207	Benton (Township of)
90401	Burlington

<b>FIPS ID</b>	<b>Name</b>
09550	Burlington
90402	Burlington (Township of)
09565	Burlington Municipal Airport
90813	Concordia (Township of)
90887	Danville
18435	Danville
90888	Danville (Township of)
21630	Dodgeville
91347	Flint River (Township of)
91401	Franklin (Township of)
29885	Garland
37740	Huron
92010	Huron (Township of)
38505	Iowa Army Ammunition Plant
92112	Jackson (Township of)
40485	Kemper
41430	Kingston
42105	Kossuth
43635	Latty
50790	Mediapolis
92906	Mediapolis
51735	Middletown
92924	Middletown
57270	Northfield

<b>FIPS ID</b>	<b>Name</b>
63480	Pleasant Grove
93390	Pleasant Grove (Township of)
64515	Prairie Grove
64920	Prospect Hill
68655	Roscoe
74325	Sperry
74640	Spring Grove
94080	Tama (Township of)
94203	Union (Township of)
94488	Washington (Township of)
83685	West Burlington
94658	West Burlington
87330	Yarmouth
94803	Yellow Springs (Township of)
	<b>Dickinson County</b>
03025	Arnolds Park
90639	Center Grove (Township of)
16995	Crandalls Lodge
90999	Diamond Lake (Township of)
24330	Egralharve
91257	Excelsior (Township of)
42600	Lake Park
92379	Lakeville (Township of)

<b>FIPS ID</b>	<b>Name</b>
92673	Lloyd (Township of)
51465	Methodist Camp
52095	Milford
92931	Milford (Township of)
53535	Montgomery
58710	Okoboji
93168	Okoboji (Township of)
58935	Old Town
59655	Orleans
93585	Richland (Township of)
93903	Silver Lake (Township of)
74415	Spirit Lake
93960	Spirit Lake (Township of)
76440	Superior
94062	Superior (Township of)
77250	Templar Park
77520	Terril
78870	Triboji Beach
81615	Wahpeton
84450	West Okoboji
94698	Westport (Township of)
	<b>Dubuque County</b>
03160	Asbury

<b>FIPS ID</b>	<b>Name</b>
04375	Balltown
04395	Ballyclough
04510	Bankston
06085	Bernard
09215	Budd
10275	Cameron
11305	Cascade
90486	Cascade (Township of)
11610	Cattese
90597	Center (Township of)
12180	Center Grove
12630	Centralia
90798	Concord (Township of)
16710	Cottage Hill
91005	Dodge (Township of)
22395	Dubuque
91085	Dubuque
91086	Dubuque (Township of)
22440	Dubuque Junction
22455	Dubuque Municipal Airport
22935	Durango
23115	Dyersville
23295	Eagle Point
23855	East Rickardsville

<b>FIPS ID</b>	<b>Name</b>
24195	Edmore
25725	Epworth
26490	Fair Ground
26760	Farley
27525	Fillmore
27750	Five Points
28085	Floyd School
29205	Frith Spur
31845	Graf
36885	Holy Cross
92061	Iowa (Township of)
92217	Jefferson (Township of)
40035	Julien
92285	Julien (Township of)
41160	Key West
41340	King
43615	Lattnerville
92451	Liberty (Township of)
46495	Lore
47460	Luxemburg
50295	Massey
50855	Mekee
93024	Mosalem (Township of)
56550	New Vienna

<b>FIPS ID</b>	<b>Name</b>
93108	New Wine (Township of)
58800	Old Balltown
62130	Peosta
93309	Peru (Township of)
63485	Pleasant Grove
93498	Prairie Creek (Township of)
66810	Rickardsville
67980	Rockdale
68690	Rose
69690	Sageville
72165	Shawondasse
72660	Sherrill
74235	Spechts Ferry
69870	St. Catherines (King)
94077	Table Mound (Township of)
94098	Taylor (Township of)
79350	Twin Springs
94332	Vernon (Township of)
94491	Washington (Township of)
82350	Washington Mills
82830	Waupeton
94728	Whitewater (Township of)
85705	Wilkins
87060	Worthington

<b>FIPS ID</b>	<b>Name</b>
87690	Zwingle
	<b>Emmet County</b>
02935	Armstrong
90081	Armstrong Grove (Township of)
90600	Center (Township of)
90963	Denmark (Township of)
21675	Dolliver
91209	Ellsworth (Township of)
91221	Emmet (Township of)
25860	Estherville
91242	Estherville (Township of)
33240	Gruver
33735	Halfa
91926	High Lake (Township of)
37650	Huntington
92079	Iowa Lake (Township of)
92085	Jack Creek (Township of)
92547	Lincoln (Township of)
49080	Maple Hill
65500	Raleigh
67170	Ringsted
94065	Swan Lake (Township of)
94146	Twelve Mile Lake (Township of)

<b>FIPS ID</b>	<b>Name</b>
	of)
81975	Wallingford
	<b>Fayette County</b>
00835	Albany
01450	Alpha
02845	Arlington
90090	Auburn (Township of)
90120	Banks (Township of)
90231	Bethel (Township of)
08110	Brainard
90603	Center (Township of)
14250	Clermont
90729	Clermont (Township of)
21765	Donnan
91071	Dover (Township of)
91143	Eden (Township of)
24510	Eldorado
24645	Elgin
26355	Fairbank
91278	Fairfield (Township of)
91324	Fayette
27165	Fayette
91325	Fayette (Township of)

<b>FIPS ID</b>	<b>Name</b>
91473	Fremont (Township of)
91845	Harlan (Township of)
35310	Hawkeye
38030	Illyria
92013	Illyria (Township of)
92220	Jefferson (Township of)
45090	Lima
50115	Maryville
50610	Maynard
58620	Oelwein
59385	Oran
93183	Oran (Township of)
93411	Pleasant Valley (Township of)
93522	Putnam (Township of)
65550	Randalia
66670	Richfield
93771	Scott (Township of)
93930	Smithfield (Township of)
70050	St. Lucas
74955	Stanley
76260	Sumner
77180	Taylorville
94206	Union (Township of)
81570	Wadena

<b>FIPS ID</b>	<b>Name</b>
82650	Waucoma
94702	West Union
84765	West Union
94703	West Union (Township of)
94662	Westfield (Township of)
84180	Westgate
94761	Windsor (Township of)
	<b>Floyd County</b>
03790	Aureola
11140	Carrville
90534	Cedar (Township of)
12090	Cedar View
12765	Charles City
90645	Charles City
90646	Charles City (Township of)
15465	Colwell
28020	Floyd
91353	Floyd (Township of)
28065	Floyd Crossing
37365	Howardville
49035	Maple Heights
49305	Marble Rock
51915	Midway

<b>FIPS ID</b>	<b>Name</b>
93111	Niles (Township of)
56910	Nora Springs
56955	Nora Springs Junction
58440	Oakwood
93393	Pleasant Grove (Township of)
64335	Powersville
93648	Riverton (Township of)
93681	Rock Grove (Township of)
68070	Rockford
93675	Rockford (Township of)
68800	Roseville
69195	Rudd
93711	Rudd (Township of)
93774	Scott (Township of)
73020	Siding A
93729	St. Charles (Township of)
94158	Ulster (Township of)
94209	Union (Township of)
81930	Waller
83730	West Charles City
	<b>Franklin County</b>
00190	Ackley
01090	Alexander

<b>FIPS ID</b>	<b>Name</b>
08020	Bradford
09460	Burdette
12675	Chapin
90739	Clinton (Township of)
16815	Coulter
22305	Dows
27120	Faulkner
30135	Geneva
91557	Geneva (Township of)
91650	Grant (Township of)
91809	Hamilton (Township of)
91819	Hampton
33960	Hampton
34365	Hansell
92040	Ingham (Township of)
43590	Latimer
92403	Lee (Township of)
92847	Marion (Township of)
93009	Morgan (Township of)
93030	Mott (Township of)
58060	Oakland
93156	Oakland (Township of)
93216	Osceola (Township of)
64110	Popejoy

<b>FIPS ID</b>	<b>Name</b>
66270	Reeve
93561	Reeve (Township of)
93588	Richland (Township of)
93702	Ross (Township of)
93777	Scott (Township of)
72210	Sheffield
93833	Sheffield
94493	Washington (Township of)
94668	West Fork (Township of)
94767	Wisner (Township of)
	<b>Fremont County</b>
02035	Anderson
04735	Bartlett
90210	Benton (Township of)
26985	Farragut
91344	Fisher (Township of)
91405	Franklin (Township of)
91734	Green (Township of)
33780	Hamburg
91804	Hamburg
38055	Imogene
92679	Locust Grove (Township of)
92760	Madison (Township of)

<b>FIPS ID</b>	<b>Name</b>
48270	McPaul
92970	Monroe (Township of)
61950	Payne
62175	Percival
93486	Prairie (Township of)
65640	Randolph
93639	Riverside (Township of)
67575	Riverton
93651	Riverton (Township of)
93703	Ross (Township of)
93780	Scott (Township of)
72525	Shenandoah
73065	Sidney
93885	Sidney (Township of)
76170	Summit
94078	Tabor
76935	Tabor
77970	Thurman
94398	Walnut (Township of)
94494	Washington (Township of)
	<b>Greene County</b>
00460	Adaza
90342	Bristol (Township of)

<b>FIPS ID</b>	<b>Name</b>
90537	Cedar (Township of)
13350	Churdan
16095	Cooper
18345	Dana
90897	Dawson (Township of)
26805	Farlin
91404	Franklin (Township of)
31980	Grand Junction
91653	Grant (Township of)
91746	Greenbrier (Township of)
91830	Hardin (Township of)
91932	Highland (Township of)
37065	Hope
92115	Jackson (Township of)
39450	Jefferson
92221	Jefferson
92222	Jefferson (Township of)
92286	Junction (Township of)
92304	Kendrick (Township of)
61815	Paton
93276	Paton (Township of)
65505	Ralston
67215	Rippey
71310	Scranton

<b>FIPS ID</b>	<b>Name</b>
93804	Scranton (Township of)
94497	Washington (Township of)
94746	Willow (Township of)
86430	Winkelmans
	<b>Grundy County</b>
05140	Beaman
90159	Beaver (Township of)
90249	Black Hawk (Township of)
09160	Buck Grove
90675	Clay (Township of)
90762	Colfax (Township of)
15825	Conrad
21405	Dike
91281	Fairfield (Township of)
91329	Felix (Township of)
27300	Fern
29075	Fredsville
91560	German (Township of)
91656	Grant (Township of)
33195	Grundy Center
36705	Holland
39060	Ivester
92550	Lincoln (Township of)

<b>FIPS ID</b>	<b>Name</b>
92907	Melrose (Township of)
54165	Morrison
93258	Palermo (Township of)
93414	Pleasant Valley (Township of)
66315	Reinbeck
93882	Shiloh (Township of)
75720	Stout
94500	Washington (Township of)
83325	Wellsburg
87510	Zaneta
	<b>Guthrie County</b>
00370	Adair
04240	Bagley
90105	Baker (Township of)
04960	Bayard
90147	Bear Grove (Township of)
90162	Beaver (Township of)
11395	Casey
90501	Cass (Township of)
16050	Coon Rapids
18165	Dale
91008	Dodge (Township of)
26715	Fanslers

<b>FIPS ID</b>	<b>Name</b>
31305	Glendon
91659	Grant (Township of)
33420	Guthrie Center
35805	Herndon
91935	Highland (Township of)
92118	Jackson (Township of)
39225	Jamaica
51105	Menlo
53400	Monteith
57090	North Branch
93192	Orange (Township of)
61320	Panora
93279	Penn (Township of)
93591	Richland (Township of)
93807	Seely (Township of)
75990	Stuart
94020	Stuart (Township of)
94110	Thompson (Township of)
94212	Union (Township of)
94302	Valley (Township of)
94353	Victory (Township of)
85395	Wichita
87285	Yale

<b>FIPS ID</b>	<b>Name</b>
	<b>Hamilton County</b>
06760	Blairsburg
90264	Blairsburg (Township of)
90302	Boone (Township of)
90504	Cass (Township of)
90722	Clear Lake (Township of)
25050	Ellsworth
91212	Ellsworth (Township of)
91446	Freedom (Township of)
91476	Fremont (Township of)
91812	Hamilton (Township of)
36300	Highview
36930	Homer
92019	Independence (Township of)
39630	Jewell (corporate name Jewell Junction)
39675	Jewell Junction (corporate name for Jewell)
40215	Kamrar
92454	Liberty (Township of)
92553	Lincoln (Township of)
92739	Lyon (Township of)
92850	Marion (Township of)
65595	Randall
93696	Rose Grove (Township of)

<b>FIPS ID</b>	<b>Name</b>
93783	Scott (Township of)
74910	Stanhope
75585	Stonega
75810	Stratford
94623	Webster (Township of)
83145	Webster City
94633	Webster City
85800	Williams
94737	Williams (Township of)
	<b>Hancock County</b>
90069	Amsterdam (Township of)
90096	Avery (Township of)
90243	Bingham (Township of)
90303	Boone (Township of)
08605	Britt
90348	Britt (Township of)
90801	Concord (Township of)
16590	Corwith
90861	Crystal (Township of)
17670	Crystal Lake
19900	Denhart
22710	Duncan
91197	Ell (Township of)
91200	Ellington (Township of)

<b>FIPS ID</b>	<b>Name</b>
91239	Erin (Township of)
28380	Forest City
91515	Garfield (Township of)
29955	Garner
31575	Goodell
35490	Hayfield
37875	Hutchins
40260	Kanawha
41655	Klemme
92457	Liberty (Township of)
92763	Madison (Township of)
92793	Magor (Township of)
52140	Miller
93207	Orthel (Township of)
75360	Stilson
94149	Twin Lake (Township of)
86700	Woden
	<b>Hardin County</b>
00100	Abbott Crossing
00190	Ackley
01045	Alden
90036	Alden (Township of)
09100	Buckeye

<b>FIPS ID</b>	<b>Name</b>
90372	Buckeye (Township of)
90678	Clay (Township of)
14295	Cleves
90804	Concord (Township of)
23225	Eagle City
24465	Eldora
91157	Eldora
91158	Eldora (Township of)
91159	Eldora City (Township of)
24555	Eldora Junction
91206	Ellis (Township of)
91245	Etna (Township of)
29730	Garden City
30585	Gifford
91662	Grant (Township of)
91833	Hardin (Township of)
37425	Hubbard
38640	Iowa Falls
92121	Jackson (Township of)
43860	Lawn Hill
48360	Macy
56415	New Providence
60555	Owasa
93363	Pleasant (Township of)

<b>FIPS ID</b>	<b>Name</b>
93516	Providence (Township of)
65370	Radcliffe
67710	Robertson
69000	Rough Woods Hill
72615	Sherman
93858	Sherman (Township of)
75180	Steamboat Rock
94125	Tipton (Township of)
79545	Union
94215	Union (Township of)
85305	Whitten
85700	Wilke
	<b>Harrison County</b>
90039	Allen (Township of)
05410	Beebeetown
90318	Boyer (Township of)
09865	Calhoun
90444	Calhoun (Township of)
09910	California Junction
90507	Cass (Township of)
90666	Cincinnati (Township of)
90681	Clay (Township of)
91038	Douglas (Township of)

<b>FIPS ID</b>	<b>Name</b>
22890	Dunlap
25905	Euclid
27590	Findley
34440	Hard Scratch
91863	Harrison (Township of)
92124	Jackson (Township of)
92223	Jefferson (Township of)
92343	La Grange (Township of)
92556	Lincoln (Township of)
45840	Little Sioux
92664	Little Sioux (Township of)
46155	Logan
48495	Magnolia
92790	Magnolia (Township of)
52860	Missouri Valley
52995	Modale
53175	Mondamin
93012	Morgan (Township of)
59685	Orson
62445	Persia
63075	Pisgah
93534	Raglan (Township of)
67530	River Sioux
93738	St. John (Township of)

<b>FIPS ID</b>	<b>Name</b>
94101	Taylor (Township of)
94218	Union (Township of)
94503	Washington (Township of)
86835	Woodbine
87410	Yorkshire
	<b>Henry County</b>
90114	Baltimore (Township of)
10215	Cambridge
90459	Canaan (Township of)
90606	Center (Township of)
16140	Coppock
36390	Hillsboro
92127	Jackson (Township of)
92226	Jefferson (Township of)
46965	Lowell
92853	Marion (Township of)
93036	Mount Pleasant
54705	Mount Pleasant
93037	Mount Pleasant (Township of)
54795	Mount Union
56325	New London
93087	New London (Township of)
58215	Oakland Mills

<b>FIPS ID</b>	<b>Name</b>
58890	Olds
68565	Rome
70230	Salem
93744	Salem (Township of)
93786	Scott (Township of)
76800	Swedesburg
94122	Tippecanoe (Township of)
78780	Trenton
94131	Trenton (Township of)
82965	Wayland
94609	Wayne (Township of)
84835	Westwood
86385	Winfield
	<b>Howard County</b>
90024	Afton (Township of)
90033	Albion (Township of)
07300	Bonair
13125	Chester
90657	Chester (Township of)
17220	Cresco
19110	Davis Corners
25095	Elma
27930	Florenceville

<b>FIPS ID</b>	<b>Name</b>
91368	Forest City (Township of)
91989	Howard (Township of)
92001	Howard Center (Township of)
92190	Jamestown (Township of)
45060	Lidtke Mill
45165	Lime Springs
46740	Lourdes
49100	Maple Leaf
93090	New Oregon (Township of)
93150	Oak Dale (Township of)
93273	Paris (Township of)
65010	Protivin
66585	Riceville
70680	Saratoga
93756	Saratoga (Township of)
71175	Schley
80715	Vernon Springs
94347	Vernon Springs (Township of)
	<b>Humboldt County</b>
02980	Arnold
90099	Avery (Township of)
90165	Beaver (Township of)
07210	Bode

<b>FIPS ID</b>	<b>Name</b>
08065	Bradgate
90834	Corinth (Township of)
90871	Dakota (Township of)
90872	Dakota City
18075	Dakota City
90945	Delana (Township of)
30945	Gilmore City
91785	Grove (Township of)
34455	Hardy
92003	Humboldt
37560	Humboldt
92004	Humboldt (Township of)
92352	Lake (Township of)
45975	Livermore
47370	Lu Verne (corporate name for Luverne)
47415	Luverne (corporate name Lu Verne)
93138	Norway (Township of)
60420	Ottosen
62985	Pioneer
66450	Renwick
69375	Rutland
93717	Rutland (Township of)
93992	Springvale (Township of)

<b>FIPS ID</b>	<b>Name</b>
77790	Thor
94335	Vernon (Township of)
94377	Wacousta (Township of)
94620	Weaver (Township of)
	<b>Ida County</b>
03115	Arthur
90138	Battle (Township of)
04870	Battle Creek
90258	Blaine (Township of)
90837	Corwin (Township of)
91041	Douglas (Township of)
29595	Galva
91500	Galva (Township of)
91518	Garfield (Township of)
91665	Grant (Township of)
91770	Griggs (Township of)
91893	Hayes (Township of)
36840	Holstein
38010	Ida Grove
92694	Logan (Township of)
92814	Maple (Township of)
93894	Silver Creek (Township of)

<b>FIPS ID</b>	<b>Name</b>
	<b>Iowa County</b>
01720	Amana
15870	Conroy
90912	Dayton (Township of)
23520	East Amana
91227	English (Township of)
91341	Fillmore (Township of)
30180	Genoa Bluff
31550	Gonoa Bluff
91752	Greene (Township of)
91878	Hartford (Township of)
35985	High (High Amana)
36030	High Amana
91962	Hilton (Township of)
36615	Holbrook
36975	Homestead
91983	Honey Creek (Township of)
92064	Iowa (Township of)
42150	Koszta
42330	Ladora
92415	Lenox (Township of)
92559	Lincoln (Township of)
49395	Marengo
92835	Marengo (Township of)

<b>FIPS ID</b>	<b>Name</b>
51555	Middle (Middle Amana)
51600	Middle Amana
52230	Millersburg
57225	North English
61770	Parnell
93324	Pilot (Township of)
73965	South Amana
94050	Sumner (Township of)
94137	Troy (Township of)
79890	Upper South Amana
80805	Victor
94506	Washington (Township of)
83460	West (West Amana)
83505	West Amana
85845	Williamsburg
94806	York (Township of)
	<b>Jackson County</b>
02125	Andrew
04330	Baldwin
05635	Bellevue
90180	Bellevue (Township of)
90327	Brandon (Township of)
08355	Bridgeport

<b>FIPS ID</b>	<b>Name</b>
09165	Buckhorn
90426	Butler (Township of)
10405	Canton
16745	Cottonville
16925	Crab Town
25410	Emeline
91284	Fairfield (Township of)
91314	Farmers Creek (Township of)
29370	Fulton
30020	Garry Owen
32880	Green Island
37785	Hurstville
92067	Iowa (Township of)
38865	Ironhills
92130	Jackson (Township of)
43050	La Motte
42400	Lainsville
49215	Maquoketa
92826	Maquoketa (Township of)
52050	Miles
53265	Monmouth
92958	Monmouth (Township of)
85380	Nashville
60330	Otter Creek

<b>FIPS ID</b>	<b>Name</b>
93234	Otter Creek (Township of)
60800	Ozark
93300	Perry (Township of)
93501	Prairie Springs (Township of)
64605	Preston
66260	Reeceville
93594	Richland (Township of)
69510	Sabula
69555	Sabula Junction
70365	Samoa
73660	Smiths
93948	South Fork (Township of)
74065	South Garry Owen
74460	Spragueville
74505	Springbrook
69960	St. Donatus
75270	Sterling
94107	Tete Des Morts (Township of)
79355	Twin Springs
94221	Union (Township of)
80300	Van Buren
94314	Van Buren (Township of)
94509	Washington (Township of)
87690	Zwingle

<b>FIPS ID</b>	<b>Name</b>
	<b>Jasper County</b>
01810	Amboy
04915	Baxter
90381	Buena Vista (Township of)
90711	Clear Creek (Township of)
14700	Clyde
15060	Colfax
90975	Des Moines (Township of)
91182	Elk Creek (Township of)
91293	Fairview (Township of)
29460	Galesburg
31485	Goddard
32700	Green Castle
91920	Hickory Grove (Township of)
92022	Independence (Township of)
38775	Ira
40440	Kellogg
92301	Kellogg (Township of)
41250	Killduff
42870	Lambs Grove
92736	Lynn Grove (Township of)
47595	Lynnville
92802	Malaka (Township of)

<b>FIPS ID</b>	<b>Name</b>
92871	Mariposa (Township of)
51485	Metz
52815	Mingo
53355	Monroe
93033	Mound Prairie (Township of)
55920	Newburg
56505	Newton
93102	Newton (Township of)
58170	Oakland Acres
60060	Oswalt
93267	Palo Alto (Township of)
93471	Poweshiek (Township of)
64470	Prairie City
65955	Reasnor
93597	Richland (Township of)
93672	Rock Creek (Township of)
93861	Sherman (Township of)
76035	Sully
80175	Valeria
80355	Vandalia
94512	Washington (Township of)
	<b>Jefferson County</b>
00145	Abingdon

<b>FIPS ID</b>	<b>Name</b>
04825	Batavia
05320	Beckwith
90252	Black Hawk (Township of)
08800	Brookville
90366	Buchanan (Township of)
90540	Cedar (Township of)
90609	Center (Township of)
15170	Collett
16140	Coppock
90978	Des Moines (Township of)
23835	East Pleasant Plain
91285	Fairfield
26445	Fairfield
91286	Fairfield (Township of)
28695	Four Corners
30450	Germanville
31215	Glasgow
92460	Liberty (Township of)
44985	Libertyville
45210	Linby
46065	Lockridge
92676	Lockridge (Township of)
92682	Locust Grove (Township of)
51395	Merrimac

<b>FIPS ID</b>	<b>Name</b>
60915	Packwood
61995	Pekin
93282	Penn (Township of)
62310	Perlee
63615	Pleasant Plain
93444	Polk (Township of)
93708	Round Prairie (Township of)
70275	Salina
80625	Veo
94401	Walnut (Township of)
	<b>Johnson County</b>
01900	Amish
90240	Big Grove (Township of)
90543	Cedar (Township of)
90714	Clear Creek (Township of)
16230	Coralville
16680	Cosgrove
16770	Cou Falls
91119	East Lucas (Township of)
25140	Elmira
91479	Fremont (Township of)
29325	Frytown
91599	Graham (Township of)

<b>FIPS ID</b>	<b>Name</b>
91836	Hardin (Township of)
36345	Hills (CIRC name Old Mans Creek Bridge)
92077	Iowa City
38595	Iowa City
92078	Iowa City (Township of)
92229	Jefferson (Township of)
39720	Joetown (Amish)
92463	Liberty (Township of)
92562	Lincoln (Township of)
46335	Lone Tree
92766	Madison (Township of)
51825	Mid River
92973	Monroe (Township of)
54210	Morse
56380	Newport
93093	Newport (Township of)
57360	North Liberty
58035	Oakdale (State Sanatorium)
58485	Oasis
58845	Old Mans Creek Bridge (CIRC Hills)
60645	Oxford
93249	Oxford (Township of)
93285	Penn (Township of)

<b>FIPS ID</b>	<b>Name</b>
93417	Pleasant Valley (Township of)
67395	River Junction
93789	Scott (Township of)
93831	Sharon (Township of)
72030	Sharon Center
72840	Shueyville
73875	Solon
76530	Sutleff
76575	Sutliff
76890	Swisher
78060	Tiffin
79365	Twin View Heights
94224	Union (Township of)
79725	University
79770	University Heights
80660	Vernon
94515	Washington (Township of)
94686	West Lucas (Township of)
86025	Williamstown (Frytown)
86160	Windham
	<b>Jones County</b>
01765	Amber
01990	Anamosa

<b>FIPS ID</b>	<b>Name</b>
10405	Canton
11305	Cascade
90510	Cass (Township of)
90519	Castle Grove (Township of)
12225	Center Junction
90684	Clay (Township of)
13775	Clay Mills
18185	Dales Ford
23900	Eby's Mill
24120	Edinburg
26625	Fairview
91296	Fairview (Township of)
91761	Greenfield (Township of)
33690	Hale
91803	Hale (Township of)
92133	Jackson (Township of)
43230	Langworthy
92725	Lovell (Township of)
92769	Madison (Township of)
49845	Martelle
47985	McGargels Ford
53625	Monticello
54030	Morley
56390	Newport

<b>FIPS ID</b>	<b>Name</b>
58980	Olin
59250	Onslow
93252	Oxford (Township of)
60690	Oxford Junction
60735	Oxford Mills
93600	Richland (Township of)
93687	Rome (Township of)
71220	Scotch Grove
93765	Scotch Grove (Township of)
74690	Springhole
75540	Stone City
77330	Temple Hill
94518	Washington (Township of)
94611	Wayne (Township of)
87240	Wyoming
94794	Wyoming (Township of)
	<b>Keokuk County</b>
90009	Adams (Township of)
90213	Benton (Township of)
90717	Clear Creek (Township of)
14790	Coal Creek
19855	Delta
91113	East Lancaster (Township of)

<b>FIPS ID</b>	<b>Name</b>
91233	English River (Township of)
30540	Gibson
34545	Harper
35445	Hayesville
35670	Hedrick
92136	Jackson (Township of)
40980	Keota
41070	Keswick
41475	Kinross
92337	Lafayette (Township of)
43250	Lanscaster
92466	Liberty (Township of)
49935	Martinsburg
57225	North English
59070	Ollie
61995	Pekin
93342	Plank (Township of)
93489	Prairie (Township of)
66720	Richland
93603	Richland (Township of)
73110	Sigourney
93888	Sigourney (Township of)
74055	South English
94014	Steady Run (Township of)

<b>FIPS ID</b>	<b>Name</b>
77025	Talleyrand
77835	Thornburg
94317	Van Buren (Township of)
94428	Warren (Township of)
94521	Washington (Township of)
83055	Webster
94680	West Lancaster (Township of)
84900	What Cheer
85170	White Pigeon
	<b>Kossuth County</b>
90037	Algona
01135	Algona
90038	Algona (Township of)
04420	Bancroft
90387	Buffalo (Township of)
09685	Burt
90417	Burt (Township of)
90855	Cresco (Township of)
91095	Eagle (Township of)
27210	Fenton
91332	Fenton (Township of)
29415	Galbraith
91521	Garfield (Township of)

<b>FIPS ID</b>	<b>Name</b>
30345	Gerled
91563	German (Township of)
30405	German Valley
91668	Grant (Township of)
91767	Greenwood (Township of)
34230	Hanna
91866	Harrison (Township of)
91905	Hebron (Township of)
36570	Hobarton
38955	Irvington
92082	Irvington (Township of)
40305	Keller
42825	Lakota
44130	Ledyard
92394	Ledyard (Township of)
92565	Lincoln (Township of)
46290	Lone Rock
46650	Lotts Creek
92721	Lotts Creek (Township of)
47370	Lu Verne (corporate name for Luverne)
92730	Lu Verne (Township of)
47415	Luverne (corporate name Lu Verne)
93426	Plum Creek (Township of)

<b>FIPS ID</b>	<b>Name</b>
93459	Portland (Township of)
93492	Prairie (Township of)
93537	Ramsey (Township of)
93636	Riverdale (Township of)
71535	Seneca
93810	Seneca (Township of)
71715	Sexton
93864	Sherman (Township of)
93981	Springfield (Township of)
69825	St. Benedict
70005	St. Joseph
75285	Stevens
94071	Swea (Township of)
76755	Swea City
78330	Titonka
94227	Union (Township of)
83415	Wesley
94644	Wesley (Township of)
83550	West Bend
85260	Whittemore
94731	Whittemore (Township of)
	<b>Lee County</b>
02710	Argyle

<b>FIPS ID</b>	<b>Name</b>
07120	Bluff Park
90546	Cedar (Township of)
12810	Charleston
90647	Charleston (Township of)
17625	Croton
19990	Denmark
90966	Denmark (Township of)
90981	Des Moines (Township of)
21810	Donnellson
28605	Fort Madison
28740	Franklin
91407	Franklin (Township of)
29505	Galland
91743	Green Bay (Township of)
33825	Hamill (Mount Hamill)
91869	Harrison (Township of)
37335	Houghton
92139	Jackson (Township of)
92232	Jefferson (Township of)
92311	Keokuk
40845	Keokuk
92312	Keokuk (Township of)
92772	Madison (Township of)
92856	Marion (Township of)

<b>FIPS ID</b>	<b>Name</b>
53760	Montrose
93000	Montrose (Township of)
53805	Mooar
54615	Mount Hamill
55875	New Boston
62805	Pilot Grove
93402	Pleasant Ridge (Township of)
64695	Primrose
70455	Sand Prairie Station (Vincennes)
70545	Sandusky
70860	Sawyer
72025	Sharon
73970	South Augusta
70185	St. Paul
76215	Summitville
94320	Van Buren (Township of)
80850	Viele
81030	Vincennes
94524	Washington (Township of)
84585	West Point
94695	West Point (Township of)
84855	Wever
	<b>Linn County</b>

<b>FIPS ID</b>	<b>Name</b>
01000	Alburnett
01155	Alice
06175	Bertram
90228	Bertram (Township of)
06445	Beverly
90312	Boulder (Township of)
90360	Brown (Township of)
90390	Buffalo (Township of)
11845	Cedar Hills
12000	Cedar Rapids
90577	Cedar Rapids
12015	Cedar Rapids Municipal Airport
12270	Center Point
12495	Central City
90738	Clinton (Township of)
14925	Coggon
90774	College (Township of)
16905	Covington
17040	Crandic
17310	Crestwood
17400	Crestwood Acres
22170	Dove
25365	Ely
26400	Fairfax

<b>FIPS ID</b>	<b>Name</b>
91269	Fairfax (Township of)
91326	Fayette (Township of)
27615	First Street
91410	Franklin (Township of)
91671	Grant (Township of)
35940	Hiawatha
38190	Indian Creek
92142	Jackson (Township of)
39960	Jordans Grove
40800	Kenwood Park
42060	Konigsmark
42375	Lafayette
45300	Lincolnway Village
92649	Linn (Township of)
45525	Linn Junction
45615	Lisbon
46695	Louisa
47685	Lyons
92796	Maine (Township of)
49485	Marion
92859	Marion (Township of)
51960	Midway
92976	Monroe (Township of)
54840	Mount Vernon

<b>FIPS ID</b>	<b>Name</b>
55900	New Buffalo
57555	Northwest
60150	Otis
93237	Otter Creek (Township of)
61230	Palo
61455	Paralta
61545	Paris
62940	Pinney
64425	Prairieburg
93525	Putnam (Township of)
93538	Rapids (Township of)
67800	Robins
68450	Rogers
72120	Shaver
93987	Spring Grove (Township of)
74775	Springville
78420	Toddville
79005	Troy Mills
80760	Vernon View
81255	Viola
81525	Waconia
81840	Walford
81885	Walker
94527	Washington (Township of)

<b>FIPS ID</b>	<b>Name</b>
82605	Waubeek
83955	Western
84000	Western College (Western)
85350	Whittier
87105	Worthington Acres
	<b>Louisa County</b>
09775	Cairo
15375	Columbus City
90792	Columbus City (Township of)
15420	Columbus Junction
90807	Concord (Township of)
16725	Cotter
91170	Eliot (Township of)
91218	Elm Grove (Township of)
25230	Elrick
25245	Elrick Junction
29055	Fredonia
31125	Gladwin
32115	Grandview
91620	Grandview (Township of)
92235	Jefferson (Township of)
44715	Letts
49710	Marsh

<b>FIPS ID</b>	<b>Name</b>
92874	Marshall (Township of)
54120	Morning Sun
393018	Morning Sun (Township of)
56405	Newport
93159	Oakland (Township of)
58395	Oakville
93465	Port Louisa (Township of)
78505	Toolesboro
94230	Union (Township of)
82200	Wapello
94416	Wapello (Township of)
84247	West Keithsburg
87195	Wyman
	<b>Lucas County</b>
05520	Belinda
90216	Benton (Township of)
90549	Cedar (Township of)
90643	Chariton
12720	Chariton
90644	Chariton (Township of)
20125	Derby
91230	English (Township of)
33345	Gunwald

<b>FIPS ID</b>	<b>Name</b>
38350	Indianola Junction
92145	Jackson (Township of)
43545	Last Chance
92469	Liberty (Township of)
92568	Lincoln (Township of)
47100	Lucas
55830	Newbern
57810	Norwood
58260	Oakley
59080	Olmitz
93240	Otter Creek (Township of)
93366	Pleasant (Township of)
65070	Purdy
69285	Russell
78275	Tipperary
94233	Union (Township of)
94431	Warren (Township of)
94530	Washington (Township of)
94713	Whitebreast (Township of)
85935	Williamson
	<b>Lyon County</b>
90051	Allison (Township of)
01675	Alvord

<b>FIPS ID</b>	<b>Name</b>
05725	Beloit
90579	Centennial (Township of)
90735	Cleveland (Township of)
90873	Dale (Township of)
21900	Doon
91014	Doon (Township of)
24240	Edna
91164	Elgin (Township of)
91524	Garfield (Township of)
30225	George
32250	Granite
91674	Grant (Township of)
38415	Inwood
41745	Klondike
43410	Larchwood
92385	Larchwood (Township of)
44670	Lester
92436	Liberal (Township of)
45795	Little Rock
92697	Logan (Township of)
92742	Lyon (Township of)
2925	Midland (Township of)
93606	Richland (Township of)
93642	Riverside (Township of)

<b>FIPS ID</b>	<b>Name</b>
93660	Rock (Township of)
68160	Rock Rapids
93915	Sioux (Township of)
94707	Wheeler (Township of)
	<b>Madison County</b>
04600	Barney
06490	Bevington
90611	Center (Township of)
14630	Clucas
90846	Crawford (Township of)
91044	Douglas (Township of)
23340	Earlham
23790	East Peru (corporate name for Peru)
91614	Grand River (Township of)
34140	Hanley
92148	Jackson (Township of)
92238	Jefferson (Township of)
92406	Lee (Township of)
92571	Lincoln (Township of)
48180	Macksburg
92775	Madison (Township of)
51690	Middle River
92979	Monroe (Township of)

<b>FIPS ID</b>	<b>Name</b>
93165	Ohio (Township of)
58865	Old Peru
61860	Patterson
93288	Penn (Township of)
62490	Peru (corporate name East Peru)
63165	Pitzer
93792	Scott (Township of)
93942	South (Township of)
69915	St. Charles
79140	Truro
79250	Turro
94236	Union (Township of)
94404	Walnut (Township of)
83100	Webster
94626	Webster (Township of)
86340	Winear
94765	Winterset
86520	Winterset
	<b>Mahaska County</b>
90012	Adams (Township of)
04555	Barnes City
05050	Beacon
05565	Bellefountain

<b>FIPS ID</b>	<b>Name</b>
90255	Black Oak (Township of)
11620	Cedar
90552	Cedar (Township of)
17420	Cricket
91110	East Des Moines (Township of)
23970	Eddyville
25950	Evans
26040	Evans Junction
26110	Eveland
29190	Fremont
91527	Garfield (Township of)
30990	Givin
91872	Harrison (Township of)
38145	Indianapolis
92241	Jefferson (Township of)
40890	Keomah Village
42240	Lacey
42780	Lakonta
44310	Leighton
92574	Lincoln (Township of)
92778	Madison (Township of)
92982	Monroe (Township of)
56460	New Sharon
59025	Olivet

<b>FIPS ID</b>	<b>Name</b>
59925	Oskaloosa
93218	Oskaloosa
93219	Oskaloosa (Township of)
62085	Peoria
93396	Pleasant Grove (Township of)
93495	Prairie (Township of)
93609	Richland (Township of)
68700	Rose Hill
93795	Scott (Township of)
93969	Spring Creek (Township of)
74770	Spring Valley
76980	Taintor
79050	Truax (Lakonta)
94239	Union (Township of)
79635	Union Mills
79815	University Park
94659	West Des Moines (Township of)
94722	White Oak (Township of)
85755	William Penn College
87150	Wright
	<b>Marion County</b>
03565	Attica
04890	Bauer

<b>FIPS ID</b>	<b>Name</b>
09730	Bussey
10065	Caloma
12540	Central College
90687	Clay (Township of)
15330	Columbia
18210	Dallas
90882	Dallas (Township of)
21785	Donnelley
21855	Donnelly
23025	Durham
27795	Flagler
91413	Franklin (Township of)
31685	Gosport
33870	Hamilton
34860	Harvey
92028	Indiana (Township of)
42015	Knoxville
92328	Knoxville (Township of)
92376	Lake Prairie (Township of)
92472	Liberty (Township of)
50070	Marysville
50925	Melcher
50935	Melcher-Dallas
55605	Nepas

<b>FIPS ID</b>	<b>Name</b>
55830	Newbern
60195	Otley
61005	Painted Rocks
61680	Park Hills
62040	Pella
62400	Pershing
93399	Pleasant Grove (Township of)
63750	Pleasantville
93558	Red Rock (Township of)
66225	Red Rock Lakeview
94041	Summit (Township of)
76665	Swan
78690	Tracy
94242	Union (Township of)
94533	Washington (Township of)
	<b>Marshall County</b>
00955	Albion
04465	Bangor
90117	Bangor (Township of)
08620	Bromley
14160	Clemons (Clemons Grove)
14205	Clemons Grove (Clemons)
21450	Dillon

<b>FIPS ID</b>	<b>Name</b>
22665	Dunbar
91146	Eden (Township of)
24015	Edenville
27255	Ferguson
30900	Gilman
32925	Green Mountain
91749	Greencastle (Township of)
35220	Haverhill
92070	Iowa (Township of)
92244	Jefferson (Township of)
42915	LaMoille
43680	Laurel
44220	Le Grand
92412	Le Grand (Township of)
92475	Liberty (Township of)
45660	Liscomb
92658	Liscomb (Township of)
92700	Logan (Township of)
47265	Luray
49440	Marietta
92838	Marietta (Township of)
92862	Marion (Township of)
92877	Marshall (Township of)
49755	Marshalltown

<b>FIPS ID</b>	<b>Name</b>
50880	Melbourne
52725	Minerva
92952	Minerva (Township of)
52770	Minerva Jct.
53250	Moningers
62715	Pickering
64380	Powerville
65190	Quarry
66540	Rhodes
69780	St. Anthony
75135	State Center
94011	State Center (Township of)
94104	Taylor (Township of)
94116	Timber Creek (Township of)
80310	Van Cleve
94356	Vienna (Township of)
94536	Washington (Township of)
86765	Wolf Lake Addition
	<b>Mills County</b>
90072	Anderson (Township of)
04350	Balfour
09630	Burr Oak
90612	Center (Township of)

<b>FIPS ID</b>	<b>Name</b>
13665	Clark
14360	Climax
90933	Deer Creek (Township of)
25500	Emerson
28200	Folsom
31350	Glenwood
91575	Glenwood (Township of)
34995	Hastings
35715	Henderson
36415	Hillsdale
92031	Indian Creek (Township of)
92043	Ingraham (Township of)
92745	Lyons (Township of)
48720	Malvern
92809	Malvern
92810	Malvern (Township of)
52635	Mineola
93147	Oak (Township of)
60815	Pacific City
60825	Pacific Junction
93354	Plattville (Township of)
93540	Rawles (Township of)
73155	Silver City
93897	Silver Creek (Township of)

<b>FIPS ID</b>	<b>Name</b>
73870	Solomon
93741	St. Marys (Township of)
75765	Strahan
76935	Tabor
85035	White Cloud
94719	White Cloud (Township of)
	<b>Mitchell County</b>
04285	Bailey
08850	Brownville
90411	Burr Oak (Township of)
11035	Carpenter
90555	Cedar (Township of)
91047	Douglas (Township of)
91116	East Lincoln (Township of)
37830	Hustad
92268	Jenkins (Township of)
92478	Liberty (Township of)
45705	Little Cedar
48045	McIntire
51330	Meroa
51510	Meyer
52905	Mitchell
92955	Mitchell (Township of)

<b>FIPS ID</b>	<b>Name</b>
53085	Mona (Hustad)
56190	New Haven
93075	Newburg (Township of)
59520	Orchard
59745	Osage
93210	Osage (Township of)
60285	Otranto
93225	Otranto (Township of)
66585	Riceville
93663	Rock (Township of)
67935	Rock Creek
69735	St. Ansgar
93726	St. Ansgar (Township of)
74820	Stacyville
94002	Stacyville (Township of)
74865	Stacyville Junction
78465	Toeterville
94245	Union (Township of)
94614	Wayne (Township of)
94683	West Lincoln (Township of)
84405	West Mitchell
	<b>Monona County</b>
00850	Albaton

<b>FIPS ID</b>	<b>Name</b>
90084	Ashton (Township of)
90192	Belvidere (Township of)
06940	Blencoe
11530	Castana
90615	Center (Township of)
90828	Cooper (Township of)
91299	Fairview (Township of)
91416	Franklin (Township of)
91677	Grant (Township of)
32340	Grant Center
92283	Jordan (Township of)
40560	Kennebec
92307	Kennebec (Township of)
92355	Lake (Township of)
92577	Lincoln (Township of)
92817	Maple (Township of)
49170	Mapleton
53850	Moorhead
59092	Omaha Indian Reservation
93175	Onawa
59115	Onawa
93176	Onawa (Township of)
68385	Rodney
93867	Sherman (Township of)

<b>FIPS ID</b>	<b>Name</b>
93918	Sioux (Township of)
73785	Soldier
93939	Soldier (Township of)
93996	Spring Valley (Township of)
93735	St. Clair (Township of)
78015	Ticonic
79185	Turin
79995	Ute
94671	West Fork (Township of)
85215	Whiting
94749	Willow (Township of)
	<b>Monroe County</b>
00910	Albia
03925	Avery
90285	Bluff Creek (Township of)
08380	Bridgeport
08635	Brompton
09200	Bucknell
09760	Buxton
90558	Cedar (Township of)
15890	Consol
23970	Eddyville
28640	Foster

<b>FIPS ID</b>	<b>Name</b>
91419	Franklin (Township of)
28945	Frederic
30270	Georgetown
91800	Guilford (Township of)
36525	Hiteman
36590	Hocking
92151	Jackson (Township of)
46050	Lockman
46830	Lovilia
92812	Mantua (Township of)
50475	Maxon
50970	Melrose
51530	Miami
92985	Monroe (Township of)
93369	Pleasant (Township of)
66500	Rexfield
71480	Selection
72255	Shehan Siding
94140	Troy (Township of)
79385	Tyrone
94248	Union (Township of)
94296	Urbana (Township of)
82240	Ward
94617	Wayne (Township of)

<b>FIPS ID</b>	<b>Name</b>
83235	Weller
	<b>Montgomery County</b>
14880	Coburg
91050	Douglas (Township of)
91104	East (Township of)
24915	Elliott
91380	Frankfort (Township of)
91530	Garfield (Township of)
32295	Grant
91680	Grant (Township of)
35400	Hawthorne
92580	Lincoln (Township of)
48315	McPherson
54255	Morton Mills (Mortons Mill)
54300	Mortons Mill
93327	Pilot Grove (Township of)
66135	Red Oak
93555	Red Oak (Township of)
71190	Sciola
93798	Scott (Township of)
93870	Sherman (Township of)
75000	Stanton
75225	Stennett

<b>FIPS ID</b>	<b>Name</b>
77470	Tenville
77475	Tenville Junction
80985	Villisca
81795	Wales
81950	Wallin
94539	Washington (Township of)
94647	West (Township of)
	<b>Muscatine County</b>
02575	Ardon
03385	Atalissa
90279	Bloomington (Township of)
90561	Cedar (Township of)
15600	Cone (Conesville)
15645	Conesville (Cone)
17085	Cranston
17715	Culver
22980	Durant
26580	Fairport
29280	Fruitland
91491	Fruitland (Township of)
91494	Fulton (Township of)
91590	Goshen (Township of)
33600	Hahns Switch

<b>FIPS ID</b>	<b>Name</b>
92358	Lake (Township of)
52005	Midway Beach
53715	Montpelier
92997	Montpelier (Township of)
54345	Moscow
93027	Moscow (Township of)
55110	Muscatine
93048	Muscatine (Township of)
56010	New Era
56685	Nichols
93204	Orono (Township of)
93318	Pike (Township of)
63660	Pleasant Prairie
93816	Seventy-Six (Township of)
74100	South Muscatine
75450	Stockton
94074	Sweetland (Township of)
76845	Sweetland Center
81705	Walcott
94419	Wapsinonoc (Township of)
84315	West Liberty
86070	Wilton
94758	Wilton (Township of)
86115	Wilton Junction

<b>FIPS ID</b>	<b>Name</b>
	<b>O'Brien County</b>
02530	Archer
90108	Baker (Township of)
90438	Caledonia (Township of)
10090	Calumet
90477	Carroll (Township of)
90618	Center (Township of)
90876	Dale (Township of)
91356	Floyd (Township of)
91422	Franklin (Township of)
30090	Gaza
30360	Germantown
91683	Grant (Township of)
34725	Hartley
91884	Hartley (Township of)
91938	Highland (Township of)
92481	Liberty (Township of)
92583	Lincoln (Township of)
49155	Mapleside
53220	Moneta
93174	Omega (Township of)
61905	Paullina
62690	Philby

<b>FIPS ID</b>	<b>Name</b>
63795	Plessis
64650	Primghar
67305	Ritter
70410	Sanborn
72390	Sheldon
94044	Summit (Township of)
76485	Sutherland
94251	Union (Township of)
94599	Waterman (Township of)
	<b>Osceola County</b>
01225	Allendorf
90054	Allison (Township of)
03295	Ashton
90111	Baker (Township of)
14565	Cloverdale
91302	Fairview (Township of)
91572	Gilman (Township of)
91584	Goewey (Township of)
34635	Harris
91875	Harrison (Township of)
91968	Holman (Township of)
91986	Horton (Township of)
50565	May City

<b>FIPS ID</b>	<b>Name</b>
51060	Melvin
58530	Ocheyedan
93162	Ocheyedan (Township of)
72975	Sibley
94365	Viola (Township of)
94755	Wilson (Township of)
	<b>Page County</b>
90066	Amity (Township of)
06265	Bethesda
06580	Bingham
06895	Blanchard
07930	Braddyville
90369	Buchanan (Township of)
13575	Clarinda
14970	Coin
90765	Colfax (Township of)
15105	College Springs
91053	Douglas (Township of)
91125	East River (Township of)
25815	Essex
91482	Fremont (Township of)
91686	Grant (Township of)
91848	Harlan (Township of)

<b>FIPS ID</b>	<b>Name</b>
35355	Hawleyville
35760	Hepburn
92586	Lincoln (Township of)
93021	Morton (Township of)
93054	Nebraska (Township of)
93123	Nodaway (Township of)
57045	Northboro
57765	Norwich
57990	Nyman
60975	Page Center
93315	Pierce (Township of)
71895	Shambaugh
72525	Shenandoah
94086	Tarkio (Township of)
94305	Valley (Township of)
94542	Washington (Township of)
87420	Yorktown
	<b>Palo Alto County</b>
04105	Ayrshire
90309	Booth (Township of)
17895	Curlew
17985	Cylinder
20080	Depew

<b>FIPS ID</b>	<b>Name</b>
91203	Ellington (Township of)
25590	Emmetsburg
91224	Emmetsburg (Township of)
91287	Fairfield (Township of)
26645	Fairville
91335	Fern Valley (Township of)
91449	Freedom (Township of)
31800	Graettinger
91725	Great Oak (Township of)
91941	Highland (Township of)
92025	Independence (Township of)
92718	Lost Island (Township of)
46560	Lost Island Lake
48585	Mallard
93060	Nevada (Township of)
59880	Osgood
68340	Rodman
93714	Rush Lake (Township of)
69330	Ruthven
93906	Silver Lake (Township of)
94338	Vernon (Township of)
94407	Walnut (Township of)
83550	West Bend
94650	West Bend (Township of)

<b>FIPS ID</b>	<b>Name</b>
	<b>Plymouth County</b>
00415	Adaville
00775	Akron
90060	America (Township of)
08875	Brunsville
16950	Craig
18300	Dalton
91167	Elgin (Township of)
91188	Elkhorn (Township of)
91443	Fredonia (Township of)
91533	Garfield (Township of)
91689	Grant (Township of)
91821	Hancock (Township of)
91908	Henry (Township of)
36480	Hinton
92007	Hungerford (Township of)
39270	James
92274	Johnson (Township of)
41385	Kingsley
44400	Le Mars
92484	Liberty (Township of)
92589	Lincoln (Township of)
92865	Marion (Township of)

<b>FIPS ID</b>	<b>Name</b>
92904	Meadow (Township of)
51375	Merrill
52365	Millnerville
55650	Neptune
58950	O'Leary
60780	Oyens
93303	Perry (Township of)
93429	Plymouth (Township of)
93462	Portland (Township of)
93507	Preston (Township of)
66405	Remsen
93564	Remsen (Township of)
69160	Ruble
71580	Seney
93921	Sioux (Township of)
94005	Stanton (Township of)
75945	Struble
94254	Union (Township of)
79590	Union Center
94545	Washington (Township of)
84270	West Le Mars (Dalton)
84090	Westfield
94665	Westfield (Township of)
87135	Wren

<b>FIPS ID</b>	<b>Name</b>
	<b>Pocahontas County</b>
90183	Bellville (Township of)
90564	Cedar (Township of)
90621	Center (Township of)
90740	Clinton (Township of)
90768	Colfax (Township of)
16185	Cora
90867	Cummins (Township of)
90984	Des Moines (Township of)
91074	Dover (Township of)
28245	Fonda
91536	Garfield (Township of)
30945	Gilmore City
91692	Grant (Township of)
35130	Havelock
92361	Lake (Township of)
43725	Laurens
92592	Lincoln (Township of)
92670	Lizard (Township of)
92880	Marshall (Township of)
61050	Palmer
63840	Plover
63975	Pocahontas

FIPS ID	Name
93474	Powhatan (Township of)
65865	Rea
67080	Ridotto
93685	Rolfe
68520	Rolfe
93690	Roosevelt (Township of)
93873	Sherman (Township of)
94068	Swan Lake (Township of)
80535	Varina
82245	Ware
84810	Westview
	<b>Polk County</b>
00325	Acme
00535	Adelphi
01180	Alleman
90042	Allen (Township of)
01630	Altoona
02170	Andrews
02305	Ankeny
03225	Ashawa
04015	Avon
04060	Avon Lake
90168	Beaver (Township of)

FIPS ID	Name
05230	Beaverdale
06220	Berwick
90270	Bloomfield (Township of)
07390	Bondurant
07705	Bowsher
90456	Camp (Township of)
10315	Camp Dodge (Military Reservation)
10290	Campbell
10335	Canary Lake
10495	Capital Heights
10540	Capitol Heights
10675	Carbondale
10765	Carlisle
10945	Carney
90690	Clay (Township of)
14520	Clive
14610	Clover Hills
15285	Colonial Village
15510	Commerce
15915	Consumers Switch
17355	Crestwood
17445	Crocker
90858	Crocker (Township of)
90951	Delaware (Township of)

<b>FIPS ID</b>	<b>Name</b>
21000	Des Moines
90987	Des Moines (Township of)
21015	Des Moines Municipal Airport
91056	Douglas (Township of)
23655	East Des Moines
23700	East Fourteenth Street
24735	Elkhart
91185	Elkhart (Township of)
25680	Enterprise
27030	Farrar
27840	Flint Junction
28470	Fort Des Moines
91371	Four Mile (Township of)
91425	Franklin (Township of)
31170	Glake
31935	Grand
33060	Grimes
34950	Hastie
35850	Herrold
35965	Hickman Road
36165	Highland Park
38325	Indianola Heights
39090	Ivy
92247	Jefferson (Township of)

<b>FIPS ID</b>	<b>Name</b>
39765	Johnston
39810	Johnston Station
92409	Lee (Township of)
44775	Levey
92595	Lincoln (Township of)
46535	Loring
46875	Lovington
47235	Lundstrom Heights
92781	Madison (Township of)
49665	Marquisville
47910	McCoy
52320	Millman
52950	Mitchellville
57855	Norwoodville
58305	Oak Park
59340	Oralabor
63435	Plaza Hills
63525	Pleasant Hill
64020	Polk City
66900	Rider
67260	Rising Sun
69240	Runnells
70635	Santiago
70905	Saydel

<b>FIPS ID</b>	<b>Name</b>
70950	Saylor
93759	Saylor (Township of)
70995	Saylorville
93762	Saylorville Reservoir (Unorganized Territory of)
72345	Sheldahl
74010	South Des Moines
76710	Swanwood
94257	Union (Township of)
79860	University Place
79950	Urbandale
94308	Valley (Township of)
80220	Valley Junction
94410	Walnut (Township of)
94548	Washington (Township of)
94629	Webster (Township of)
83910	West Des Moines
85125	White Oak
86205	Windsor
86250	Windsor Heights
86940	Woodland Hills
87465	Youngstown
	<b>Pottawattamie County</b>
03205	Ascot

<b>FIPS ID</b>	<b>Name</b>
03970	Avoca
90174	Belknap (Township of)
05870	Bentley
07435	Boomer
90297	Boomer (Township of)
11170	Carson
90483	Carson (Township of)
11215	Carter Lake
90624	Center (Township of)
12965	Chautauqua
13440	Clara
16860	Council Bluffs
17175	Crescent
90852	Crescent (Township of)
21585	Dodge Park
22575	Dumfries
24150	Edison
26535	Fairmount Park
28785	Franklin
91545	Garner (Township of)
30855	Gilliatt
31260	Glendale Acres
91788	Grove (Township of)
34005	Hancock

<b>FIPS ID</b>	<b>Name</b>
34050	Hancock Junction
91839	Hardin (Township of)
91896	Hazel Dell (Township of)
37020	Honey Creek
38235	Indian Creek
39045	Island Park
92187	James (Township of)
92292	Kane (Township of)
92298	Keg Creek (Township of)
92325	Knox (Township of)
92364	Lake (Township of)
42510	Lake Manawa
92388	Layton (Township of)
92433	Lewis (Township of)
92598	Lincoln (Township of)
46380	Longfellow
46785	Loveland
47955	Macedonia
92748	Macedonia (Township of)
48405	Madison
48765	Manawa (Lake Manawa)
47865	McClelland
52590	Minden
92949	Minden (Township of)

<b>FIPS ID</b>	<b>Name</b>
55560	Neola
93057	Neola (Township of)
93135	Norwalk (Township of)
58080	Oakland
62510	Peter
62895	Pinehurst
93372	Pleasant (Township of)
64965	Prospect Park
65270	Quick
67755	Roberts Park
93678	Rockford (Township of)
68610	Roosevelt
72300	Shelby
93900	Silver Creek (Township of)
77170	Taylor
78240	Tinley
78825	Treynor
79320	Twin City Plaza Addition
79500	Underwood
94311	Valley (Township of)
82065	Walnut
94551	Washington (Township of)
94605	Waveland (Township of)
83640	West Broadway

<b>FIPS ID</b>	<b>Name</b>
84495	Weston
94785	Wright (Township of)
94809	York (Township of)
87400	York Center
	<b>Poweshiek County</b>
04555	Barnes City
90141	Bear Creek (Township of)
08695	Brooklyn
10990	Carnforth
90660	Chester (Township of)
19495	Deep River
90930	Deep River (Township of)
22370	Dresden
26220	Ewart
91695	Grant (Township of)
91774	Grinnell
33105	Grinnell
91775	Grinnell (Township of)
33285	Guernsey
34770	Hartwick
36660	Holiday Lake
92154	Jackson (Township of)
92250	Jefferson (Township of)

<b>FIPS ID</b>	<b>Name</b>
92601	Lincoln (Township of)
92784	Madison (Township of)
48540	Malcom
92805	Malcom (Township of)
53490	Montezuma
93375	Pleasant (Township of)
93801	Scott (Township of)
71355	Searsboro
72570	Sheridan
93846	Sheridan (Township of)
94026	Sugar Creek (Township of)
78125	Tilton
94260	Union (Township of)
80805	Victor
94434	Warren (Township of)
94554	Washington (Township of)
	<b>Ringgold County</b>
90087	Athens (Township of)
05095	Beaconsfield
05905	Benton
90219	Benton (Township of)
13980	Clearfield
90741	Clinton (Township of)

<b>FIPS ID</b>	<b>Name</b>
19810	Delphos
21270	Diagonal
25005	Ellston
91698	Grant (Township of)
92253	Jefferson (Township of)
40350	Kellerton
42000	Knowlton
92487	Liberty (Township of)
92604	Lincoln (Township of)
92724	Lotts Creek (Township of)
48675	Maloy
92922	Middle Fork (Township of)
92988	Monroe (Township of)
54480	Mount Ayr
93034	Mount Ayr
93035	Mount Ayr (Township of)
93432	Poe (Township of)
66000	Redding
93567	Rice (Township of)
93630	Riley (Township of)
71940	Shannon City
78195	Tingley
94119	Tingley (Township of)
94263	Union (Township of)

<b>FIPS ID</b>	<b>Name</b>
94557	Washington (Township of)
94602	Waubonsie (Township of)
	<b>Sac County</b>
03610	Auburn
90321	Boyer Valley (Township of)
10855	Carnarvon
90567	Cedar (Township of)
90744	Clinton (Township of)
90819	Cook (Township of)
90825	Coon Valley (Township of)
90954	Delaware (Township of)
91059	Douglas (Township of)
23475	Early
91149	Eden (Township of)
91251	Eureka (Township of)
32385	Grant City
92157	Jackson (Township of)
42690	Lake View
92430	Levey (Township of)
47730	Lytton
55515	Nemaha
58575	Odebolt
93612	Richland (Township of)

<b>FIPS ID</b>	<b>Name</b>
93723	Sac (Township of)
69645	Sac City
71085	Schaller
79455	Ulmer
94368	Viola (Township of)
82020	Wall Lake
94383	Wall Lake (Township of)
94710	Wheeler (Township of)
	<b>Scott County</b>
90048	Allens Grove (Township of)
01945	Amity
02665	Argo
06355	Bettendorf
06535	Big Rock
07075	Blue Grass
90282	Blue Grass (Township of)
09235	Buffalo
90393	Buffalo (Township of)
09325	Buffalo Heights
90429	Butler (Township of)
12450	Central
12660	Chapel Hill
90726	Cleona (Township of)

<b>FIPS ID</b>	<b>Name</b>
19000	Davenport
90893	Davenport
90894	Davenport City (Township of)
21540	Dixon
21720	Donahue
22980	Durant
23610	East Davenport
24105	Edgewood Park
24600	Eldridge
26130	Evergreen (Trailer Park)
29640	Gambrill
32430	Grant Wood
32655	Green Acres
91923	Hickory Grove (Township of)
38685	Iowana
39315	Jamestown
42420	Lake Canyada
44085	Le Claire
92391	Le Claire (Township of)
92490	Liberty (Township of)
92607	Lincoln (Township of)
45570	Linwood
45725	Little Groves
46425	Long Grove

<b>FIPS ID</b>	<b>Name</b>
50655	Maysville (Amity)
47820	McCausland
54660	Mount Joy
55245	Nahant
55940	New Dixon
56280	New Liberty
57585	Northwest
58350	Oakton
61365	Panorama Park
61725	Park View
63255	Plain View (Plainview)
63300	Plainview
63705	Pleasant Valley
93420	Pleasant Valley (Township of)
64740	Princeton
93510	Princeton (Township of)
64785	Probstei
65100	Quad Cities
66990	Ridgeview Park
67350	Riverdale
68115	Rockingham
93849	Sheridan (Township of)
78105	Tile Works
81705	Walcott

<b>FIPS ID</b>	<b>Name</b>
82155	Walnut Grove
83865	West Davenport
85620	Wildwood Camp
94764	Winfield (Township of)
	<b>Shelby County</b>
07570	Botna
90513	Cass (Township of)
90627	Center (Township of)
90693	Clay (Township of)
16320	Corley
19585	Defiance
91062	Douglas (Township of)
23385	Earling
24780	Elk Horn
91305	Fairview (Township of)
91731	Greeley (Township of)
91791	Grove (Township of)
91849	Harlan
34500	Harlan
91850	Harlan (Township of)
39000	Irwin
92160	Jackson (Township of)
39180	Jacksonville

<b>FIPS ID</b>	<b>Name</b>
92256	Jefferson (Township of)
41520	Kirkman
92610	Lincoln (Township of)
49010	Manteno
92991	Monroe (Township of)
61275	Panama
93447	Polk (Township of)
64120	Poplar
64200	Portsmouth
66090	Red Line
72300	Shelby
93834	Shelby (Township of)
77430	Tennant
94266	Union (Township of)
94560	Washington (Township of)
84540	Westphalia
94689	Westphalia (Township of)
	<b>Sioux County</b>
01585	Alton
07840	Boyden
90399	Buncombe (Township of)
90468	Capel (Township of)
10810	Carmel

<b>FIPS ID</b>	<b>Name</b>
10900	Carnes
90630	Center (Township of)
12945	Chatsworth
91098	Eagle (Township of)
91122	East Orange (Township of)
91359	Floyd (Township of)
91539	Garfield (Township of)
91701	Grant (Township of)
32475	Granville
35265	Hawarden
91965	Holland (Township of)
37290	Hospers
37515	Hull
38820	Ireton
43995	Lebanon
92613	Lincoln (Township of)
92703	Logan (Township of)
92733	Lynn (Township of)
50385	Matlock
50430	Maurice
48225	McNally
51645	Middleburg
93051	Nassau (Township of)
56235	Newkirk

<b>FIPS ID</b>	<b>Name</b>
59475	Orange City
62265	Perkins
93345	Plato (Township of)
93549	Reading (Township of)
93666	Rock (Township of)
68205	Rock Valley
93813	Settlers (Township of)
72390	Sheldon
93852	Sheridan (Township of)
93876	Sherman (Township of)
93924	Sioux (Township of)
73290	Sioux Center
94563	Washington (Township of)
94635	Welcome (Township of)
94653	West Branch (Township of)
	<b>Story County</b>
01855	Ames
07050	Bloomington
10225	Cambridge
15195	Collins
90777	Collins (Township of)
15240	Colo
27345	Fernald

<b>FIPS ID</b>	<b>Name</b>
91428	Franklin (Township of)
30630	Gilbert
91704	Grant (Township of)
91992	Howard (Township of)
37920	Huxley
92034	Indian Creek (Township of)
38550	Iowa Center
40395	Kelley
92340	Lafayette (Township of)
92616	Lincoln (Township of)
50520	Maxwell
47775	McCallsburg
51870	Midvale
92934	Milford (Township of)
55695	Nevada
93063	Nevada (Township of)
93066	New Albany (Township of)
59295	Ontario
93261	Palestine (Township of)
93615	Richland (Township of)
67860	Robison-Whitaker Acres
68475	Roland
72345	Sheldahl
93879	Sherman (Township of)

<b>FIPS ID</b>	<b>Name</b>
72750	Shipley
73515	Slater
75675	Story City
78150	Timberland Heights
94269	Union (Township of)
94437	Warren (Township of)
94566	Washington (Township of)
83175	Welch Avenue
87555	Zearing
87575	Zenorsville
	<b>Tama County</b>
09190	Buckingham
90375	Buckingham (Township of)
90474	Carlton (Township of)
90480	Carroll (Township of)
12990	Chelsea
90669	Clark (Township of)
14655	Clutier
90786	Columbia (Township of)
90864	Crystal (Township of)
21495	Dinsdale
23160	Dysart
24375	Elberon

<b>FIPS ID</b>	<b>Name</b>
30045	Garwin
91554	Geneseo (Township of)
31035	Gladbrook
31080	Gladstone
91707	Grant (Township of)
35175	Haven
35690	Helena
11944	Highland (Township of)
91995	Howard (Township of)
92037	Indian Village (Township of)
38910	Irving
45255	Lincoln
92619	Lincoln (Township of)
46430	Long Point
51440	Mesquakie Indian Settlement
53670	Montour
93180	Oneida (Township of)
93243	Otter Creek (Township of)
93306	Perry (Township of)
93618	Richland (Township of)
69600	Sac and Fox Indian Reservation
93750	Salt Creek (Township of)
93972	Spring Creek (Township of)
77115	Tama

<b>FIPS ID</b>	<b>Name</b>
94083	Tama (Township of)
78510	Toledo
94128	Toledo (Township of)
78735	Traer
81120	Vining
94812	York (Township of)
	<b>Taylor County</b>
03430	Athelstan
05365	Bedford
90171	Bedford (Township of)
90222	Benton (Township of)
06985	Blockton
09700	Bushville
90708	Clayton (Township of)
13980	Clearfield
15960	Conway
90885	Dallas (Township of)
91548	Gay (Township of)
91710	Grant (Township of)
32520	Gravity
91794	Grove (Township of)
33375	Guss
91971	Holt (Township of)

<b>FIPS ID</b>	<b>Name</b>
92163	Jackson (Township of)
92259	Jefferson (Township of)
42320	Ladoga
44490	Lenox
92883	Marshall (Township of)
92889	Mason (Township of)
51195	Merle (Merle Junction)
51285	Merle Junction
56370	New Market
93126	Nodaway (Township of)
93348	Platte (Township of)
63390	Platteville
93450	Polk (Township of)
93705	Ross (Township of)
72075	Sharpsburg
72930	Siam
94569	Washington (Township of)
	<b>Union County</b>
00595	Afton
02800	Arispe
90856	Creston
17265	Creston
90857	Creston (Township of)

<b>FIPS ID</b>	<b>Name</b>
17490	Cromwell
91011	Dodge (Township of)
91065	Douglas (Township of)
91713	Grant (Township of)
91947	Highland (Township of)
92280	Jones (Township of)
40710	Kent
92622	Lincoln (Township of)
46515	Lorimor
53235	Monette
93084	New Hope (Township of)
93351	Platte (Township of)
93378	Pleasant (Township of)
93753	Sand Creek (Township of)
71940	Shannon City
73695	Snyder
74190	Spaulding
93954	Spaulding (Township of)
77070	Talmage
77565	Thayer
94272	Union (Township of)
	<b>Van Buren County</b>
05950	Bentonsport

<b>FIPS ID</b>	<b>Name</b>
06625	Birmingham
07345	Bonaparte
90294	Bonaparte (Township of)
10450	Cantril
90570	Cedar (Township of)
90651	Chequest (Township of)
90990	Des Moines (Township of)
22035	Douds
26895	Farmington
91320	Farmington (Township of)
34645	Harrisburg
91851	Harrisburg (Township of)
91911	Henry (Township of)
92166	Jackson (Township of)
40935	Keosauqua
41205	Kilbourn
43950	Leando
44040	Lebanon
92505	Lick Creek (Township of)
52500	Milton
54750	Mount Sterling
54885	Mount Zion
63120	Pittsburg
71490	Selma

<b>FIPS ID</b>	<b>Name</b>
75405	Stockport
94275	Union (Township of)
80000	Utica
94323	Van Buren (Township of)
80670	Vernon
94341	Vernon (Township of)
94359	Village (Township of)
94572	Washington (Township of)
86150	Winchester
	<b>Wapello County</b>
90015	Adams (Township of)
00640	Agency (RR name Agency City)
90027	Agency (Township of)
00685	Agency City (RR name for Agency)
03270	Ashland
06510	Bidwell
06715	Bladensburg
06850	Blakesburg
90516	Cass (Township of)
90633	Center (Township of)
13215	Chillicothe
14340	Cliffland

<b>FIPS ID</b>	<b>Name</b>
90789	Columbia (Township of)
15575	Competine
90795	Competine (Township of)
18030	Dahlongea
90870	Dahlongea (Township of)
22530	Dudley
23970	Eddyville
24420	Eldon
27075	Farson
91737	Green (Township of)
36075	Highland (Highland Center)
91950	Highland (Township of)
36120	Highland Center (Highland)
92313	Keokuk (Township of)
41565	Kirkville
46035	Loch Burns
54975	Munterville
59670	Ormanville
60465	Ottumwa
60490	Ottumwa Industrial Airport
60510	Ottumwa Junction
93381	Pleasant (Township of)
93453	Polk (Township of)
93621	Richland (Township of)

<b>FIPS ID</b>	<b>Name</b>
69420	Rutledge
74145	South Ottumwa
94575	Washington (Township of)
	<b>Warren County</b>
00235	Ackworth
90045	Allen (Township of)
05455	Beech
90189	Belmont (Township of)
06490	Bevington
10765	Carlisle
13305	Churchville
15735	Conger
16005	Cool
17850	Cumming
32675	Greenbush
91764	Greenfield (Township of)
32835	Greenfield Plaza
34680	Hartford
38280	Indianola
92036	Indianola
92169	Jackson (Township of)
92262	Jefferson (Township of)
42285	Lacona

<b>FIPS ID</b>	<b>Name</b>
42735	Lakewood
92493	Liberty (Township of)
44940	Liberty Center
92625	Lincoln (Township of)
92652	Linn (Township of)
49890	Martensdale
50835	Medora
52455	Milo
56595	New Virginia
57675	Norwalk
59610	Orillia
93228	Otter (Township of)
61185	Palmyra
93264	Palmyra (Township of)
64830	Prole
93624	Richland (Township of)
70590	Sandyville
71265	Scotch Ridge
74685	Spring Hill
93999	Squaw (Township of)
70095	St. Marys
76125	Summerset
94278	Union (Township of)
94371	Virginia (Township of)

<b>FIPS ID</b>	<b>Name</b>
94576	Washington (Township of)
84620	West Saint Marys
94716	White Breast (Township of)
94725	White Oak (Township of)
85440	Wick
	<b>Washington County</b>
00730	Ainsworth
08470	Brighton
90339	Brighton (Township of)
90573	Cedar (Township of)
90696	Clay (Township of)
16140	Coppock
90849	Crawford (Township of)
17130	Crawfordsville
19225	Daytonville
91089	Dutch Creek (Township of)
91236	English River (Township of)
91431	Franklin (Township of)
31755	Grace Hill
34905	Haskins
91953	Highland (Township of)
92073	Iowa (Township of)
92172	Jackson (Township of)

<b>FIPS ID</b>	<b>Name</b>
40170	Kalona
44850	Lexington
92511	Lime Creek (Township of)
92868	Marion (Township of)
56750	Nira
56820	Noble
93195	Oregon (Township of)
66765	Richmond
67440	Riverside
69150	Rubio
93819	Seventy-Six (Township of)
78375	Titus
82335	Washington
94578	Washington (Township of)
83280	Wellman
83775	West Chester
	<b>Wayne County</b>
01270	Allerton
90225	Benton (Township of)
06250	Bethelhem
06310	Bethlehem
08400	Bridgeport
10180	Cambria

<b>FIPS ID</b>	<b>Name</b>
90699	Clay (Township of)
90747	Clinton (Township of)
14475	Clio
15690	Confidence
16635	Corydon
90840	Corydon (Township of)
30170	Genoa
91617	Grand River (Township of)
34815	Harvard
91998	Howard (Township of)
37605	Humeston
92175	Jackson (Township of)
92265	Jefferson (Township of)
45435	Lineville
52275	Millerton
92994	Monroe (Township of)
56640	New York
64875	Promise City
93627	Richman (Township of)
71670	Sewal
71760	Seymour
93951	South Fork (Township of)
94281	Union (Township of)
94413	Walnut (Township of)

<b>FIPS ID</b>	<b>Name</b>
94440	Warren (Township of)
94581	Washington (Township of)
94788	Wright (Township of)
	<b>Webster County</b>
04195	Badger
90102	Badger (Township of)
04645	Barnum
07545	Border Plains
08920	Brushy
09595	Burnside
90405	Burnside (Township of)
09955	Callender
13485	Clare
90702	Clay (Township of)
13935	Clayworks
14835	Coalville
90771	Colfax (Township of)
90831	Cooper (Township of)
19180	Dayton
90915	Dayton (Township of)
90936	Deer Creek (Township of)
91068	Douglas (Township of)
22755	Duncombe

<b>FIPS ID</b>	<b>Name</b>
91191	Elkhorn (Township of)
26085	Evanston
26940	Farnhamville
28110	Flugstad
28515	Fort Dodge
91370	Fort Dodge
28560	Fort Dodge Junction
28575	Fort Dodge Municipal Airport
91497	Fulton (Township of)
31710	Gowrie
91596	Gowrie (Township of)
33510	Gypsum
34410	Harcourt
91842	Hardin (Township of)
38370	Industry
92178	Jackson (Township of)
92277	Johnson (Township of)
39990	Judd
40125	Kalo
43320	Lanyon
44265	Lehigh
44445	Lena
92715	Lost Grove (Township of)
47190	Lundgren

<b>FIPS ID</b>	<b>Name</b>
53895	Moorland
93069	Newark (Township of)
60105	Otho
93220	Otho (Township of)
61095	Palm Grove (Palmgrove)
61140	Palmgrove
93423	Pleasant Valley (Township of)
67665	Roberts
68430	Roelyn
93684	Roland (Township of)
71815	Shady Oak
73560	Slifer
75810	Stratford
94053	Sumner (Township of)
77160	Tara
81075	Vincent
94381	Wahkonsa (Township of)
94584	Washington (Township of)
94632	Webster (Township of)
84135	West Fort Dodge
94800	Yell (Township of)
	<b>Winnebago County</b>
90396	Buffalo (Township of)

<b>FIPS ID</b>	<b>Name</b>
09280	Buffalo Center
90636	Center (Township of)
91152	Eden (Township of)
91365	Forest (Township of)
28380	Forest City
91716	Grant (Township of)
92316	King (Township of)
42555	Lake Mills
44355	Leland
92628	Lincoln (Township of)
92640	Linden (Township of)
92706	Logan (Township of)
93038	Mount Valley (Township of)
55470	Neils
93105	Newton (Township of)
93141	Norway (Township of)
65415	Rake
71040	Scarville
77745	Thompson
81130	Vinje
	<b>Winneshiek County</b>
90273	Bloomfield (Township of)
07165	Bluffton

<b>FIPS ID</b>	<b>Name</b>
90288	Bluffton (Township of)
09640	Burr Oak
90414	Burr Oak (Township of)
10045	Calmar
90447	Calmar (Township of)
90462	Canoe (Township of)
11485	Castalia
15780	Conover
19405	Decorah
90924	Decorah (Township of)
27435	Festina
28425	Fort Atkinson
28875	Frankville
91434	Frankville (Township of)
29145	Freeport
91485	Fremont (Township of)
91578	Glenwood (Township of)
35040	Haugendale
35895	Hesper
91917	Hesper (Township of)
91956	Highland (Township of)
36210	Highlandville
92181	Jackson (Township of)
39135	Jackson Junction

<b>FIPS ID</b>	<b>Name</b>
40530	Kendallville
92631	Lincoln (Township of)
46110	Locust
92787	Madison (Township of)
92937	Military (Township of)
57000	Nordness
13201	Orleans (Township of)
59970	Ossian
93384	Pleasant (Township of)
67035	Ridgeway
70725	Sattre
74370	Spillville
93984	Springfield (Township of)
94056	Sumner (Township of)
94587	Washington (Township of)
	<b>Woodbury County</b>
02350	Anthon
90078	Arlington (Township of)
90123	Banner (Township of)
08650	Bronson
10000	Call Terminal
14385	Climbing Hill
90810	Concord (Township of)

<b>FIPS ID</b>	<b>Name</b>
16545	Correctionville
17940	Cushing
18390	Danbury
91362	Floyd (Township of)
91623	Grange (Township of)
91719	Grant (Township of)
36750	Holly Springs
37200	Hornick
92295	Kedron (Township of)
92373	Lakeport (Township of)
43905	Lawton
44175	Leeds
92496	Liberty (Township of)
92661	Liston (Township of)
92667	Little Sioux (Township of)
47325	Luton
92940	Miller (Township of)
93015	Morgan (Township of)
54075	Morningside
54680	Mount Lucia
54930	Moville
93045	Moville (Township of)
57450	North Side
60240	Oto

<b>FIPS ID</b>	<b>Name</b>
93222	Oto (Township of)
60600	Owego
62760	Pierson
67485	Riverside
93669	Rock (Township of)
93720	Rutland (Township of)
70320	Salix
71625	Sergeant Bluff
72795	Shore Acres
73335	Sioux City
93925	Sioux City
93926	Sioux City (Township of)
73350	Sioux City Municipal Airport
73605	Sloan
93929	Sloan (Township of)
73650	Smithland
74595	Springdale
75495	Stock Yards
94284	Union (Township of)
94674	West Fork (Township of)
85485	Wickham Spur
94752	Willow (Township of)
94770	Wolf Creek (Township of)
94773	Woodbury (Township of)

<b>FIPS ID</b>	<b>Name</b>
	<b>Worth County</b>
90132	Barton (Township of)
07255	Bolan
08530	Bristol
90345	Bristol (Township of)
90357	Brookfield (Township of)
90891	Danville (Township of)
19520	Deer Creek
90939	Deer Creek (Township of)
27390	Fertile
91338	Fertile (Township of)
31890	Grafton
91797	Grove (Township of)
34185	Hanlontown
91881	Hartland (Township of)
39855	Joice
40665	Kensett
92310	Kensett (Township of)
92634	Lincoln (Township of)
48900	Manly
51015	Meltonville
57630	Northwood
73200	Silver Lake

<b>FIPS ID</b>	<b>Name</b>
93909	Silver Lake (Township of)
94287	Union (Township of)
	<b>Wright County</b>
05680	Belmond
90186	Belmond (Township of)
90261	Blaine (Township of)
90306	Boone (Township of)
13620	Clarion
16410	Cornelia
90918	Dayton (Township of)
22305	Dows
23250	Eagle Grove
91101	Eagle Grove (Township of)
27885	Florence
29550	Galt
31530	Goldfield
91722	Grant (Township of)

<b>FIPS ID</b>	<b>Name</b>
36795	Holmes
92076	Iowa (Township of)
92367	Lake (Township of)
92499	Liberty (Township of)
92637	Lincoln (Township of)
93144	Norway (Township of)
57900	Nuel
58755	Olaf
93387	Pleasant (Township of)
69015	Rowan
73740	Solberg
94143	Troy (Township of)
94344	Vernon (Township of)
94386	Wall Lake (Township of)
87015	Woolstock
94779	Woolstock (Township of)

	<b>Out of State</b>
99999020	Kansas

99999027	Minnesota
99999029	Missouri
99999031	Nebraska
99999046	South Dakota
99999055	Wisconsin
99999999	Not listed

## Appendix D Medication List

ID	Name
950	10% D5W
951	25% D5W
8030	2-PAM Chloride Auto Injector
4000	Acetaminophin
4002	Acetaminophin Elixar
4001	Acetaminophin Supp
6020	Activated Charcoal
100	Adenosine
4020	Afrin
200	Albuterol
201	Albuterol Inhaler metered
202	Albuterol Sulfate 2.5mg/3cc
300	Aminophylline
2010	Amiodarone (Cordarone)
7001	Amyl Nitrate
4010	ASA
400	Atropine
600	Bretylium
700	Calcium
4030	Cardizem
4040	Cordarone

ID	Name
4050	Cyanide Antidote
900	D50
901	D5W IV Solution
800	Dexameth
7004	Dexamethasone (Decadron)
1000	Diazepam (Valium)
7002	Digoxin (Lanoxin)
7003	Diltiazem (Cardizem)
1100	Diphenhydramine (Benedryl)
1200	Dobutamine
1300	Dopamine
1400	Epinephrine
1401	Epinephrine 1:10,000
1402	Epinephrine 1:1000
4060	Etomidate
4070	Fentanyl
2301	Fentanyl (Sublimaze)
4080	Flumazaniil
1500	Furosemide (Lasix)
1600	Glucagon
7005	Haloperidol (Haldol)

ID	Name
1700	Heparin
7006	Hydralazine (Apresoline)
1800	Hydrocortisone
4090	Inapsine (Droperidol)
6050	Insulin (Humulin, Novolin)
6010	Ipecac
5000	Ipratropium (Atrovent)
1900	Isoproterenol
7018	Labetalol
2000	Lidocaine
2005	Lidocaine Lubricant
2003	Lidocaine pre-mix bag
1051	Lorazepam (Ativan)
5010	Magnesium Sulfate
7008	Mannitol (Osmitrol)
2100	Meperidine
2200	Metoprolol (Alupent)
7007	Metoprolol (Lopressor)
1050	Midazolam (Versed)
2300	Morphine Sulfate
5020	Nalbuphine (Nubain)
2400	Naloxone (Narcan)
7009	Nifedipine (Procardia)

ID	Name
2502	Nitroglycerin Infusion
2600	Nitroglycerin Paste
2501	Nitroglycerin Spray
2500	Nitroglycerine Tabs
7050	Nitroprusside (Nipride)
2700	Nitrous Oxide
7010	Nitrous Oxide (Nitronox)
7011	Norepinephrine (Levophed)
6001	Normal Saline IV Solution
910	Oral Glucose
8000	Oxygen
2800	Oxytocin
7013	Pancuronium (Pavulon)
5030	Phenylephrine (Neo-Synephrine)
7017	Phenytoin (Dilantin)
2900	Procainamide
5040	Prochlorperazine (Compazine)
5050	Promethazine HCL (Phenergran)
5060	Proparacaine (Alcaine)
3101	Propranolol (Inderal)
5070	Racemic Epinephrine
7015	Rapacuronium (Rapion)
7060	Retavase

ID	Name
7016	Rocuronium (Zemuron)
6000	Saline
500	Sodium Bicarbonate
6002	Sodium Chloride Flush
7064	Sodium Pentothol
8020	Sodium Thiosulfate
5080	Solu-Medro (Methylprednisone Succinate)
6030	Sterile Water
7062	Streptokinase (Streptase)
7014	Succinylcholine (Anectine)

ID	Name
7063	Tenecteplase (TNKase)
3000	Terbutaline
5090	Thiamine
7061	Tissue Plasminogen Activator
7090	Total Parenteral Nutrition (TPN)
7012	Vecuronium (Norcuron)
3100	Verapamil
77	Other

**Note:** This list is currently listed and numbered alphabetically. This order may change with the addition or deletion of medications. Numbers will stay assigned as listed with new numbers issued for future additions.

## Appendix E

### Iowa State/County FIPS Codes

County Name	FIPS Code
Adair	19001
Adams	19003
Allamakee	19005
Appanoose	19007
Audubon	19009
Benton	19011
Black Hawk	19013
Boone	19015
Bremer	19017
Buchanan	19019
Buena Vista	19021
Butler	19023
Calhoun	19025
Carroll	19027
Cass	19029
Cedar	19031
Cerro Gordo	19033
Cherokee	19035
Chickasaw	19037
Clarke	19039
Clay	19041
Clayton	19043

County Name	FIPS Code
Clinton	19045
Crawford	19047
Dallas	19049
Davis	19051
Decatur	19053
Delaware	19055
Des Moines	19057
Dickinson	19059
Dubuque	19061
Emmet	19063
Fayette	19065
Floyd	19067
Franklin	19069
Fremont	19071
Greene	19073
Grundy	19075
Guthrie	19077
Hamilton	19079
Hancock	19081
Hardin	19083
Harrison	19085
Henry	19087

County Name	FIPS Code
Howard	19089
Humboldt	19091
Ida	19093
Iowa	19095
Jackson	19097
Jasper	19099
Jefferson	19101
Johnson	19103
Jones	19105
Keokuk	19107
Kossuth	19109
Lee	19111
Linn	19113
Louisa	19115
Lucas	19117
Lyon	19119
Madison	19121
Mahaska	19123
Marion	19125
Marshall	19127
Mills	19129
Mitchell	19131
Monona	19133
Monroe	19135

County Name	FIPS Code
Montgomery	19137
Muscatine	19139
O'Brien	19141
Osceola	19143
Page	19145
Palo Alto	19147
Plymouth	19149
Pocahontas	19151
Polk	19153
Pottawattamie	19155
Poweshiek	19157
Ringgold	19159
Sac	19161
Scott	19163
Shelby	19165
Sioux	19167
Story	19169
Tama	19171
Taylor	19173
Union	19175
Van Buren	19177
Wapello	19179
Warren	19181
Washington	19183

<b>County Name</b>	<b>FIPS Code</b>
Wayne	19185
Webster	19187
Winnebago	19189
Winneshiek	19191
Woodbury	19193
Worth	19195
Wright	19197

## Appendix F

### State FIPS Codes

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<b>FIPS ID</b>	<b>State Name</b>	<b>FIPS ID</b>	<b>State Name</b>
01	Alabama	17	Illinois
02	Alaska	18	Indiana
60	American Samoa	19	Iowa
04	Arizona	86	Jarvis Island
05	Arkansas	67	Johnston Atoll
81	Baker Island	20	Kansas
06	California	21	Kentucky
08	Colorado	89	Kingman Reef
09	Connecticut	22	Louisiana
10	Delaware	23	Maine
11	District of Columbia	68	Marshall Islands
12	Florida	24	Maryland
64	Federated States of Micronesia	25	Massachusetts
13	Georgia	26	Michigan
66	Guam		Midway Islands
15	Hawaii	27	Minnesota
84	Howland Island	28	Mississippi
16	Idaho	29	Missouri

<b>FIPS ID</b>	<b>State Name</b>	<b>FIPS ID</b>	<b>State Name</b>
30	Montana	72	Puerto Rico
76	Navassa Island	44	Rhode Island
31	Nebraska	45	South Carolina
32	Nevada	46	South Dakota
33	New Hampshire	47	Tennessee
34	New Jersey	48	Texas
35	New Mexico	74	U.S. Minor Outlying Islands
36	New York	49	Utah
37	North Carolina	50	Vermont
38	North Dakota	51	Virginia
69	Northern Mariana Islands	78	Virgin Islands of the U.S.
39	Ohio	79	Wake Island
40	Oklahoma	53	Washington
41	Oregon	54	West Virginia
70	Palau	55	Wisconsin
95	Palmyra Atoll	56	Wyoming
42	Pennsylvania		