

# South Dakota Statewide Online Ambulance Reporting

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## Data Dictionary

Prepared by:



# South Dakota EMS Patient Registry

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## **South Dakota Electronic EMS Reporting**

### **NEMESIS 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 NEMESIS 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 NEMESIS 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, NEMESIS 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. NEMESIS 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 NEMESIS databook was published and software vendor compliance testing initiated. NEMESIS and NHTSA are now requesting states to submit their data to the national EMS database.

NEMESIS 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. NEMESIS offers free compliance tools and certification process for vendors to become NEMESIS compliant. These benefits assist to eliminate the noncompliance of EMS agencies in submitting data to the SDSOAR 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

(NEMESIS 2.2.1) datasets, XML and XSD structure. Persons interested in learning more about NEMESIS or development for NEMESIS compliance should contact NEMESIS 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 NEMESIS data dictionary identifier number, identify the business rules associated with an element's submission, denote any variations from the original NEMESIS structure deemed necessary by the SDDPS. Submitting agencies are required to be using NEMESIS Gold or Silver compliance certified software with the XSD modifications noted in this document.

Submitted XML record sets will be processed against the SDSOAR 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 SDSOAR 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 SDSOAR database. Non-compliance marking is to alert the EMS agency, the software vendor, and the SDDPS of a submission that does not conform to the SDDPS 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 SDDPS to identify that the element business rules is not valid. The SDDPS will provide an XSD file for testing using the free testing software available from NEMESIS.

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 SDSOAR 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 SDSOAR 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 South Dakota 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 SDSOAR 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**

## SDSOAR 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 South Dakota Department of Public Safety (SDDPS) approved software product from commercial vendor or in-house from EMS agency. The SDDPS 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: 3 Maximum Constraint: 15
<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 South Dakota Department of Public Safety. 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 SDDPS 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 South Dakota Department of Public Safety Registry. The registry is established and maintained by the SDDPS. 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 SDDPS 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>				
	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. It is also to be used for a rendezvous with a helicopter or specialty team to provide support services such as transport from landing zone to hospital.

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 to or from their residence or extended care facility to a physician, clinic, rehabilitation, hospice, 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.

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: Yes <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: Yes <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: 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	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 South Dakota Department of Public Safety or other South Dakota 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 South Dakota Department of Public Safety. 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: Yes <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 South Dakota Department of Public Safety or other South Dakota 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

South Dakota Department of Public Safety or South Dakota State regulatory agency.

Submitted data will be verified for accuracy against the South Dakota Department of Public Safety Registry. The registry is established and maintained by the SDDPS. 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 SDDPS 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: 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	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_03
<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, 2006-04-04T08:05:00.0Z.

**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>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 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.OZ.

**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 Required in XSD: Yes		
<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	Weather

**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	265	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	330	Clean Up
335	Decontamination	340	Documentation
345	ED Overcrowding	350	Equipment Failure
355	Equipment Replenishment	360	None
365	Other	370	Staff Delay
375	Vehicle Failure		

**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 SDDPS 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 South Dakota			
<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: 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 value
<a href="#">Refer to Appendix C</a>				
(South Dakota 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 South Dakota Department of Public Safety or 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:** 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 South Dakota 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: Yes <b>Required in XSD: Yes</b> Minimum Constraint: 2 Maximum Constraint: 5			
<b>Field Values:</b>				
	-25	Not Applicable	-20	Not Recorded
	-15	Not Reporting	-10	Not Known
	-5	Not Available		Relevant value
<p><a href="#">Refer to Appendix E</a> (South Dakota County FIPS List)</p>				

**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 South Dakota Department of Public Safety 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 South Dakota 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: 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 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 SDDPS to interface with state geocoding systems to build location based on the GPS coordinates. Must adhere to the NEMESIS 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
1160	Street or Highway	1165	Public Building (schools, government. offices)
1170	Trade or service (business, bars, restaurants, etc.)	1175	Health Care Facility (clinic, hospital, nursing home)
1180	Residential Institution	1185	Lake, River, Ocean
1190	Other Location		

**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

**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>	No														
<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: 50														
<b>Field Values:</b>															
<table border="1"> <tr> <td>-25</td> <td>Not Applicable</td> <td>-20</td> <td>Not Recorded</td> </tr> <tr> <td>-15</td> <td>Not Reporting</td> <td>-10</td> <td>Not Known</td> </tr> <tr> <td>-5</td> <td>Not Available</td> <td></td> <td>The appropriate digits agency</td> </tr> </table>				-25	Not Applicable	-20	Not Recorded	-15	Not Reporting	-10	Not Known	-5	Not Available		The appropriate digits agency
-25	Not Applicable	-20	Not Recorded												
-15	Not Reporting	-10	Not Known												
-5	Not Available		The appropriate digits agency												
<a href="#">Refer to Appendix B</a> {5 digit Health Facility Number}															
<a href="#">Refer to Appendix A</a> {4 digit EMS Agency Number}															

**Content:** This element consists of the unique number as assigned by the South Dakota Department of Public Safety 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 <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	4990	Closest Facility
4995	Diversion	5000	Family Choice
5005	Insurance Status	5010	Law 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: Yes, via structure 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: Yes, via structure Accepts Null Values: Yes, but null value is blank or empty <b>Required in XSD: Yes</b> Minimum Constraint: 0 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: Yes, via structure Accepts Null Values: Yes, but null value is blank or empty <b>Required in XSD: Yes</b> Minimum Constraint: 0 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: Yes, via structure Accepts Null Values: Yes, but null value is blank or empty <b>Required in XSD: Yes</b> Minimum Constraint: 0 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: Yes, via structure Accepts Null Values: Yes, but null value is blank or empty <b>Required in XSD: Yes</b> Minimum Constraint: 0 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: Yes, via structure Accepts Null Values: No <b>Required in XSD: No</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: 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	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: Yes, via structure Accepts Null Values: Yes <b>Required in XSD: Yes</b> Minimal Constraint = -1 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: Yes, via structure Accepts Null Values: Yes <b>Required in XSD: Yes</b> Minimal Constraint = 1 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_17		
<b>XML:</b>	XSD Data Type: <i>xs:integer</i> XSD Domain (Simple Type): <i>GCSMotor</i> Multiple Entry Configuration: Yes, via structure Accepts Null Values: Yes <b>Required in XSD: Yes</b> Minimal Constraint = 1 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: 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	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: 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	2455	12 Lead ECG – Anterior Ischemia
2460	12 Lead ECG – Inferior Ischemia	2465	12 Lead ECG – Lateral Ischemia
2470	Agonal / Idioventricular	2475	Artifact
2480	Asystole	2485	Atrial Fibrillation / Flutter
2490	AV Block – 1 <sup>st</sup> Degree	2495	AV Block – 2 <sup>nd</sup> Degree Type 1
2500	AV Block – 2 <sup>nd</sup> Degree Type 2	2505	AV Block – 3 <sup>rd</sup> Degree Type 3
2510	Junctional	2515	Left Bundle Branch
2520	Normal Sinus Rhythm	2525	Other
2530	Paced Rhythm	2535	PEA
2540	Premature Atrial Contractions	2545	Premature Ventricular Contractions
2550	Right Bundle Branch Block	2555	Sinus Arrhythmia
2560	Sinus Bradycardia	2565	Sinus Tachycardia
2570	Supraventricular Tachycardia	2575	Torsades De Points
2580	Unknown AED Non-Shockable Rhythm	2585	Unknown AED Shockable Rhythm
2590	Ventricular Fibrillation	2595	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 SDSOAR 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>DateTime</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 SDSOAR 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>	E10_10
<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>YesNoValues</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:** 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: 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
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:**

-10 Not known

This is to be coded if the provider is not aware of an EMD program in use.

-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	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 Required in XSD: No		
<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_06
<b>XML:</b>	<p>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</p> <p>If a value of 50 is passed, the location is designated "Cargo Area".</p>

**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: Yes, via structure 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.OZ

**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, via structure Accepts Null Values: Yes, <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 South Dakota Department of Public Safety 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: Yes, via structure 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.OZ

**115. Medication – Crewmember Certification Number**

<b>Name of Data Element:</b>	Medication Crew Member 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: Yes, via structure Accepts Null Values: Yes Required in XSD: No 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 South Dakota Department of Public Safety 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 South Dakota Department of Public Safety 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 NEMSIS 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 South Dakota Department of Public Safety.

**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 South Dakota Department of Public Safety. 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 South Dakota Department of Public Safety. 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: 30

**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: 3 Maximum Constraint: 15
<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 South Dakota Department of Public Safety. 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 SDDPS 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 South Dakota Department of Public Safety. 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: 5 Maximum Constraint: 5
<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 South Dakota Department of Public Safety. 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>															
<table border="1"> <tr> <td>5810</td> <td>Community, Non-Profit</td> <td>5820</td> <td>Fire Department</td> </tr> <tr> <td>5830</td> <td>Governmental, Non-Fire</td> <td>5840</td> <td>Hospital</td> </tr> <tr> <td>5850</td> <td>Private, Non_Hospital</td> <td>5860</td> <td>Tribal</td> </tr> </table>				5810	Community, Non-Profit	5820	Fire Department	5830	Governmental, Non-Fire	5840	Hospital	5850	Private, Non_Hospital	5860	Tribal
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): StatisticalYear 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
		0063	White Ambulance Service
0011	Dell Rapids Community Ambulance Serv	0071	Yankton County EMS
0012	Garretson Community Ambulance Corpor	0081	Mitchell Regional Ambulance Service
0013	Humboldt Fire & Ambulance Service	0091	Lead-Deadwood Regional Hospital Amb
0014	Rural/Metro Medical Services	0092	Spearfish Emergency Ambulance Servic
0015	Med-Star Paramedic Ambulance, Inc.	0101	Plankinton Ambulance Association
0020	Rapid City Department of Fire & Ems	0102	White Lake Ambulance Service
0021	Ellsworth AFB Ambulance Service	0111	Bennett County Ambulance Service
0022	Hill City Ambulance Service	0121	Avon Save-A-Life Ambulance Service
0025	Keystone Ambulance Service Inc.	0122	Scotland Community Ambulance Service
0026	Wall Volunteer Ambulance Service	0123	Springfield Fire & Ambulance Service
0032	Aberdeen Fire & Rescue/Advanced Care	0124	Tabor Community Ambulance Service
0033	Frederick Area Ambulance Service	0125	Tyndall Ambulance Service
0034	Hecla Community Ambulance Service	0131	Missouri Valley Ambulance Service
0035	Aberdeen Ambulance Service, Inc	0132	Kimball Volunteer District
0041	Huron Ambulance Service, Inc.	0141	Crow Creek Sioux Ambulance Service
0042	Wessington Ambulance Service	0151	Butte County Ambulance Service-Belle
0051	South Shore Ambulance Service	0152	Butte County Ambulance Service-Newel
0052	Watertown Fire Dept & Ambulance Serv	0161	Campbell County Ambulance Service
0061	Brookings Ambulance Service		
0062	Elkton Community Ambulance Service	<b>Agency No.</b>	<b>Agency Name</b>

0171	Lake Andes/Wagner Ambulance District	0301	Bonesteel Ambulance Service
0172	Platte Ambulance Service	0302	Burke Ambulance Service, Inc.
0173	Wagner-Lake Andes Ambulance District	0303	Gregory Ambulance Association
0181	Clark County Ambulance Service	0311	Philip Ambulance Service
0191	Vermillion/Clay County Ambulance Service	0312	Midland Area Emergency Medical Service
0201	McIntosh Volunteer Ambulance Service	0321	Castlewood Ambulance District
0203	Standing Rock Ambulance-McLaughlin	0322	Estelline Ambulance Service
0212	Custer Ambulance Service, Inc.	0323	Lake Norden Ambulance Service
0221	Christensen Ambulance Service, Inc.	0331	Hand County Ambulance Service
0231	Deuel County Ambulance Inc.	0351	Harding County Ambulance Service
0241	Eagle Butte IHS Ambulance Service	0363	American Medical Response
0242	Dewey County Ambulance Service-Isabe	0371	Freeman Ambulance Service
0243	Timber Lake Ambulance Service	0372	Menno Ambulance Service
0251	Armour Ambulance Douglas County	0373	Parkston Rural Ambulance District
0252	Douglas County Ambulance Service-Cor	0374	Tripp Ambulance Service
0261	Bowdle Ambulance Service	0381	Highmore Fire Department & Ambulance
0262	Ipswich Ambulance Service	0391	Kadoka Ambulance Service
0271	Edgemont Ambulance Service	0401	Jerauld County Ambulance Service
0272	Hot Springs Volunteer Ambulance Service	0411	Jones County Ambulance Service
0274	Oelrichs Emergency Medical Care	0421	Arlington Ambulance Service
0277	Oglala Sioux Tribal Ambulance Service	0422	DeSmet Emergency Rescue Unit
0281	Faulk County Ambulance Service	0423	Iroquois Fire & Rescue District
		0424	Lake Preston Ambulance Service
		0431	Madison Medical Services
		0441	Canton-Inwood Ambulance Service
<b>Agency No.</b>	<b>Agency Name</b>	<b>Agency No.</b>	<b>Agency Name</b>
0291	Grant-Roberts Ambulance Service		

0442	Hudson Ambulance Association	0571	Conde Ambulance Service
0443	Lennox Area Ambulance	0572	Spink County Ambulance Service
0451	Lower Brule Ambulance Service	0591	Onida Fire Department, Inc.
0452	Lyman County Ambulance Service	0601	Rosebud Sioux Tribe Ambulance Service
0462	McCook County Emergency Medical Serv	0602	Tripp County Ambulance Service
0471	Eureka Ambulance Service	0611	Centerville Community Ambulance Serv
0472	Leola Ambulance Service	0612	Hurley Ambulance Service
0481	Marshall County Ambulance Service	0613	Marion Community Ambulance Service
0491	Faith Ambulance Service	0614	Parker Volunteer Ambulance Service
0492	Sturgis Fire & Emergency Services	0621	Beresford Community Ambulance Service
0493	Piedmont Fire & Ambulance Service	0622	Elk Point Community Ambulance Service
0502	Mellette County Ambulance Service	0623	Jefferson Ambulance Service
0511	Carthage Ambulance Service	0624	Alcester Emergency Medical Service
0512	Miner County Ambulance Service	0625	Viborg Ambulance Service
0521	Moody County Ambulance Service	0631	Mobridge Regional Hospital Ambulance
0531	Bison Ambulance	0632	Selby Volunteer Ambulance Service
0532	Perkins County Ambulance Service-Lem	0671	Dupree Volunteer Fire Dept & Ambulan
0541	Gettysburg Ambulance Service	1000	Bridgewater Community Ambulance
0542	Hoven Ambulance Service	1011	New Underwood Ambulance Service
0551	Northeast Ambulance Service		
0561	Sanborn County Ambulance Service		

**Agency  
No.**

**Agency Name**

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## Air Services

<b>Agency No.</b>	<b>Agency Name</b>
0017	Intensive Air - Sanford USD Med Cntr
0018	Avera McKennan Careflight
0028	Black Hills Life Flight
0029	Medical Air Rescue Company
0036	Avera Saint Luke's Careflight
0037	Aberdeen Flying Service
<b>0650</b>	<b>Out of State Air Ambulance</b>

## Appendix B Health Facility List

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<b>ID</b>	<b>Name</b>	<b>ID</b>	<b>Name</b>
10102	Avera St. Lukes	10130	Bennett County Memorial
10103	Douglas Memorial	10131	St. Bernards Providence
10105	Bowdle Memorial	10132	Hand County Memorial
10106	Marshall County Memorial	10134	Avera Queen of Peace
10107	Brookings Community	10136	St. Benedict
10108	Burke Community Memorial	10137	Hans P Peterson Memorial
10109	Canton-Inwood Memorial	10138	St. Marys
10110	Mid Dakota	10139	Plarre Community
10111	Deuel County Memorial	10140	Rapid City Regional
10112	Custer Community hospital	10142	Redfield Community Memorial
10113	Deadwood Hospital	10143	Landmann-Jungman Hospital
10114	Dell Rapids Community	10145	Avera McKennan
10115	DeSmet Memorial	10146	Sanford Health
10117	Eureka Community	10147	Coteau De Prairie
10118	Faulk County Memorial	10148	Lokout Memorial
10119	Flamdreau Municipal	10149	Sturgis Community Health Care Center
10120	Freeman Community	10150	St. Michaels
10121	Gettysburg Memorial	10151	Dakota Hospital
10122	Gregory Community	10152	Pioneer Memorial
10123	Southern Hills Hospital	10153	Wagner Community
10124	Hoven Community	10155	Prairie Lakes
10125	Huron Regional Medical Center	10156	Lake Area
10128	Five Counties Hospital	10157	Weskota Hospital
10129	Madison Community	10158	Winner Regional

ID	Name	ID	Name
10159	Avera Sacred Heart		<b>Out of State</b>
10160	Kinsbury Hospital	5503	Canada - Other Hospitals
20801	Vetreans Administration Hospital	5504	Colorado - Other Hospitals
20903	Eagle Butte Public Health Hospital	5431	Denver Childrens -CO
20904	Rosebud Public Health Hospital	5430	University of Colorado -CO
20905	Wagner PHS	5400	Abbott Northwest -MN
20906	Pine Ridge Indian Health Services	5401	Abbott Northwest -MN
30001	Select Specialty	5402	Childrens Hospital -MN
32144	Childrens Care Hospital	5403	Hennepin County -MN
40001	Sanford Rehab	5500	Minnesota - Other Hospitals
40002	Avera McKennan Rehab	5404	North Memorial -MN
	<b>Other Destinations</b>	5405	Regional Hospital -MN
9500	Law Enforcement/Police	5088	St. Francis Medical Center - MN
9501	Long Term Care Facility	5406	St. Marys Regional -MN
9502	Residence	5407	University of Minnesota -MN
9503	Other Acute Care Medical Facility	5502	Montana - Other Hospitals
9504	Morgue/Funeral Home/Coronor	5420	Avera Mckennan -SD
9505	Clinic/Doctor's Office	5421	Avera St. Lukes -SD
9506	Other EMS Entity	5422	Mobridge - SD
9999	Unspecified	5423	Rapid City Regional -SD
		5424	Sious Valley -SD
		5501	South Dakota - Other Hospitals
		5090	Other Out of State

## Appendix C

### South Dakota City FIPS

FIPS ID	Name	FIPS ID	Name
	<b>Aurora County</b>	07460	Broadland (Township of)
02740	Aurora (Township of)	08780	Burr Oak (Township of)
02860	Aurora Center	09980	Carlyle (Township of)
04300	Belford (Township of)	10620	Cavour
07260	Bristol (Township of)	10660	Cavour (Township of)
10900	Center (Township of)	12900	Clifton (Township of)
13820	Cooper (Township of)	13060	Clyde (Township of)
14960	Crystal Lake (Township of)	15060	Custer (Township of)
17180	Dudley (Township of)	15740	Dearborn (Township of)
20100	Eureka (Township of)	20460	Fairfield (Township of)
21420	Firesteel (Township of)	22380	Foster (Township of)
23300	Gales (Township of)	25580	Grant (Township of)
30020	Hopper (Township of)	27660	Hartland (Township of)
34780	Lake (Township of)	29500	Hitchcock
48180	Palatine (Township of)	31060	Huron
48660	Patten (Township of)	31140	Huron Colony
50020	Plankinton	31155	Huron Regional Airport
50060	Plankinton (Township of)	31780	Iowa (Township of)
50620	Pleasant Lake (Township of)	32020	Iroquois
50700	Pleasant Valley (Township of)	33500	Kellogg (Township of)
61700	Stickney	35140	Lake Byron (Township of)
61940	Storla	36740	Liberty (Township of)
64220	Truro (Township of)	38180	Logan (Township of)
68900	Washington (Township of)	42340	Milford (Township of)
71180	White Lake	43780	Morningside
71220	White Lake (Township of)	44500	Nance (Township of)
	<b>Beadle County</b>	48780	Pearl Creek (Township of)
00860	Allen (Township of)	48820	Pearl Creek Colony
01300	Altoona (Township of)	51020	Pleasant View (Township of)
03500	Banner (Township of)	54420	Richland (Township of)
03700	Barrett (Township of)	55220	Riverside Colony
04460	Belle Prairie (Township of)	57500	Sand Creek (Township of)
06340	Bonilla	58360	Sheffield
06380	Bonilla (Township of)	63300	Theresa (Township of)
07420	Broadland	65980	Valley (Township of)

<b>FIPS ID</b>	<b>Name</b>	<b>FIPS ID</b>	<b>Name</b>
66860	Vernon (Township of)	57940	Scotland
67500	Virgil	57980	Scotland (Township of)
70140	Wessington	59846	Southeast Bon Homme
70180	Wessington (Township of)	59950	Southwest Bon Homme
71460	Whiteside (Township of)	60660	Springfield
72540	Wolsey	60700	Springfield (Township of)
72580	Wolsey (Township of)	62820	Tabor
73020	Yale	62860	Tabor (Township of)
	<b>Bennett County</b>	64860	Tyndall
00900	Allen	68940	Washington (Township of)
05815	Blackpipe		<b>Brookings County</b>
10860	Cedar Lake (Township of)	00380	Afton (Township of)
17710	East Bennett (Unorganized Territory of)	00525	Ahnberg
27220	Harrington	01260	Alton (Township of)
41100	Martin	02100	Argo (Township of)
48620	Patricia	02180	Arlington
49700	Pine Ridge Indian Reservation	02220	Arlington Beach
62660	Swett	02780	Aurora
64620	Tuthill	02820	Aurora (Township of)
66980	Vetal	03460	Bangor (Township of)
70270	West Bennett (Unorganized Territory of)	07580	Brookings
	<b>Bon Homme County</b>	07620	Brookings (Township of)
00660	Albion (Township of)	07632	Brookings Municipal Airport
02900	Avon	07740	Bruce
02940	Avon (Township of)	08820	Bushnell
06260	Bon Homme (Township of)	18700	Elkton
06300	Bon Homme Colony	18740	Elkton (Township of)
12740	Cleveland (Township of)	20140	Eureka (Township of)
19340	Emanuel (Township of)	35380	Lake Hendricks (Township of)
22660	Franklin (Township of)	35580	Lake Sinai (Township of)
26860	Hancock (Township of)	35620	Laketon (Township of)
32180	Jackson (Township of)	41775	Medary
32540	Jefferson (Township of)	41780	Medary (Township of)
34100	Kingsburg	46340	Oak Lake (Township of)
37220	Lincoln (Township of)	46440	Oakwood (Township of)
43340	Monroe (Township of)	47860	Oslo (Township of)
45550	Northeast Bon Homme	48540	Parnell (Township of)
45790	Northwest Bon Homme	51900	Preston (Township of)
49180	Perkins	54460	Richland (Township of)
56820	Running Water	58460	Sherman (Township of)
56860	Running Water (Township of)	58900	Sinai

<b>FIPS ID</b>	<b>Name</b>	<b>FIPS ID</b>	<b>Name</b>
59180	Sioux Valley Junction	28660	Highland (Township of)
61620	Sterling (Township of)	30260	Houghton
62380	Sunnyview	30780	Huffton
63980	Trenton (Township of)	32340	James
65620	University	35860	Lansing (Township of)
67700	Volga	36780	Liberty (Township of)
67740	Volga (Township of)	37260	Lincoln (Township of)
70940	White	40580	Mansfield
72260	Winsor (Township of)	42020	Mercier (Township of)
	<b>Brown County</b>	44495	Nahon
00100	Aberdeen	44980	New Hope (Township of)
00140	Aberdeen (Township of)	45540	North Detroit (Township of)
00154	Aberdeen Regional Airport	47100	Oneota (Township of)
00980	Allison (Township of)	47380	Ordway
03660	Barnard	47420	Ordway (Township of)
03780	Bates (Township of)	47740	Osceola (Township of)
03900	Bath	48260	Palmyra (Township of)
03940	Bath (Township of)	50010	Plana
06700	Brainard (Township of)	51380	Portage (Township of)
09180	Cambria (Township of)	51720	Prairiewood (Township of)
09860	Carlisle (Township of)	52420	Putney
12100	Claremont	52460	Putney (Township of)
12140	Claremont (Township of)	52940	Randolph
13420	Columbia	53180	Ravinia (Township of)
13460	Columbia (Township of)	54500	Richland (Township of)
17000	Downtown	54790	Richmond
17820	East Hanson (Township of)	54980	Riverside (Township of)
17900	East Rondell (Township of)	56660	Rudolph
21380	Ferney	57660	Savo (Township of)
22820	Franklyn (Township of)	58380	Shelby (Township of)
22860	Frederick	59840	South Detroit (Township of)
22900	Frederick (Township of)	62020	Stratford
23500	Garden Prairie (Township of)	62900	Tacoma Park
23780	Garland (Township of)	66660	Verdon
24020	Gem (Township of)	68740	Warner
25820	Greenfield (Township of)	68780	Warner (Township of)
26340	Groton	70380	West Hanson (Township of)
26380	Groton (Township of)	70620	West Rondell (Township of)
27980	Hecla	70540	Westport
28020	Hecla (Township of)	70580	Westport (Township of)
28100	Henry (Township of)	72250	Winship

<b>FIPS ID</b>	<b>Name</b>	<b>FIPS ID</b>	<b>Name</b>
	<b>Brule County</b>	58385	Shelby
01340	America (Township of)	59850	Southeast Buffalo (Unorganized Territory of)
05580	Bijou Hills		<b>Butte County</b>
07780	Brule (Township of)	02300	Arpan
10835	Cedar Grove Colony	04380	Belle Fourche
11220	Chamberlain	10460	Castle Rock
11260	Chamberlain (Township of)	14100	Cottonwood (Township of)
12780	Cleveland (Township of)	17720	East Butte (Unorganized Territory of)
17495	Eagle	19540	Empire
17500	Eagle (Township of)	23140	Fruitdale
25300	Grandview (Unorganized Territory of)	29940	Hoover
26330	Grosse	32895	Jolly
28700	Highland (Township of)	32900	Jolly Dump
33980	Kimball	44860	Newell
34020	Kimball (Township of)	45180	Nisland
39700	Lyon (Township of)	64980	Union (Township of)
39785	Lyonville	65900	Vale
46700	Ola	65940	Vale (Township of)
46740	Ola (Township of)	66000	Valley (Township of)
49860	Plainfield (Township of)	70290	West Butte (Unorganized Territory of)
50580	Pleasant Grove (Township of)		<b>Campbell County</b>
51180	Plummer (Township of)	02340	Artas
52220	Pukwana	28340	Herreid
52260	Pukwana (Township of)	44020	Mound City
53660	Red Lake (Township of)	45520	North Campbell (Unorganized Territory of)
54540	Richland (Township of)	51260	Pollock
59540	Smith (Township of)	59760	South Campbell (Unorganized Territory of)
63780	Torrey Lake (Township of)		<b>Charles Mix County</b>
64940	Union (Township of)	00180	Academy
68220	Waldro (Township of)	06460	Bovee
70500	West Point (Township of)	07940	Bryan (Township of)
71700	Wilbur (Township of)	10100	Carroll (Township of)
71900	Willow Lake (Township of)	10340	Castalia (Unorganized Territory of)
	<b>Buffalo County</b>	11940	Choteau Creek (Township of)
14830	Crow Creek (Unorganized Territory of)	15420	Dante
14860	Crow Creek Indian Reservation	15460	Darlington (Township of)
17980	Eden (Township of)	16510	Dezera
19300	Elvira (Township of)	22020	Forbes (Township of)
22340	Fort Thompson	23980	Geddes
23420	Gannvalley	24900	Goose Lake (Township of)
45510	North Buffalo (Unorganized Territory of)	26100	Greenwood

<b>FIPS ID</b>	<b>Name</b>	<b>FIPS ID</b>	<b>Name</b>
26700	Hamilton (Township of)	22060	Fordham (Township of)
28740	Highland (Township of)	22540	Foxton (Township of)
30380	Howard (Township of)	23460	Garden City
32220	Jackson (Township of)	23540	Garfield (Township of)
33660	Kennedy (Township of)	26580	Hague (Township of)
36020	La Roche (Township of)	31145	Huron Colony
35100	Lake Andes	34820	Lake (Township of)
35340	Lake George (Township of)	37300	Lincoln (Township of)
36100	Lawrence (Township of)	38220	Logan (Township of)
38620	Lone Tree (Township of)	41460	Maydell (Township of)
41180	Marty	42060	Merton (Township of)
43580	Moore (Township of)	44060	Mount Pleasant (Township of)
45785	North Wagner	44620	Naples
49460	Pickstown	50340	Pleasant (Township of)
49820	Plain Center (Township of)	53260	Raymond
50260	Platte	53300	Raymond (Township of)
50300	Platte (Township of)	54580	Richland (Township of)
50310	Platte Colony	56020	Rosedale (Township of)
53220	Ravinia	60980	Spring Valley (Township of)
53900	Ree (Township of)	63380	Thorp (Township of)
54340	Rhoda (Township of)	67220	Vienna
56500	Rouse (Township of)	68820	Warren (Township of)
58740	Signal (Township of)	68980	Washington (Township of)
68020	Wagner	71940	Willow Lake
68060	Wahehe (Township of)	72660	Woodland (Township of)
71500	White Swan (Township of)		<b>Clay County</b>
73100	Yankton Indian Reservation	05100	Bethel (Township of)
	<b>Clark County</b>	06090	Bloomington
02500	Ash (Township of)	08500	Burbank
05900	Blaine (Township of)	15270	Dalesburg
06660	Bradley	20580	Fairview (Township of)
10020	Carpenter	23580	Garfield (Township of)
12180	Clark	24660	Glenwood (Township of)
13180	Collins (Township of)	25860	Greenfield
14140	Cottonwood (Township of)	30620	Hub City
14660	Crocker	31940	Irene
15500	Darlington (Township of)	38135	Lodi
15580	Day (Township of)	41700	Meckling
18020	Eden (Township of)	41740	Meckling (Township of)
19180	Elrod	45860	Norway (Township of)
19220	Elrod (Township of)	50740	Pleasant Valley (Township of)

<b>FIPS ID</b>	<b>Name</b>	<b>FIPS ID</b>	<b>Name</b>
51580	Prairie Center (Township of)	69420	Waverly
55020	Riverside (Township of)	69460	Waverly (Township of)
60260	Spirit Mound (Township of)		<b>Corson County</b>
61340	Star (Township of)	02650	Athboy
66700	Vermillion	05790	Black Horse
66740	Vermillion (Township of)	08460	Bullhead
68100	Wakonda	09140	Cadillac (Township of)
70340	Westerville	11145	Central Corson (Unorganized Territory of)
70610	Westreville	15100	Custer (Township of)
	<b>Codington County</b>	15860	Delaney (Township of)
01820	Appleby	20620	Fairview (Township of)
16500	Dexter (Township of)	25260	Grand Valley (Township of)
18060	Eden (Township of)	33460	Keldron
19020	Elmira (Township of)	33540	Kenel
21820	Florence	34900	Lake (Township of)
21975	Foley	36360	Lemmon No. 2 (Unorganized Territory of)
23180	Fuller (Township of)	36820	Liberty (Township of)
24180	Germantown (Township of)	37340	Lincoln (Township of)
24980	Graceland (Township of)	37900	Little Eagle
26540	Grover	37940	Little Oak (Township of)
28140	Henry	40340	Mahto
28180	Henry (Township of)	40380	Mahto (Township of)
33260	Kampeska	40620	Maple Leaf
33300	Kampeska (Township of)	39940	McIntosh
34340	Kranzburg	40020	McLaughlin
34380	Kranzburg (Township of)	40060	McLaughlin (Township of)
34860	Lake (Township of)	42880	Miscol
35640	Lake Traverse (Sisseton) Indian Reservation	42900	Mission (Township of)
36420	Leola (Township of)	43860	Morristown
45690	North Shore	44660	Navan (Township of)
48980	Pelican (Township of)	45555	Northeast Corson (Unorganized Territory of)
49340	Phipps (Township of)	49740	Pioneer (Township of)
53060	Rauville	50660	Pleasant Ridge (Township of)
53100	Rauville (Township of)	51700	Prairie View (Township of)
54620	Richland (Township of)	54860	Ridgeland (Township of)
58420	Sheridan (Township of)	55060	Riverside (Township of)
59340	Sisseton Indian Reservation (Also ND)	55700	Rolling Green (Township of)
59940	South Shore	58500	Sherman (Township of)
68420	Wallace	59630	Snake Creek
69300	Watertown	61260	Standing Rock Indian Reservation (Also ND)
69312	Watertown Municipal Airport	63500	Thunder Hawk

<b>FIPS ID</b>	<b>Name</b>	<b>FIPS ID</b>	<b>Name</b>
63540	Thunder Hawk (Township of)	39020	Loomis
63900	Trail City	42070	Metzgerville
64780	Twin Butte (Township of)	43100	Mitchell
68140	Wakpala	43140	Mitchell (Township of)
68180	Wakpala (Township of)	43152	Mitchell Municipal Airport
68260	Walker	44100	Mount Vernon
68300	Walker (Township of)	44140	Mount Vernon (Township of)
69220	Watauga	49220	Perry (Township of)
69260	Watauga (Township of)	52100	Prosper (Township of)
70310	West Corson (Unorganized Territory of)	55740	Rome (Township of)
	<b>Custer County</b>	63660	Tobin (Township of)
02150	Argyle	65020	Union (Township of)
05020	Berne		<b>Day County</b>
06130	Blue Bell	01500	Andover
08340	Buffalo Gap	01540	Andover (Township of)
14500	Crazy Horse	07300	Bristol
15140	Custer	07340	Bristol (Township of)
16380	Dewey	08860	Butler
17750	East Custer (Unorganized Territory of)	08900	Butler (Township of)
20340	Fairburn	11180	Central Point (Township of)
21990	Folsom	14380	Crandall
22510	Fourmile	18540	Egeland (Township of)
28300	Hermosa	21140	Farmington (Township of)
32760	Jewel Cave National Monument	26220	Grenville
37060	Lien	26260	Grenville (Township of)
44080	Mount Rushmore National Memorial	28780	Highland (Township of)
45140	Nihart	29740	Holmquist
51940	Pringle	29860	Homer (Township of)
57460	Sanator	31460	Independence (Township of)
60310	Spokane	33860	Kidder (Township of)
66950	Vestal Springs	34300	Kosciusko (Township of)
70320	West Custer (Unorganized Territory of)	35640	Lake Traverse (Sisseton) Indian Reserva
72080	Wind Cave National Park	36860	Liberty (Township of)
	<b>Davison County</b>	37140	Lily
03020	Badger (Township of)	39580	Lynn (Township of)
03300	Baker (Township of)	43900	Morton (Township of)
05180	Betts	46140	Nutley (Township of)
05220	Beulah (Township of)	46260	Oak Gulch (Township of)
05980	Blendon (Township of)	49380	Pickerel (Pickerel Lake)
20060	Ethan	49420	Pickerel Lake
37820	Lisbon (Township of)	49540	Pierpont

<b>FIPS ID</b>	<b>Name</b>	<b>FIPS ID</b>	<b>Name</b>
52660	Racine (Township of)	63740	Toronto
53020	Raritan (Township of)	64350	Tunerville
56380	Roslyn		<b>Dewey County</b>
56940	Rusk (Township of)	04020	Bear Creek
58020	Scotland (Township of)	11860	Cheyenne River Indian Reservation
59340	Sisseton Indian Reservation (Also ND)	17620	Eagle Butte
64100	Troy (Township of)	21460	Firesteel
65060	Union (Township of)	21500	Firesteel (Township of)
66020	Valley (Township of)	24460	Glencross
69340	Waubay	25900	Green Grass
69380	Waubay (Township of)	32140	Isabel
69780	Webster	35940	La Plant
69740	Webster (Township of)	35900	Lantry
70820	Wheatland (Township of)	40960	Marksville
73220	York (Township of)	43665	Moreau
	<b>Deuel County</b>	45545	North Dewey (Unorganized Territory of)
01140	Altamont	45548	North Eagle Butte
01180	Altamont (Township of)	48300	Parade
01780	Antelope Valley (Township of)	52000	Promise
02580	Astoria	54900	Ridgeview
04700	Bemis	59842	South Dewey (Unorganized Territory of)
06060	Blom (Township of)	63290	Thatcher
06940	Brandt	63620	Timber Lake
06980	Brandt (Township of)	63900	Trail City
12540	Clear Lake	67585	Virginia
12580	Clear Lake (Township of)	71140	Whitehorse
23860	Gary	73200	Yellowhorse Ford
24700	Glenwood (Township of)		<b>Douglas County</b>
24820	Goodwin	02260	Armour
24860	Goodwin (Township of)	04540	Belmont (Township of)
25540	Grange (Township of)	11620	Chester (Township of)
27740	Havana (Township of)	12220	Clark (Township of)
28380	Herrick (Township of)	13980	Corsica
28620	Hidewood (Township of)	16060	Delmont
32825	Johnsonville	17740	East Choteau (Township of)
39060	Lowe (Township of)	23620	Garfield (Township of)
43750	Moritz	25340	Grandview (Township of)
45300	Norden (Township of)	26150	Greenwood Colony
51420	Portland (Township of)	27300	Harrison
55780	Rome (Township of)	29220	Hillside
57740	Scandinavia (Township of)	29700	Holland (Township of)

<b>FIPS ID</b>	<b>Name</b>	<b>FIPS ID</b>	<b>Name</b>
31500	Independence (Township of)	43460	Montpelier (Township of)
31820	Iowa (Township of)	45500	North Bryant (Township of)
33020	Joubert	46460	Odessa (Township of)
33060	Joubert (Township of)	49020	Pembrook (Township of)
37380	Lincoln (Township of)	49980	Plainview Colony
44940	New Holland	51505	Powell
66060	Valley (Township of)	51500	Powell (Township of)
68500	Walnut Grove (Township of)	54660	Richland (Township of)
69020	Washington (Township of)	55820	Roscoe
	<b>Edmunds County</b>	56300	Rosette (Township of)
00340	Adrian (Township of)	57540	Sangamon (Township of)
04230	Beebe	65100	Union (Township of)
04340	Belle (Township of)	66820	Vermont (Township of)
06540	Bowdle		<b>Fall River County</b>
06580	Bowdle (Township of)	01640	Antelope (Township of)
07980	Bryant (Township of)	01980	Ardmore
12620	Clear Lake (Township of)	02060	Argentine (Township of)
12820	Cleveland (Township of)	08590	Burdock
13020	Cloyd Valley (Township of)	10280	Cascade Springs
14060	Cortlandt (Township of)	14180	Cottonwood (Township of)
14260	Cottonwood Lake (Township of)	16200	Dennis
14460	Craven	17100	Dryden (Township of)
22500	Fountain (Township of)	17215	Dudley
24420	Glen (Township of)	17220	Dudley (Township of)
24740	Glover (Township of)	18300	Edgemont
26300	Gretna	19850	Erskine
27060	Harmony (Township of)	27100	Harmony (Township of)
29260	Hillside (Township of)	28200	Heppner
30140	Hosmer	30220	Hot Springs
30180	Hosmer (Township of)	31270	Igloo
30700	Hudson (Township of)	37180	Limestone (Township of)
30960	Huntley (Township of)	38980	Loomer (Township of)
31180	Hutley (Township of)	40780	Marietta
31860	Ipswich	42780	Minnekahta
31900	Ipswich (Township of)	45560	Northeast Fall River (Unorganized Territory)
33700	Kent (Township of)	46500	Oelrichs
36900	Liberty (Township of)	47340	Oral
39300	Loyalton	52140	Provo
40140	Madison (Township of)	52180	Provo (Township of)
42700	Mina	55300	Robins (Township of)
43200	Modena (Township of)	55655	Rocky Ford

<b>FIPS ID</b>	<b>Name</b>	<b>FIPS ID</b>	<b>Name</b>
56700	Rumford	62940	Tamworth (Township of)
59500	Slim Butte (Township of)	65140	Union (Township of)
59620	Smithwick	69900	Wecota
59955	Southwest Fall River (Unorganized Territory of)	70100	Wesley (Township of)
	<b>Faulk County</b>	73300	Zell
01940	Arcade (Township of)	73340	Zell (Township of)
06140	Blumengard Colony		<b>Grant County</b>
08020	Bryant (Township of)	00260	Adams (Township of)
08760	Burkmere	00580	Alban (Township of)
11020	Centerville (Township of)	00620	Albee
11500	Chelsea	05500	Big Stone (Township of)
12260	Clark (Township of)	05540	Big Stone City
14580	Cresbard	06100	Blooming Valley (Township of)
16335	Devoe	21180	Farmington (Township of)
16340	Devoe (Township of)	24100	Georgia (Township of)
18900	Ellisville (Township of)	25740	Grant Center (Township of)
19260	Elroy (Township of)	33940	Kilborn (Township of)
19380	Emerson (Township of)	34540	La Bolt (corporate name for Labolt)
19700	Enterprise (Township of)	34580	Labolt (corporate name La Bolt)
20660	Fairview (Township of)	35640	Lake Traverse (Sisseton) Indian Reservation
21260	Faulkton	39500	Lura (Township of)
22980	Freedom (Township of)	40180	Madison (Township of)
29180	Hillsdale (Township of)	41220	Marvin
32080	Irving (Township of)	41580	Mazeppa (Township of)
34700	Lafoon (Township of)	41940	Melrose (Township of)
42370	Millard	42260	Milbank
42860	Miranda	47780	Osceola (Township of)
44420	Myron (Township of)	54220	Reville
45260	Norbeck	59340	Sisseton Indian Reservation (Also ND)
46980	Onaka	61740	Stockholm
47060	O'Neil (Township of)	61780	Stockholm (Township of)
47460	Orient	61980	Strandburg
47500	Orient (Township of)	64140	Troy
49780	Pioneer (Township of)	64180	Troy (Township of)
52300	Pulaski (Township of)	64700	Twin Brooks
52310	Pulaski (Unorganized Territory of)	64740	Twin Brooks (Township of)
55540	Rockham	66900	Vernon (Township of)
57620	Saratoga (Township of)		<b>Gregory County</b>
58180	Seneca	06220	Bonesteel
58540	Sherman (Township of)	08700	Burke
59960	Southwest Faulk (Unorganized Territory of)	08740	Burke (Township of)

<b>FIPS ID</b>	<b>Name</b>	<b>FIPS ID</b>	<b>Name</b>
08750	Burke Civil (Township of)	29090	Hilland
09895	Carlock	34160	Kirley
09900	Carlock (Township of)	39390	Lucerne
15300	Dallas	41300	Mattison (Township of)
16580	Dickens (Township of)	42140	Midland
16660	Dixon	42300	Milesville
16700	Dixon (Township of)	43220	Moenville
17800	East Gregory (Unorganized Territory of)	46020	Nowlin
18260	Edens (Township of)	47900	Ottumwa
18940	Ellston (Township of)	49300	Philip
20380	Fairfax	51510	Powell
20420	Fairfax (Township of)	70360	West Fork
22300	Fort Randall	70375	West Haakon (Unorganized Territory of)
26180	Gregory		<b>Hamlin County</b>
28420	Herrick	01135	Alsville
32940	Jones (Township of)	07020	Brantford (Township of)
35740	Landing Creek (Township of)	08060	Bryant
38540	Lone Star (Township of)	10500	Castlewood
39340	Lucas	10540	Castlewood (Township of)
45582	North Gregory (Unorganized Territory)	12860	Cleveland (Township of)
48680	Paxton	16100	Dempster
50780	Pleasant Valley (Township of)	16140	Dempster (Township of)
52920	Randall (Township of)	16740	Dixon (Township of)
54300	Rhoades (Township of)	19980	Estelline
55980	Rosebud Indian Reservation	20020	Estelline (Township of)
57860	Schriever (Township of)	21860	Florence (Township of)
59854	Southeast Gregory (Unorganized Territory)	23660	Garfield (Township of)
61020	Spring Valley (Unorganized Territory of)	26780	Hamlin (Township of)
57060	St. Charles	27820	Hayti
57100	St. Charles (Township of)	27860	Hayti (Township of)
61460	Star Valley (Township of)	27940	Hazel
65180	Union (Township of)	34260	Kones Corner
70370	West Gregory (Unorganized Territory of)	35460	Lake Norden
70900	Whetstone (Township of)	45340	Norden (Township of)
	<b>Haakon County</b>	47300	Opdahl (Township of)
05600	Billsburg	48060	Oxford (Township of)
17810	East Haakon (Unorganized Territory of)	61820	Stone Bridge
18570	Elbon	63340	Thomas
25140	Grandfield (Township of)		<b>Hand County</b>
26310	Grindstone		Alden (Township of)
27710	Hartley	00780	

<b>FIPS ID</b>	<b>Name</b>	<b>FIPS ID</b>	<b>Name</b>
01100	Alpha (Township of)	60380	Spring (Township of)
01380	Ames	60780	Spring Hill (Township of)
03820	Bates (Township of)	60820	Spring Lake (Township of)
08535	Burdette	57180	St. Lawrence
08540	Burdette (Township of)	57220	St. Lawrence (Township of)
09220	Campbell (Township of)	66500	Vayland
09940	Carlton (Township of)	70140	Wessington
10700	Cedar (Township of)	70860	Wheaton (Township of)
13540	Como (Township of)	73260	York (Township of)
15390	Danforth		<b>Hanson County</b>
20700	Fairview (Township of)	00820	Alexandria
21900	Florence (Township of)	05260	Beulah (Township of)
24340	Gilbert (Township of)	18340	Edgerton (Township of)
24500	Glendale (Township of)	19420	Emery
25100	Grand (Township of)	19820	Epiphany
25980	Greenleaf (Township of)	20740	Fairview (Township of)
27340	Harrison (Township of)	21060	Farmer
29060	Hiland (Township of)	23220	Fulton
29660	Holden (Township of)	26940	Hanson (Township of)
30540	Howell (Township of)	32420	Jasper (Township of)
30860	Hulbert (Township of)	50100	Plano
37780	Linn (Township of)	50140	Plano (Township of)
38260	Logan (Township of)	50380	Pleasant (Township of)
42180	Midland (Township of)	55140	Riverside
42460	Miller	55580	Rockport
42500	Miller (Township of)	55620	Rockport Colony
42580	Miller Dale Colony	56060	Rosedale (Township of)
43300	Mondamin (Township of)	56140	Rosedale Colony
45795	Northwest Hand (Unorganized Territory)	60860	Spring Lake (Township of)
46580	Ohio (Township of)	63020	Taylor (Township of)
47220	Ontario (Township of)	69540	Wayne (Township of)
48340	Park (Township of)	72780	Worthen (Township of)
48700	Pearl (Township of)		<b>Harding County</b>
50220	Plato (Township of)	08140	Buffalo
50820	Pleasant Valley (Township of)	09260	Camp Crook
51300	Polo	25380	Grandview (Township of)
53940	Ree Heights	26560	Gustave
53980	Ree Heights (Township of)	27010	Harding
55100	Riverside (Township of)	33330	Karinen
55420	Rockdale (Township of)	34620	Ladner
56220	Rose Hill (Township of)	39420	Ludlow

<b>FIPS ID</b>	<b>Name</b>	<b>FIPS ID</b>	<b>Name</b>
45585	North Harding (Unorganized Territory)	20300	Fair (Township of)
52780	Ralph	22420	Foster (Township of)
53580	Redig	23020	Freeman
54180	Reva	24140	German (Township of)
59420	Sky Ranch (Boys Home)	25420	Grandview (Township of)
59865	South Harding (Unorganized Territory)	33340	Kassel (Township of)
62780	Table Mountain (Township of)	33380	Kaylor
64660	Twin (Township of)	33420	Kaylor (Township of)
65220	Union (Township of)	34420	Kulm (Township of)
66940	Vessey (Township of)	36940	Liberty (Township of)
	<b>Hughes County</b>	40740	Marcy Colony
01215	Alto	41420	Maxwell Colony
06180	Blunt	41980	Menno
07100	Bretton (Township of)	42620	Milltown
08980	Butte (Township of)	42660	Milltown (Township of)
09380	Canning	43260	Molan (Township of)
14835	Crow Creek (Unorganized Territory of)	44900	New Elm Springs Colony
14860	Crow Creek Indian Reservation	46300	Oak Hollow (Township of)
15780	De Grey	46900	Olivet
15820	De Grey (Township of)	48460	Parkston
25745	Gray Goose	50420	Pleasant (Township of)
27420	Harrold	58340	Sharon (Township of)
27460	Harrold (Township of)	58860	Silver Lake (Township of)
38300	Logan (Township of)	61420	Starr (Township of)
45590	North Hughes (Unorganized Territory of)	62500	Susquehanna (Township of)
49600	Pierre	62620	Sweet (Township of)
49610	Pierre Municipal Airport	64020	Tripp
50860	Pleasant Valley (Township of)	64260	Tschetter Colony
52620	Raber (Township of)	66140	Valley (Township of)
56510	Rousseau	72420	Wittenberg (Township of)
66100	Valley (Township of)	72470	Wolf Creek
69820	Webster (Township of)	72460	Wolf Creek (Township of)
70390	West Hughes (Unorganized Territory of)	72500	Wolf Creek Colony
	<b>Hutchinson County</b>		<b>Hyde County</b>
04060	Beardsley	03540	Banner (Township of)
09700	Capital (Township of)	06740	Bramhall (Township of)
12420	Clayton	11150	Central Hyde (Unorganized Territory of)
12460	Clayton (Township of)	14840	Crow Creek (Unorganized Territory of)
14780	Cross Plains (Township of)	14860	Crow Creek Indian Reservation
16620	Dimock	16420	Dewey (Township of)
19140	Elm Springs Colony	16980	Douglas (Township of)

<b>FIPS ID</b>	<b>Name</b>	<b>FIPS ID</b>	<b>Name</b>
17540	Eagle (Township of)	49700	Pine Ridge Indian Reservation
18100	Eden (Township of)	51460	Potato Creek
28980	Highmore	59856	Southeast Jackson (Unorganized Territ
29020	Highmore (Township of)	59962	Southwest Jackson (Unorganized Territ
29580	Holabird	61220	Stamford
29620	Holabird (Township of)	68340	Wall (Township of)
31340	Illinois (Township of)	68580	Wanblee
37420	Lincoln (Township of)	70645	West Washabaugh (Unorganized Territ
45595	North Hyde (Unorganized Territory of)	70660	Weta
49100	Peno (Township of)	70700	Weta (Township of)
51740	Pratt (Township of)		<b>Jerauld County</b>
60900	Spring Lake (Township of)	01020	Alpena
61580	Stephan	01060	Alpena (Township of)
65260	Union (Township of)	01580	Anina (Township of)
66180	Valley (Township of)	05940	Blaine (Township of)
66460	Van Order (Township of)	11580	Chery (Township of)
69060	Washington (Township of)	14820	Crow (Township of)
71740	William Hamilton (Township of)	14900	Crow Lake
03120	Badlands National Park	14940	Crow Lake (Township of)
04620	Belvidere	15260	Dale (Township of)
04660	Belvidere (Township of)	22700	Franklin (Township of)
	<b>Jackson County</b>	27140	Harmony (Township of)
05340	Big Buffalo (Township of)	35780	Lane
09100	Cactus Flat	38340	Logan (Township of)
14220	Cottonwood	40980	Marlar (Township of)
17830	East Jackson (Unorganized Territory of)	41820	Media (Township of)
17965	East Washabaugh (Unorganized Territo	50460	Pleasant (Township of)
25460	Grandview (Township of)	61180	Spring Valley Colony
25520	Grandview II (Township of)	67460	Viola (Township of)
29460	Hisle	70220	Wessington Springs
31580	Indian Creek (Township of)	70260	Wessington Springs (Township of)
31620	Interior		<b>Jones County</b>
31660	Interior (Township of)	03580	Banner (Township of)
32780	Jewett (Township of)	06500	Bovine (Township of)
33180	Kadoka	08180	Buffalo (Township of)
33220	Kadoka (Township of)	09620	Capa
33225	Kadoka Junction	09660	Capa (Township of)
37860	Little Buffalo (Township of)	11152	Central Jones (Unorganized Territory of)
38940	Long Valley	17020	Draper
45800	Northwest Jackson (Unorganized Territo	70060	Draper (Township of)
49310	Philip Junction	17380	Dunkel (Township of)

<b>FIPS ID</b>	<b>Name</b>	<b>FIPS ID</b>	<b>Name</b>
25500	Grandview (Township of)	28460	Hetland
28820	Highland (Township of)	32020	Iroquois
34220	Kolls (Township of)	32060	Iroquois (Township of)
37460	Lincoln (Township of)	35500	Lake Preston
43740	Morgan (Township of)	36580	Le Sueur (Township of)
44220	Mullen (Township of)	40460	Manchester
44260	Murdo	40500	Manchester (Township of)
44300	Murdo (Township of)	41260	Mathews (Township of)
44380	Mussman (Township of)	46780	Oldham
45597	North Jones (Unorganized Territory of)	47820	Osceola
45805	Northwest Jones (Unorganized Territory of)	60220	Spirit Lake (Township of)
46420	Oakton (Township of)	60940	Spring Lake (Township of)
46620	Okaton	71540	Whitewood (Township of)
46640	Okaton (Township of)		<b>Lake County</b>
54820	Rich Valley (Unorganized Territory of)	03180	Badus (Township of)
54700	Richland (Township of)	11460	Chautauqua
58060	Scovil (Township of)	11660	Chester
59780	South Creek (Township of)	11700	Chester (Township of)
65300	Union (Township of)	12380	Clarno (Township of)
66380	Van Metre	13660	Concord (Township of)
66420	Van Metre (Township of)	21220	Farmington (Township of)
67540	Virgil (Township of)	22740	Franklin
68620	War Creek (Township of)	22780	Franklin (Township of)
69100	Washington (Unorganized Territory of)	25020	Graceville Colony
70465	Westover	28260	Herman (Township of)
70460	Westover (Township of)	33140	Junius
71780	Williams Creek (Township of)	35660	Lake View (Township of)
73420	Zickrick (Township of)	36500	Le Roy (Township of)
	<b>Kingsbury County</b>	40220	Madison
02180	Arlington	46060	Nunda
03060	Badger	46100	Nunda (Township of)
03100	Badger (Township of)	47540	Orland
03340	Baker (Township of)	47580	Orland (Township of)
03420	Bancroft	49060	Peninsula Park
16260	De Smet	51710	Prairie Village
16300	De Smet (Township of)	52860	Ramona
16220	Denver (Township of)	56980	Rutland
19860	Erwin	57020	Rutland (Township of)
19900	Esmond	59580	Smiths Park
19940	Esmond (Township of)	62180	Summit (Township of)
27700	Hartland (Township of)	69580	Wayne (Township of)

<b>FIPS ID</b>	<b>Name</b>	<b>FIPS ID</b>	<b>Name</b>
70020	Wentworth	67190	Victoria
70060	Wentworth (Township of)	71580	Whitewood
72100	Winfred	72670	Woodville
72140	Winfred (Township of)	73180	Yates
<b>Lawrence County</b>		<b>Lincoln County</b>	
05860	Blacktail	04980	Beresford
07720	Brownsville	07660	Brooklyn (Township of)
11140	Central City	09500	Canton
11820	Cheyenne Crossing	09540	Canton (Township of)
14680	Crook City	15620	Dayton (Township of)
15700	Deadwood	15900	Delapre (Township of)
17340	Dumont	15940	Delaware (Township of)
19060	Elmore	18140	Eden (Township of)
19580	Englewood	20780	Fairview
21020	Fantail	20820	Fairview (Township of)
23260	Galena	25620	Grant (Township of)
26110	Greenwood	27260	Harrisburg
26900	Hanna	28860	Highland (Township of)
34140	Kirk	30740	Hudson
36220	Lead	36060	La Valley (Township of)
40390	Maitland	36380	Lennox
41375	Maurice	37500	Lincoln (Township of)
44490	Nahant	39620	Lynn (Township of)
44700	Nemo	43210	Moe
45600	North Lawrence (Unorganized Territory of)	44530	Naomi
45715	North Spearfish	45900	Norway (Township of)
46010	Novak	45990	Norway Center
47620	Orohondo	49260	Perry (Township of)
51140	Pluma	50500	Pleasant (Township of)
51885	Preston	58590	Shindler
56480	Roubaix	59020	Sioux Falls
57700	Savoy	60580	Springdale (Township of)
59870	South Lawrence (Unorganized Territory of)	60100	Tea
60020	Spearfish	72820	Worthing
57260	St. Onge	<b>Lyman County</b>	
57300	St. Onge (Township of)	01620	Annin (Township of)
63220	Terraville	01860	Applegate (Township of)
63230	Terry	03220	Bailey (Township of)
63630	Tinton	05740	Black Dog (Unorganized Territory of)
63710	Tomahawk	07820	Brule (Township of)
64090	Trojan	09020	Butte (Township of)

<b>FIPS ID</b>	<b>Name</b>	<b>FIPS ID</b>	<b>Name</b>
14310	Council House	71300	White River (Township of)
16940	Dorman (Township of)		<b>Marshall County</b>
17700	Earling (Township of)	01420	Amherst
18420	Edna (Township of)	07380	Britton
20500	Fairland (Township of)	08220	Buffalo (Township of)
26420	Grouse Creek (Township of)	15660	Dayton (Township of)
29380	Hilmoe (Township of)	17300	Dumarce (Township of)
29980	Hope (Township of)	18180	Eden
31700	Iona	18220	Eden (Township of)
31740	Iona (Township of)	22180	Fort (Township of)
33580	Kennebec	26740	Hamilton (Township of)
33620	Kennebec (Township of)	28540	Hickman (Township of)
34660	Lafayette (Township of)	29140	Hillhead
36980	Liberty (Township of)	33900	Kidder
39180	Lower Brule	34500	La Belle (Township of)
39220	Lower Brule Indian Reservation	34940	Lake (Township of)
39460	Lund (Township of)	35220	Lake City
39570	Lyman	35640	Lake Traverse (Sisseton) Indian Reserva
39820	McClure (Unorganized Territory of)	35820	Langford
43620	Moore (Township of)	39100	Lowell (Township of)
43820	Morningside (Township of)	41020	Marlow
45570	Northeast Lyman (Unorganized Territo	39980	McKinley (Township of)
46180	Oacoma	42540	Miller (Township of)
46220	Oacoma (Township of)	44740	Newark
50540	Pleasant (Township of)	44780	Newark (Township of)
51780	Pratt (Township of)	45020	Newport (Township of)
51820	Presho	45380	Nordland (Township of)
51860	Presho (Township of)	50900	Pleasant Valley (Township of)
54020	Reliance	53620	Red Iron Lake (Township of)
54060	Reliance (Township of)	59220	Sisseton (Township of)
54260	Rex (Township of)	59340	Sisseton Indian Reservation (Also ND)
55860	Rose (Township of)	59980	Spain
55980	Rosebud Indian Reservation	61540	Stena (Township of)
56540	Rowe (Township of)	66540	Veblen
58940	Sioux (Township of)	66580	Veblen (Township of)
59875	South Lyman (Unorganized Territory of)	67100	Victor (Township of)
61900	Stony Butte (Township of)	69500	Waverly (Township of)
62740	Sylvia (Township of)	70280	West Britton
63820	Tracy (Township of)	70420	Weston (Township of)
67620	Vivian	70980	White (Township of)
67660	Vivian (Township of)	72300	Wisner (Township of)

<b>FIPS ID</b>	<b>Name</b>	<b>FIPS ID</b>	<b>Name</b>
	<b>McCook County</b>	67980	Wacker (Township of)
04820	Benton (Township of)	69700	Weber (Township of)
07180	Bridgewater	70400	West McPherson (Unorganized Territory)
07220	Bridgewater (Township of)	70740	Wetonka
07540	Brookfield (Township of)	71820	Willow (Township of)
09300	Canistota		<b>Meade County</b>
09340	Canistota (Township of)	02890	Avance
10940	Center	03980	Bear Butte
19460	Emery (Township of)		Belle Fourche-Cheyenne Valleys (Unorg.
25660	Grant (Township of)	04400	of)
25940	Greenland (Township of)	04760	Bend
32580	Jefferson (Township of)	05140	Bethlehem
43500	Montrose	05780	Blackhawk
43540	Montrose (Township of)	06210	Boneita Springs
48740	Pearl (Township of)	10830	Cedar Canyon
52900	Ramsey (Township of)	11300	Champion Siding
54740	Richland (Township of)	15255	Dakota No. 52 (Township of)
56740	Rumpus Ridge	15340	Dalzell
57340	Salem	17580	Eagle (Township of)
57380	Salem (Township of)	18980	Ellsworth Air Force Base
60060	Spencer	19100	Elm Springs
61060	Spring Valley (Township of)	19660	Enning
61300	Stanley Corner	20540	Fairpoint
62420	Sun Prairie (Township of)	20980	Faith
65340	Union (Township of)	22220	Fort Meade
65580	Unityville	27770	Haydraw
	<b>McPherson County</b>	28220	Hereford
09820	Carl (Township of)	30420	Howard (Township of)
11155	Central McPherson (Unorganized Territory)	30580	Howes
20180	Eureka	35540	Lakeside (Township of)
26060	Greenway	40700	Marcus
29340	Hillsvie	41380	Maurine
29540	Hoffman (Township of)	44180	Mud Butte
36460	Leola	45605	North Meade (Unorganized Territory of)
37540	Lincoln (Township of)		Northern Cheyenne Indian Reservation T
38860	Long Lake (corporate name for Longlake)	45578	Lands
38900	Long Lake Colony	47260	Opal
38820	Longlake (corporate name Long Lake)	49500	Piedmont
40260	Madra	49900	Plainview
60540	Spring Creek Colony	53700	Redowl
67940	Wachter (Township of)	59610	Smithville (Township of)

<b>FIPS ID</b>	<b>Name</b>	<b>FIPS ID</b>	<b>Name</b>
59965	Southwest Meade (Unorganized Territory of)		<b>Miner County</b>
61860	Stoneville	00300	Adams (Township of)
62100	Sturgis	02140	Argonne
62150	Sulphur	04100	Beaver (Township of)
63580	Tilford	04500	Bellevue (Township of)
65380	Union (Township of)	09420	Canova
65540	Union Center	09460	Canova (Township of)
65660	Upper Red Owl (Township of)	10220	Carthage
67260	Viewfield	10260	Carthage (Township of)
67860	Volunteer	12700	Clearwater (Township of)
71260	White Owl	12980	Clinton (Township of)
	<b>Mellette County</b>	13010	Cloverleaf Colony
03140	Bad Nation (Township of)	19820	Epiphany
03135	Badnation	21340	Fedora
05820	Blackpipe (Township of)	25060	Grafton (Township of)
09060	Butte (Township of)	26020	Green Valley (Township of)
10740	Cedar Butte	28060	Henden (Township of)
10780	Cedarbutte (Unorganized Territory of)	30460	Howard
11160	Central Mellette (Unorganized Territory of)	30500	Howard (Township of)
13100	Cody (Township of)	42740	Miner (Township of)
13860	Corn Creek (Township of)	53860	Redstone (Township of)
14300	Cottonwood Valley (Township of)	55380	Rock Creek (Township of)
20860	Fairview (Township of)	56420	Roswell
43940	Mosher	56460	Roswell (Township of)
43980	Mosher (Township of)	66780	Vermillion (Township of)
45040	New Surprise Valley (Township of)	67340	Vilas
45420	Norris		<b>Minnehaha County</b>
45460	Norris (Township of)	03380	Baltic
49620	Pine Creek (Township of)	04740	Benclare
52060	Prospect (Township of)	04860	Benton (Township of)
52380	Pure Water (Township of)	06390	Booge
53540	Red Fish (Township of)	06840	Brandon
54940	Ring Thunder (Township of)	06780	Brandon
55180	Riverside (Township of)	06820	Brandon (Township of)
55660	Rocky Ford (Township of)	06860	Brandon Park
55900	Rosebud (Township of)	06900	Brandon Terrace
55980	Rosebud Indian Reservation	08260	Buffalo (Township of)
56780	Running Bird (Township of)	08360	Buffalo Ridge
62460	Surprise Valley (Township of)	08380	Buffalo Trading Post
71340	White River	08660	Burk (Township of)
72620	Wood	12660	Clear Lake (Township of)

<b>FIPS ID</b>	<b>Name</b>	<b>FIPS ID</b>	<b>Name</b>
13380	Colton	62980	Taopi (Township of)
13500	Commerce	66260	Valley Springs
14020	Corson	66300	Valley Springs (Township of)
14340	Crampton Spur	68460	Wall Lake (Township of)
14740	Crooks	69620	Wayne (Township of)
15980	Dell Rapids	69860	Webster Grove
16020	Dell Rapids (Township of)	69940	Wellington (Township of)
17940	East Sioux Falls		<b>Moody County</b>
18380	Edison (Township of)	00940	Alliance (Township of)
18820	Ellis	06020	Blinsmon (Township of)
21740	Fleetwood	12060	Clare (Township of)
23100	Froehlich Addition	13220	Colman
23820	Garretson	13260	Colman (Township of)
25180	Grand Meadow (Township of)	18460	Egan
27540	Hartford	18500	Egan (Township of)
27580	Hartford (Township of)	19740	Enterprise (Township of)
27900	Hayward Addition	21540	Flandreau
28900	Highland (Township of)	21580	Flandreau (Township of)
30900	Humboldt	21620	Flandreau Indian Reservation
30940	Humboldt (Township of)	23060	Fremont (Township of)
30950	Huntimer	26500	Grovena (Township of)
32800	Joe Foss Field (Airport)	32620	Jefferson (Township of)
36180	Lawrence Spur	35180	Lake Campbell
36700	Level Siding	38500	Lone Rock (Township of)
38380	Logan (Township of)	38660	Lone Tree
39740	Lyons	39660	Lynn (Township of)
39780	Lyons (Township of)	55260	Riverview (Township of)
40660	Mapleton (Township of)	59100	Sioux Falls Junction
42215	Midway	60460	Spring Creek (Township of)
45820	Norton Acres	63940	Trent
48220	Palisade (Township of)	65420	Union (Township of)
48580	Pathfinder Spur	68660	Ward
52340	Pumpkin Center	68700	Ward (Township of)
53740	Red Rock (Township of)		<b>Pennington County</b>
54140	Renner	00530	Ajax
56580	Rowena	02520	Ash (Township of)
58580	Sherman	03110	Badlands (Unorganized Territory of)
59020	Sioux Falls	03120	Badlands National Park
59060	Sioux Falls (Township of)	05300	Big Bend
60300	Split Rock (Township of)	06620	Box Elder
62540	Sverdrup (Township of)	09280	Canadaville

<b>FIPS ID</b>	<b>Name</b>	<b>FIPS ID</b>	<b>Name</b>
09600	Canyon City	41415	Mawl Springs
09780	Caputa	39930	McGee
10380	Castle Butte (Township of)	42050	Merritt
10425	Castle Butte No. 18 (Township of)	44070	Mount Rushmore (Unorganized Territory)
10820	Cedar Butte (Township of)	44080	Mount Rushmore National Memorial
11165	Central Pennington (Unorganized)	44340	Murphy
11740	Cheyenne (Township of)	44410	Myersville
11850	Cheyenne No. 21 (Township of)	44460	Mystic
13355	Colonial Pine Hills	45060	New Underwood (Underwood)
13580	Conata	45574	Northeast Pennington (Unorganized Territory)
13620	Conata (Township of)	47430	Oreville
14540	Creighton	47940	Owanka
14620	Creston	47980	Owanka (Township of)
14700	Crooked Creek (Township of)	48900	Pedro
15350	Dalzell Canyon (Unorganized Territory of)	09103	Pennington (County)
15770	Deerfield	49140	Peno (Township of)
17730	East Central Pennington (Unorganized)	52500	Quinn
18980	Ellsworth Air Force Base	52540	Quinn (Township of)
20220	Everist Spur	52580	Quinn Table
20900	Fairview (Township of)	52740	Rainy Creek No. 19 (Township of)
20950	Fairview No. 22 (Township of)	52720	Rainy Creek/Cheyenne (Township of)
21100	Farmingdale	52980	Rapid City
21510	Five Points	52987	Rapid City East (Unorganized Territory of)
21660	Flat Butte (Township of)	52994	Rapid City Regional Airport
24950	Gossage Memorial	53007	Rapid Valley
30100	H O Siding	53420	Redfern
27190	Harney	54100	Renel Heights
27890	Hayward	54150	Reno
29100	Hill City	55340	Rochford
29420	Hisega	55460	Rockerville
31100	Huron (Township of)	57780	Scenic
31150	Huron No. 10 (Township of)	57820	Scenic (Township of)
31380	Imlay	57850	Schaeferville
31420	Imlay (Township of)	58660	Shyne (Township of)
32820	Johnson Siding	58780	Silver City
33680	Kennedyville	59460	Skyway
33820	Keystone	62030	Stratosphere Bowl
35280	Lake Creek (Township of)	62340	Sunnyside (Township of)
35260	Lake Creek (Unorganized Territory of)	63570	Tigerville
35300	Lake Flat (Township of)	64900	Underwood (New Underwood)
35420	Lake Hill (Township of)	67380	Villa Ranchoero

<b>FIPS ID</b>	<b>Name</b>	<b>FIPS ID</b>	<b>Name</b>
67420	Villa Trailer Court	31430	Imogene
68380	Wall	31540	Independence (Township of)
68600	Warbonnet	31550	Independence (Unorganized Territory of)
69140	Wasta	36340	Lemmon
69180	Wasta (Township of)	37020	Liberty (Township of)
70475	West Pennington (Unorganized Territory of)	37580	Lincoln (Township of)
71660	Wicksville	38060	Lodgepole
	<b>Perkins County</b>	38100	Lodgepole (Township of)
00220	Ada (Township of)	38700	Lone Tree (Township of)
01460	Anderson (Township of)	40420	Maltby (Township of)
01660	Antelope (Township of)	41060	Marshfield (Township of)
03740	Barrett (Township of)	41140	Martin (Township of)
04180	Beck (Township of)	41620	Meadow
05620	Bison	41660	Meadow (Township of)
05660	Bison (Township of)	43660	Moreau (Township of)
05670	Bixby	50180	Plateau (Township of)
07920	Brushy (Township of)	50940	Pleasant Valley (Township of)
08580	Burdick (Township of)	51660	Prairie City
10300	Cash (Township of)	52700	Rainbow (Township of)
10420	Castle Butte (Township of)	55500	Rockford (Township of)
11335	Chance	57900	Scotch Cap (Township of)
11340	Chance (Township of)	58100	Seim (Township of)
11420	Chaudoin (Township of)	58260	Shadehill
12300	Clark (Township of)	58700	Sidney (Township of)
13090	Coal Springs	59710	Sommerville
15530	Date	59740	Sorum
16460	De Witt (Township of)	59880	South Perkins (Unorganized Territory of)
17170	Duck Creek (Unorganized Territory of)	59970	Southwest Perkins (Unorganized Territory of)
17260	Duell (Township of)	62065	Strool
17870	East Perkins (Unorganized Territory of)	62060	Strool (Township of)
19620	Englewood (Township of)	62160	Summerville
21700	Flat Creek (Township of)	63860	Trail (Township of)
21780	Flint Rock (Township of)	64530	Turtle Mountain Indian Reservation Trust
22460	Foster (Township of)	65740	Usta
22940	Fredlund (Township of)	65860	Vail (Township of)
24580	Glendo (Township of)	67060	Vickers (Township of)
25220	Grand River (Township of)	67300	Viking (Township of)
26620	Hall (Township of)	67900	Vrooman (Township of)
28940	Highland (Township of)	69960	Wells (Township of)
30060	Horse Creek (Township of)	70300	West Central Perkins (Unorganized)
30660	Hudgins (Township of)	70485	West Perkins (Unorganized Territory of)

<b>FIPS ID</b>	<b>Name</b>	<b>FIPS ID</b>	<b>Name</b>
71020	White Butte		<b>Roberts County</b>
71060	White Butte (Township of)	00500	Agency (Township of)
71100	White Hill (Township of)	00520	Agency Village
71620	Whitney (Township of)	01220	Alto (Township of)
72020	Wilson (Township of)	04220	Becker (Township of)
72980	Wyandotte (Township of)	06420	Bossko (Township of)
73380	Zeona	08100	Bryant (Township of)
	<b>Potter County</b>	12020	Claire City
01900	Appomattox (Township of)	13940	Corona
02020	Arena (Township of)	15220	Dahlberg
02420	Artichoke (Township of)	16530	Diamond
02980	Avon Springs (Township of)	17140	Dry Wood Lake (Township of)
09580	Canton (Township of)	17780	Easter (Township of)
10060	Carr (Township of)	19780	Enterprise (Township of)
10580	Catron (Township of)	23700	Garfield (Township of)
11190	Central Potter (Unorganized Territory of)	24060	Geneseo (Township of)
14980	Cunningham (Township of)	24775	Goodwill
17880	East Potter (Unorganized Territory of)	24780	Goodwill (Township of)
18580	Elida (Township of)	25700	Grant (Township of)
20940	Fairview (Township of)	26820	Hammer
21300	Fayette (Township of)	27020	Harmon (Township of)
22140	Forest City (Township of)	27500	Hart (Township of)
24260	Gettysburg	27620	Hartford Beach
24300	Gettysburg (Township of)	28500	Hiawatha Beach
24940	Gorman	32260	Jackson
30300	Hoven	34980	Lake (Township of)
30340	Hoven (Township of)	35640	Lake Traverse (Sisseton) Indian Reserva
36260	Lebanon	36140	Lawrence (Township of)
37620	Lincoln (Township of)	36300	Lee (Township of)
38420	Logan (Township of)	37100	Lien (Township of)
39140	Lowell (Township of)	37740	Linden Beach
39380	Lucas (Township of)	37980	Lockwood (Township of)
45620	North Riverside (Township of)	38780	Long Hollow (Township of)
48020	Owattona (Township of)	40300	Madsen Beach
51060	Pleasant View (Township of)	42820	Minnesota (Township of)
56620	Roy (Township of)	44820	New Effington
57580	Sanner (Township of)	45940	Norway (Township of)
59860	South Forest City (Township of)	47140	One Road (Township of)
59900	South Riverside (Township of)	47660	Ortley
63700	Tolstoy	47700	Ortley (Township of)
70590	West Potter (Unorganized Territory of)	48940	Peever

<b>FIPS ID</b>	<b>Name</b>	<b>FIPS ID</b>	<b>Name</b>
56340	Rosholt	72700	Woonsocket
57855	Schmidt Landing	72740	Woonsocket (Township of)
58300	Shady Beach		<b>Shannon County</b>
59260	Sisseton	03120	Badlands National Park
59300	Sisseton (Township of)	03860	Batesland
59340	Sisseton Indian Reservation (Also ND)	16180	Denby
59660	So Dak Park	17920	East Shannon (Unorganized Territory of)
59830	South Dakota Park	34460	Kyle
60745	Spring Grove	40540	Manderson
60740	Spring Grove (Township of)	40550	Manderson-White Horse Creek
60620	Springdale (Township of)	46540	Oglala
62220	Summit	49660	Pine Ridge
62260	Summit (Township of)	49700	Pine Ridge Indian Reservation
63180	Tekakwitha	51340	Porcupine
67140	Victor	53820	Red Shirt
67180	Victor (Township of)	55665	Rockyford
71380	White Rock	59505	Slim Butte
71420	White Rock (Township of)	70625	West Shannon (Unorganized Territory of)
71980	Wilmot	72900	Wounded Knee
	<b>Sanborn County</b>		<b>Spink County</b>
00420	Afton (Township of)	01700	Antelope (Township of)
02380	Artesian	02540	Ashton
04780	Benedict (Township of)	02660	Athol
08940	Butler (Township of)	02700	Athol (Township of)
15180	Cuthbert	04420	Belle Plaine (Township of)
16540	Diana (Township of)	04580	Belmont (Township of)
18780	Elliott (Township of)	04900	Benton (Township of)
21230	Farwell	04940	Beotia (Township of)
21940	Floyd (Township of)	06085	Bloomfield
22100	Forestburg	07060	Brentford
32300	Jackson (Township of)	08300	Buffalo (Township of)
36620	Letcher	09740	Capitola (Township of)
36660	Letcher (Township of)	12340	Clark Colony
38460	Logan (Township of)	12940	Clifton (Township of)
47020	Oneida (Township of)	13700	Conde
53140	Ravenna (Township of)	13740	Conde (Township of)
56950	Ruskin Park	13900	Cornwall (Township of)
58820	Silver Creek (Township of)	14415	Crandon
64820	Twin Lake (Township of)	14420	Crandon (Township of)
65460	Union (Township of)	16820	Doland
68860	Warren (Township of)	17460	Duxbury

<b>FIPS ID</b>	<b>Name</b>	<b>FIPS ID</b>	<b>Name</b>
20260	Exline (Township of)	27780	Hayes
22580	Frankfort	34600	Lacy
22620	Frankfort (Township of)	39220	Lower Brule Indian Reservation
23360	Gallup	43060	Mission Ridge
23740	Garfield (Township of)	45727	North Stanley (Unorganized Territory of)
24540	Glendale Colony	47710	Orton
25780	Great Bend (Township of)	57590	Sansarc
26460	Groveland (Township of)	59945	South Stanley (Unorganized Territory of)
27180	Harmony (Township of)	63250	Teton
27380	Harrison (Township of)	69980	Wendte
29300	Hillside Colony		<b>Sully County</b>
32660	Jefferson (Township of)	00460	Agar
35980	La Prairie (Township of)	17660	Eakin
34610	LaDelle	17950	East Sully (Unorganized Territory of)
35020	Lake (Township of)	46650	Okobojo
37660	Lincoln (Township of)	47180	Onida
38140	Lodi (Township of)	70630	West Sully (Unorganized Territory of)
40580	Mansfield		<b>Todd County</b>
41860	Mellette	01740	Antelope
41900	Mellette (Township of)	17955	East Todd (Unorganized Territory of)
45740	Northville	28600	Hidden Timber
45780	Northville (Township of)	35665	Lakeview
46860	Olean (Township of)	37870	Littleburg
51620	Prairie Center (Township of)	42940	Mission
53460	Redfield	46660	Okreek
53500	Redfield (Township of)	46940	Olsonville
54380	Richfield (Township of)	48500	Parmelee
60180	Spink Colony	55940	Rosebud
60320	Spottswood	55980	Rosebud Indian Reservation
60420	Spring (Township of)	59700	Soldier Creek
62300	Sumner (Township of)	60500	Spring Creek
63260	Tetonka (Township of)	57140	St. Francis
63420	Three Rivers (Township of)	64840	Two Strike
64300	Tulare	70635	West Todd (Unorganized Territory of)
64340	Tulare (Township of)	71150	White Horse
64540	Turton		<b>Tripp County</b>
64580	Turton (Township of)	03620	Banner (Township of)
65500	Union (Township of)	04140	Beaver Creek (Township of)
	<b>Stanley County</b>	05700	Black (Township of)
08470	Bunker	07900	Brunson (Township of)
22260	Fort Pierre	08420	Bull Creek (Township of)

<b>FIPS ID</b>	<b>Name</b>	<b>FIPS ID</b>	<b>Name</b>
10140	Carter	61380	Star Prairie (Township of)
10180	Carter (Township of)	61500	Star Valley (Township of)
12500	Clearfield	61660	Stewart (Township of)
13300	Colome	62140	Sully (Township of)
13340	Colome (Township of)	63060	Taylor (Township of)
13780	Condon (Township of)	66220	Valley (Township of)
15020	Curlew (Township of)	69660	Weaver (Township of)
16780	Dog Ear (Township of)	70780	Wewela
18860	Elliston (Township of)	71640	Whitten
23880	Gassman (Unorganized Territory of)	71860	Willow Creek (Township of)
26140	Greenwood (Township of)	72060	Wilson (Township of)
26660	Hamill	72180	Winner
29780	Holsclaw (Township of)	72340	Witten (corporate name New Witten)
30820	Huggins (Township of)	72380	Witten (Township of)
31220	Ideal	72860	Wortman (Township of)
31260	Ideal (Township of)	72940	Wright (Township of)
32100	Irwin (Township of)		<b>Turner County</b>
32980	Jordan (Township of)	07700	Brothersfield (Township of)
32990	Jordan Junction	10980	Center Point
33740	Keyapaha	11060	Centerville
33780	Keyapaha (Township of)	11100	Centerville (Township of)
34060	King (Township of)	11380	Chancellor
35060	Lake (Township of)	11900	Childstown (Township of)
35700	Lamro (Township of)	15380	Daneville (Township of)
37700	Lincoln (Township of)	15540	Davis
38580	Lone Star (Township of)	16860	Dolton
38740	Lone Tree (Township of)	16900	Dolton (Township of)
40100	McNeely (Township of)	24220	Germantown (Township of)
42380	Millboro	29820	Home (Township of)
42420	Millboro (Township of)	29900	Hooker
45100	New Witten (corporate name for Witten)	30980	Hurley
45730	North Tripp (Unorganized Territory of)	31020	Hurley (Township of)
48140	Pahapesto (Township of)	31940	Irene
49940	Plainview (Township of)	40860	Marion
50980	Pleasant Valley (Township of)	40900	Marion (Township of)
51100	Pleasant View (Township of)	40940	Marion Junction (RR Name For Marion)
51980	Progressive (Township of)	42100	Middleton (Township of)
52820	Rames (Township of)	43380	Monroe
55980	Rosebud Indian Reservation	43420	Monroe (Township of)
56100	Rosedale (Township of)	44540	Naomi Spur
56260	Roseland (Township of)	45980	Norway (Township of)

<b>FIPS ID</b>	<b>Name</b>	<b>FIPS ID</b>	<b>Name</b>
48380	Parker	67580	Virginia (Township of)
48420	Parker (Township of)		<b>Walworth County</b>
56180	Rosefield (Township of)	00540	Akaska
57420	Salem (Township of)	17960	East Walworth (Unorganized Territory of)
61100	Spring Valley	24620	Glenham
61140	Spring Valley (Township of)	32460	Java
62580	Swan Lake (Township of)	32500	Java Junction
64420	Turkey Ridge	39260	Lowry
64500	Turner (Township of)	43180	Mobridge
67020	Viborg	58140	Selby
	<b>Union County</b>	59380	Sitka
00700	Alcester	70640	West Walworth (Unorganized Territory of)
00740	Alcester (Township of)		<b>Yankton County</b>
01130	Alsen	02620	Asylum Track
04980	Beresford	11400	Chan Gurney Municipal Airport
05380	Big Sioux (Township of)	23900	Gayville
05420	Big Springs	23940	Gayville (Township of)
05460	Big Springs (Township of)	31940	Irene
07860	Brule (Township of)	32375	Jamesville
11980	Civil Bend (Township of)	32380	Jamesville (Township of)
15250	Dakota Dunes	36540	Lesterville
18620	Elk Point	36710	Lewis and Clark
18660	Elk Point (Township of)	40820	Marindahl (Township of)
19510	Emmet	41500	Mayfield
19500	Emmet (Township of)	41540	Mayfield (Township of)
21980	Foley	42220	Midway
29270	Hill Side	42980	Mission Hill
32700	Jefferson	43020	Mission Hill (Township of)
32740	Jefferson (Township of)	44580	Napa
33100	Junction City	44590	Napa Junction
39860	McCook	48860	Pearsons Corner
39900	McCook Lake (McCook)	59820	South Dakota Human Services Center
42225	Midway	59858	Southeast Yankton (Unorganized)
45220	Nora	64460	Turkey Valley (Township of)
45700	North Sioux City	65780	Utica
51540	Prairie (Township of)	65820	Utica (Township of)
54780	Richland	66340	Valley View
54760	Richland (Unorganized Territory of)	66620	Vedin Corner
59140	Sioux Valley (Township of)	67780	Volin
60100	Spink	67820	Volin (Township of)
60140	Spink (Township of)	68540	Walshtown (Township of)

<b>FIPS ID</b>	<b>Name</b>	<b>FIPS ID</b>	<b>Name</b>
70647	West Yankton	17630	Eagle Butte (Unorganized )
70650	West Yankton (Unorganized)	24380	Glad Valley
73060	Yankton	31980	Iron Lightning
	<b>Ziebach County</b>	45810	North Ziebach (Unorganized Territory of)
07140	Bridger	53340	Red Elm
11410	Chase	53780	Red Scaffold
11540	Cherry Creek	53380	Redelm (Township of)
11860	Cheyenne River Indian Reservation	59975	South Ziebach (Unorganized Territory of)
17420	Dupree	63460	Thunder Butte
17425	Dupree (Unorganized Territory of)		
17620	Eagle Butte		

**Out of State**

99999080	Canada
99999027	Minnesota
99999030	Montana
99999046	South Dakota
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	Meteproterenol (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	Phenylphrine (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

### South Dakota County FIPS Codes

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<b>FIPS ID</b>	<b>Name</b>	<b>FIPS ID</b>	<b>Name</b>
003	Aurora County	051	Grant County
005	Beadle County	053	Gregory County
007	Bennett County	055	Haakon County
009	Bon Homme County	057	Hamlin County
011	Brookings County	059	Hand County
013	Brown County	061	Hanson County
015	Brule County	063	Harding County
017	Buffalo County	065	Hughes County
019	Butte County	067	Hutchinson County
021	Campbell County	069	Hyde County
023	Charles Mix County	071	Jackson County
025	Clark County	073	Jerauld County
027	Clay County	075	Jones County
029	Codington County	077	Kingsbury County
031	Corson County	079	Lake County
033	Custer County	081	Lawrence County
035	Davison County	083	Lincoln County
037	Day County	085	Lyman County
039	Deuel County	087	McCook County
041	Dewey County	089	McPherson County
043	Douglas County	091	Marshall County
045	Edmunds County	093	Meade County
047	Fall River County	095	Mellette County
049	Faulk County	097	Miner County

<b>FIPS ID</b>	<b>Name</b>
099	Minnehaha County
101	Moody County
103	Pennington County
105	Perkins County
107	Potter County
109	Roberts County
111	Sanborn County
113	Shannon County
115	Spink County
117	Stanley County
119	Sully County
121	Todd County
123	Tripp County
125	Turner County
127	Union County
129	Walworth County
135	Yankton County
137	Ziebach County

## 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	South 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		