Interconnection Security Agreement

& Memorandum of Understanding

Between

Risk Management Agency (RMA) &

[System B Name]

For submitting data to the Acreage Crop Reporting Streamlining Initiative (ACRSI) Clearinghouse

Revision: [??]

Date: [Month], [Year]

Document Information

RMA Point of Contact	
Name	
Contact Number	
E-mail Address	
[System B] Point of Contact	
Name	
Contact Number	
E-mail Address	

Document Review			
System ISSPM Name	**System ISSPM Signature**	**Date**	**Comments (if any)**

Distribution List			
Name	**Title**	**Agency/Office**	**Contact Information**

Nondisclosure Statements

All interconnected systems, including those operated by contractor and cloud service providers, shall contain nondisclosure language in the Interconnection Security Agreement (ISA) and Memorandum of Understanding/Agreement (MOU/A) and require a nondisclosure agreement to be signed by all contractors who will access USDA information or information systems. *The Whistleblower Protection Enhancement Act* (WPEA) of 2012, 5 United States Code (U.S.C.) § 2301 et seq. (June 11, 2014) makes it a prohibited personnel practice for Federal agencies to enter into any "nondisclosure policy, form, or agreement" that does not include the following specific language:
"These provisions are consistent with, and do not supersede, conflict with, or otherwise alter the employee obligations, rights, or liabilities created by existing statute or executive order relating to:
(1) Classified information;

(2) Communications to Congress;
(3) The reporting to the Inspector General of a violation of any law, rule, or regulation, or mismanagement, a gross waste of funds, an abuse of authority, or a substantial and specific danger to public health or safety; or

(4) Any other whistleblower protection. The definitions, requirements, obligations, rights, sanctions, and liabilities created by controlling Executive orders and statutory provisions are incorporated into this agreement and are controlling."

Interconnection Security Agreement Authorization

We have carefully reviewed the Interconnection Security Agreement (ISA) between RMA and [System B Name (System Acronym)]. This document has been completed in accordance with the requirements set forth in National Institute of Standards and Technology (NIST) Special Publication (SP) 800-47, *Security Guide for Interconnecting Information Technology Systems*. This agreement will be reviewed annually and will be re-signed by all parties every third year.

RMA Crop Information System (CIS)

Name	Date
X	

RMA Application Owner

Name	Date
X	

Information System Owner

Name	Date
X	

RMA Information System Security Manager

Name	Date
X	

RMA Authorizing Official

[System B Name (System Acronym)]

Name	Date
X	

Information System Owner

Name	Date
X	

[Agency] Information System Security Manager

Name	Date
X	

[System] Authorizing Official

Table of Contents

1 Introduction

A system interconnection is defined as the direct connection of two or more information technology (IT) systems for the purpose of sharing data and other information resources. The NIST SP 800-53, Revision 4 Security Assessment and Authorization - Control 3 (CA-3) primarily refers to connections but uses the terms connections and interconnections interchangeably. An interconnection security agreement (ISA) is used to document connections between systems. The ISA is much more than a contract or service agreement between two agencies/departments/divisions/external entities; the ISA is a security agreement that protects both interconnected systems. The intent behind an ISA is to detail some basic system information and then to document and agree on how the security of the two systems will be maintained. Significant benefits that can be realized through a system connection include: reduced operating costs, greater functionality, improved efficiency, and centralized access to data. Interconnecting IT systems may also strengthen ties among participating organizations by promoting communication and cooperation.

2 Connection Purpose

2.1 System Identification

System A:

USDA RMA's CIS (ACRSI Clearinghouse)

FIPS 199 Categorization: [Moderate]

Authority to Operate (ATO) Date: [August 30, 2017]

System Owner Name: [_____]

Contact Number: [_____]

Email Address: [_____]

System B:

[Department, Agency, Division, External Entity System Name (System Acronym)]

FIPS 199 Categorization: [Low, Moderate or High]

Authority to Operate (ATO) Date: [_____]

System Owner Name: [_____]

Contact Number: [_____]

Email Address: [_____]

2.2 Connection Purpose and Information Shared/Passed

[System B] will provide standardized planting data, as defined by the Geospatial Acreage Reporting Transmission (GART) or Common Acreage Reporting Transmission (CART) file schema, of clients to the Clearinghouse for distribution to those producer's Federal crop

insurance Approved Insurance Provider (AIP) and the Farm Service Agency (FSA). The Clearinghouse will transmit back file status messages only. The submitted GART and/or CART files do contain PII and protected data.

2.3 Information Sensitivity

The data includes names and Taxpayer Identification Numbers of producers, in additional to planting information about a producer's individual farming operation.

3 Business Requirements

3.1 Right to Data

By submitting data to the clearinghouse, *[System B]* certifies that the producers it is acting on behalf of have explicitly authorized *[System B]* to submit such data. *[System B]* must notify the RMA Application Owner] the general method in which this authorization by producers is granted and the RMA Application Owner must approve of that method in writing prior to allowing any submissions. RMA reserves the right to verify this action is taking place as necessary.

3.2 Producer Education

[System B] must ensure any producer whose data is transmitted to the Clearinghouse is aware that:

- The data sent is supporting documentation only. The producer must still certify their acreage reports with FSA and their crop insurance agent as necessary. The certified acreage reports with FSA and the crop insurance agent are the official record for USDA requirements.
- This system is in 'proof of concept stage' only. The USDA and RMA offers no guarantees of the expected results/improvements this process is designed to undertake.
- USDA pledges to offer extraordinary effort to ensure producers are not harmed by use of this process.
- USDA will be conducting greater than normal analysis of their submitted data in order to improve the process.

3.3 Feedback

[System B] will be required to share feedback and analysis of the process as necessary in order to improve the system and business process. The exact mechanism of the feedback will be agreed to by both parties collaboratively based on the scope of submitted data.

4 Connection Specifics

4.1 Connection Method

How are the two systems connected? Direct connect? Virtual Private Network? Over the Internet? FIPS-140-2 compliant encryption?

[System B] will be required to connect to RMA over an IPSEC Virtual Private Network (VPN). The VPN connection will be controlled by the RMA Service Delivery Branch to allow access only to necessary ACRSI Web Services by utilizing firewall policies for restrictions. USDA CA certificates will be used to authenticate the [System B] to RMA.

4.2 Connection Segregation

If the two systems being connected have different FIPS 199 categorizations, how are the systems going to be segregated to ensure that a vulnerability that could be exploited on the lower categorized system cannot be used to compromise the higher categorized system.

Firewall rules will be set up and enforced to ensure that only necessary services are accessible.

5 System Vulnerabilities

One system's vulnerabilities can have an adverse impact on the security of another system, especially when the two systems are connected and sharing information. Because of this, the system owners and the security officers must be aware of the identified vulnerabilities of all the systems that are connected to their system.

At the time of entering into this ISA, the current Plan of Action and Milestones (POA&M) for *[System B]* can be found in Appendix A. Special attention should be paid to any moderate or high vulnerabilities. With this in mind, the system owners of both systems agree that any new vulnerabilities categorized as moderate or higher risk will immediately be sent to the other system's owner/security officer and be added to the system's POA&M if not mitigated.

6 Common/Hybrid Controls

Some connected systems rely heavily on the other connected system for control implementations that are common across the two (or more) systems that are connected. This occurs often when an application resides on a GSS. The GSS provides a certain number of controls to all applications (and possibly other GSSs) that reside on it. For these circumstances, the owner of the system that is inheriting the controls specifies all the controls that are inherited from the other system in the template in Appendix B. Note that the template also contains hybrid controls where the common portion of the control is provided by the GSS. For systems that just share data, this section and the appendix are not applicable.

The system owner of the system that is inheriting controls from the GSS, must check off all inherited/hybrid controls in Appendix C.

7 Incident Reporting

Document the process each system owner will follow in the event of an incident. (Ex: An incident identified with either system will immediately be reported to the other system's owner/security officer.)

Systems support will be initiated and handled through the RMA Service Desk. Development resources will provide support as needed. RMA Service Desk will engage development resources support as needed, specifically during the warranty period.

8 Backups/Updates/Changes

Document who is responsible for performing backups of the data. Who must be notified if any changes are going to be made to either system? How significant does the change need to be to warrant such notification? What notification is required when maintenance will be performed on the system?

RMA Service Delivery Branch will perform routine backups of the systems. All updates and changes to the systems will be reviewed and approved by RMA Service Delivery Branch.

9 User Community

Describe the "user community" that will be served by the interconnection, including their approved access levels and the lowest approval level of any individual who will have access to the interconnection. Also, discuss requirements for background investigations and security clearances, if appropriate.

10 Rules of Behavior

Summarize the aspects of behavior expected from users who will have access to the interconnection. Each system is expected to protect information belonging to the other through the implementation of security controls that protect against intrusion, tampering, and viruses, among others. Do not enter statements of law or policy. If the systems are from different departments or external entities, consider appending both department's/entities rules of behavior to this agreement.

11 Controls

This section is for the documenting of any specific controls that must be maintained in order to ensure the connection is secure.

12 Cost Considerations

There will be no transfers of money in regards to this agreement. All costs are solely born by each party individually.

13 Audit Trail Responsibilities

All submissions will be fully logged by the Clearinghouse. *[System B]* is required to also log transmissions for follow-up and feedback.

14 Topological/Informational Flow Drawing

Provide a topological and/or information flow drawing that clearly shows the systems and their interconnection.

15 Timeline

This agreement will remain in effect for one (1) year after the last date on either Authorizing Official's signature. After one (1) year, this agreement can be continued for an additional two years with concurrence from the ISSPMs for the systems involved. If the parties wish to extend this agreement beyond the three years, they may do so by reviewing, updating, and reauthorizing this agreement. The newly signed agreement should explicitly supersede this agreement, which should be referenced by title and date. If one or both of the parties wish to terminate this agreement prematurely, they may do so with 30 days advanced notice or in the event of a security incident that necessitates an immediate response.

Appendix A. [System B Name] Plan of Action and Milestones

Below is a complete listing of open items from this system's POA&M.

Appendix B. Inherited controls

Below is a complete listing NIST SP 800-53 Rev. 4 Controls. Any controls inherited from the host system will be checked. Hybrid controls, due to their dual nature, are also listed. This listing helps the system owners by explicitly listing those controls that are specifically needed.

NIST 800-53 Rev4						
Control	**Enhancement**	**Applicable FIPS 199 Baseline**	**NIST 800-53 Rev 4 Control Name**	**Common Control**	**Hybrid Control**	**Notes**
AC-1		L,M,H	Access Control Policy and Procedures			
AC-2		L,M,H	Account Management			
	AC-2(1)	M,H				
	AC-2(2)	M,H				
	AC-2(3)	M,H				
	AC-2(4)	M,H				
	AC-2(5)	H				
	AC-2(11)	H				
	AC-2(12)	H				
	AC-2(13)	H				
AC-3		L,M,H	Access Enforcement			
AC-4		M,H	Information Flow Enforcement			
AC-5		M,H	Separation of Duties			
AC-6		M,H	Least Privilege			
	AC-6(1)	M,H				
	AC-6(2)	M,H				

	AC-6(3)	H				
	AC-6(5)	M,H				
	AC-6(9)	M,H				
	AC-6(10)	M,H				
AC-7		L,M,H	Unsuccessful Logon Attempts			
AC-8		L,M,H	System Use Notification			
AC-10		H	Concurrent Session Control			
AC-11		M,H	Session Lock			
	AC-11(1)	M,H				
AC-12		M,H	Session Termination			
AC-14		L,M,H	Permitted Actions without Identification or Authentication			
AC-17		L,M,H	Remote Access			
	AC-17(1)	M,H				
	AC-17(2)	M,H				
	AC-17(3)	M,H				
	AC-17(4)	M,H				
AC-18		L,M,H	Wireless Access			
	AC-18(1)	M,H				
	AC-18(4)	H				
	AC-18(5)	H				
AC-19		L,M,H	Access Control for Mobile Devices			
	AC-19 (5)	M,H				
AC-20		L,M,H	Use of External Information Systems			
	AC-20(1)	M,H				
	AC-20(2)	M,H				
AC-21		M,H	Information Sharing			
AC-22		L,M,H	Publicly Accessible Content			

AT-1		L,M,H	Security Awareness and Training Policy and Procedures			
AT-2		L,M,H	Security Awareness Training			
	AT-2(2)	M,H				
AT-3		L,M,H	Role-Based Security Training			
AT-4		L,M,H	Security Training Records			
AU-1		L,M,H	Audit and Accountability Policy and Procedures			
AU-2		L,M,H	Audit Events			
	AU-2(3)	M,H				
AU-3		L,M,H	Content of Audit Records			
	AU-3(1)	M,H				
	AU-3(2)	H				
AU-4		L,M,H	Audit Storage Capacity			
AU-5		L,M,H	Response to Audit Processing Failures			
	AU-5(1)	H				
	AU-5(2)	H				
AU-6		L,M,H	Audit Review, Analysis, and Reporting			
	AU-6(1)	M,H				
	AU-6(3)	M,H				
	AU-6(5)	H				
	AU-6(6)	H				
AU-7		M,H	Audit Reduction and Report Generation			
	AU-7(1)	M,H				
AU-8		L,M,H	Time Stamps			
	AU-8(1)	M,H				
AU-9		L,M,H	Protection of Audit Information			
	AU-9(2)	H				

	AU-9(3)	H				
	AU-9(4)	M,H				
AU-10		H	Non-repudiation			
AU-11		L,M,H	Audit Record Retention			
AU-12		L,M,H	Audit Generation			
	AU-12(1)	H				
	AU-12(3)	H				
CA-1		L,M,H	Security Assessment and Authorization Policies and Procedures			
CA-2		L,M,H	Security Assessments			
	CA-2(1)	M,H				
	CA-2(2)	H				
CA-3		L,M,H	System Interconnections			
	CA-3(5)	M,H				
CA-5		L,M,H	Plan of Action and Milestones			
CA-6		L,M,H	Security Authorization			
CA-7		L,M,H	Continuous Monitoring			
	CA-7(1)	M,H				
CA-8		H	Penetration Testing			
CA-9		L,M,H	Internal System Connections			
CM-1		L,M,H	Configuration Management Policy and Procedures			
CM-2		L,M,H	Baseline Configuration			
	CM-2(1)	M,H				
	CM-2(2)	H				
	CM-2(3)	M,H				
	CM-2(7)	M,H				
CM-3		M,H	Configuration Change Control			
	CM-3(1)	H				

	CM-3(2)	M,H				
CM-4		L,M,H	Security Impact Analysis			
	CM-4(1)	H				
CM-5		M,H	Access Restrictions for Change			
	CM-5(1)	H				
	CM-5(2)	H				
	CM-5(3)	H				
CM-6		L,M,H	Configuration Settings			
	CM-6(1)	H				
	CM-6(2)	H				
CM-7		L,M,H	Least Functionality			
	CM-7(1)	M,H				
	CM-7(2)	M,H				
	CM-7(4)	M				
	CM-7(5)	H				
CM-8		L,M,H	Information System Component Inventory			
	CM-8(1)	M,H				
	CM-8(2)	H				
	CM-8(3)	M,H				
	CM-8(4)	H				
	CM-8(5)	M,H				
CM-9		M,H	Configuration Management Plan			
CM-10		L,M,H	Software Usage Restrictions			
CM-11		L,M,H	User-Installed Software			
CP-1		L,M,H	Contingency Planning Policy and Procedures			
CP-2		L,M,H	Contingency Plan			
	CP-2(1)	M,H				
	CP-2(2)	H				

	CP-2(3)	M,H				
	CP-2(4)	H				
	CP-2(5)	H				
	CP-2(8)	M,H				
CP-3		L,M,H	Contingency Training			
	CP-3(1)	H				
CP-4		L,M,H	Contingency Plan Testing			
	CP-4(1)	M,H				
	CP-4(2)	H				
CP-6		M,H	Alternate Storage Site			
	CP-6(1)	M,H				
	CP-6(2)	H				
	CP-6(3)	M,H				
CP-7		M,H	Alternate Processing Site			
	CP-7(1)	M,H				
	CP-7(2)	M,H				
	CP-7(3)	M,H				
	CP-7(4)	H				
CP-8		M,H	Telecommunications Services			
	CP-8(1)	M,H				
	CP-8(2)	M,H				
	CP-8(3)	H				
	CP-8(4)	H				
CP-9		L,M,H	Information System Backup			
	CP-9(1)	M,H				
	CP-9(2)	H				
	CP-9(3)	H				
	CP-9(5)	H				

CP-10		L,M,H	Information System Recovery and Reconstitution			
	CP-10(2)	M,H				
	CP-10(4)	H				
IA-1		L,M,H	Identification and Authentication Policy and Procedures			
IA-2		L,M,H	Identification and Authentication (Organizational Users)			
	IA-2(1)	L,M,H				
	IA-2(2)	M,H				
	IA-2(3)	M,H				
	IA-2(4)	H				
	IA-2(8)	M,H				
	IA-2(9)	H				
	IA-2(11)	M,H				
	IA-2(12)	L,M,H				
IA-3		M,H	Device Identification and Authentication			
IA-4		L,M,H	Identifier Management			
IA-5		L,M,H	Authenticator Management			
	IA-5(1)	L,M,H				
	IA-5(2)	M,H				
	IA-5(3)	M,H				
	IA-5(11)	L,M,H				
IA-6		L,M,H	Authenticator Feedback			
IA-7		L,M,H	Cryptographic Module Authentication			
IA-8		L,M,H	Identification and Authentication (Non-Organizational Users)			
	IA-8(1)	L,M,H				
	IA-8(2)	L,M,H				
	IA-8(3)	L,M,H				

	IA-8(4)	L,M,H				
IR-1		L,M,H	Incident Response Policy and Procedures			
IR-2		L,M,H	Incident Response Training			
	IR-2(1)	H				
	IR-2(2)	H				
IR-3		M,H	Incident Response Testing			
	IR-3(2)	M,H				
IR-4		L,M,H	Incident Handling			
	IR-4(1)	M,H				
	IR-4(4)	H				
IR-5		L,M,H	Incident Monitoring			
	IR-5(1)	H				
IR-6		L,M,H	Incident Reporting			
	IR-6(1)	M,H				
IR-7		L,M,H	Incident Response Assistance			
	IR-7(1)	M,H				
IR-8		L,M,H	Incident Response Plan			
MA-1		L,M,H	System Maintenance Policy and Procedures			
MA-2		L,M,H	Controlled Maintenance			
	MA-2(2)	H				
MA-3		M,H	Maintenance Tools			
	MA-3(1)	M,H				
	MA-3(2)	M,H				
	MA-3(3)	H				
MA-4		L,M,H	Nonlocal Maintenance			
	MA-4(2)	M,H				
	MA-4(3)	H				
MA-5		L,M,H	Maintenance Personnel			

	MA-5(1)	H				
MA-6		M,H	Timely Maintenance			
MP-1		L,M,H	Media Protection Policy and Procedures			
MP-2		L,M,H	Media Access			
MP-3		M,H	Media Marking			
MP-4		M,H	Media Storage			
MP-5		M,H	Media Transport			
	MP-5(4)	M,H				
MP-6		L,M,H	Media Sanitization			
	MP-6(1)	H				
	MP-6(2)	H				
	MP-6(3)	H				
MP-7		L,M,H	Media Use			
	MP-7(1)	M,H				
PE-1		L,M,H	Physical and Environmental Protection Policy and Procedures			
PE-2		L,M,H	Physical Access Authorizations			
PE-3		L,M,H	Physical Access Control			
	PE-3(1)	H				
PE-4		M,H	Access Control for Transmission Medium			
PE-5		M,H	Access Control for Output Devices			
PE-6		L,M,H	Monitoring Physical Access			
	PE-6(1)	M,H				
	PE-6(4)	H				
PE-8		L,M,H	Visitor Access Records			
	PE-8(1)	H				
PE-9		M,H	Power Equipment and Cabling			
PE-10		M,H	Emergency Shutoff			

PE-11		M,H	Emergency Power			
	PE-11(1)	H				
PE-12		L,M,H	Emergency Lighting			
PE-13		L,M,H	Fire Protection			
	PE-13(1)	H				
	PE-13(2)	H				
	PE-13(3)	M,H				
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PE-15		L,M,H	Water Damage Protection			
	PE-15(1)	H				
PE-16		L,M,H	Delivery and Removal			
PE-17		M,H	Alternate Work Site			
PE-18		H	Location of Information System Components			
PL-1		L,M,H	Security Planning Policy and Procedures			
PL-2		L,M,H	System Security Plan			
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PL-4		L,M,H	Rules of Behavior			
	PL-4(1)	M,H				
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PS-3		L,M,H	Personnel Screening			
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	PS-4(2)	H				
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	RA-5(1)	M,H				
	RA-5(2)	M,H				
	RA-5(4)	H				
	RA-5(5)	M,H				
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	SA-4(2)	M,H				
	SA-4(9)	M,H				
	SA-4(10)	L,M,H				
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SA-8		M,H	Security Engineering Principles			
SA-9		L,M,H	External Information System Services			
	SA-9(2)	M,H				
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SA-11		M,H	Developer Security Testing and Evaluation			
SA-12		H	Supply Chain Protection			
SA-15		H	Development Process, Standards, and Tools			

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SC-3		H	Security Function Isolation			
SC-4		M,H	Information in Shared Resources			
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	SC-7(4)	M,H				
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	SC-7(7)	M,H				
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	SI-2(1)	H				
	SI-2(2)	M,H				
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	SI-3(1)	M,H				
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	SI-4(2)	M,H				
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	SI-4(5)	M,H				
SI-5		L,M,H	Security Alerts, Advisories, and Directives			
	SI-5(1)	H				
SI-6		H	Security Function Verification			
SI-7		M,H	Software, Firmware, and Information Integrity			
	SI-7(1)	M,H				

	SI-7(2)	H				
	SI-7(5)	H				
	SI-7(7)	M,H				
	SI-7(14)	H				
SI-8		M,H	Spam Protection			
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Acreage Crop Reporting Streamline Initiative

ACRSI

Geospatial Metadata JSON Schema v1.1

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1 Introduction

1.1 About ACRSI

Acreage Crop Reporting Streamlining Initiative (ACRSI) officially started in July 2010. By streamlining and automating reporting, ACRSI will reduce the burden on the producer to participate in USDA programs while simultaneously improving program integrity and data sharing across USDA agencies and programs. Ultimately, ACRSI will allow automated reporting from the producer's precision farming equipment or farm management system.

1.2 Purpose

This document represents a readable form for the metadata for the entities and attributes included in the Logical Data Model for the ACRSI geospatial acreage report transmission.

1.3 Geospatial Acreage Report Transmission (GART)

This file is used to transmit an acreage report from an FSA County Office, an Approved Insurance Provider (AIP), or a producer to the Common Information Management System (CIMS) Clearinghouse.

1.3.1 Specifications

The GART file is a JavaScript Object Notation (JSON) formatted file with required embedded GeoJSON elements for spatial components. JSON standards can be found at https://google-styleguide.googlecode.com/svn/trunk/jsoncstyleguide.xml or more generally at json.org. GeoJSON standards can be found at http://geojson.org/geojson-spec.html. As specified by the above, GeoJSON submission use a default geographic Coordinate Reference System (CRS), using the WGS84 datum, and with longitude and latitude units of decimal degrees. The USDA supports that default CRS. Additionally, only polygons, including "inclusion" polygons (sometimes called 'donuts') are accepted.

1.3.2 GART relation to the Common Acreage Report Transmission (CART) File

The GART file and CART file are designed to be highly similar with common entities and attributes for most data. The key difference is the required reporting mechanism for land location. Whereas the CART file requires the use of USDA's Common Land Unit (CLU), and its associated Farm, Tract, and Field, with optional GeoJSON, GART files swap that arrangement and require geospatial coordinates to define the planting boundaries with option CLU information for cross-reference. This change does not create any other differences in the specifications of those elements, however it does cause the data model to be reorganized. Reference document, "ACRSI Metadata JSON Schema," for full specifications of the CART file.

1.3.3 Submission

Reference document, "ACRSI RMA Intake Service" for detailed information on connecting to the web services, submitting the file with appropriate header information, and return file information.

1.3.4 Geospatial Acreage Report Transmission (GART) Validations

Reference document, "ACRSI Transmission File - Rules" for detailed information on validations performed by the Clearinghouse

1.3.5 Conditional Elements

Conditional elements within the GART file are subject to one or more rules that invokes actions based on a logical condition. Reference document, “ACRSI Transmission File - Rules” for detailed information on conditional validations performed by the Clearinghouse.

1.3.6 Crop Validation Table

Reference document, “ACRSI CVT” for detailed information on valid crop combinations accepted by the Clearinghouse.

1.3.7 Acceptable Submission When Data is Unavailable

When data is not available for a conditional or optional element then the element should not be included with submission. ‘Null’, ‘N/A’, “”, and “_” are not acceptable values. Supporting reference documents (such as ACRSI CVT) which include blanks/null values, should not be interpreted as permission to include blanks/null values in the GART file.

2 GART Metadata

2.1 Entities with Cardinality and Description

Entity	Cardinality	Description
root	1:1	Contains information pertaining to a single acreage report submission.
customer	1:N	Contains information pertaining to the customer submitting the acreage report and all customers who have a producer share in an agricultural production plan.
agriculturalProductionPlan	1:N	Contains information about each agricultural production plan included on an acreage report.
producerShare	1:N	Contains information about a customer’s share in an agricultural production plan.
geoJsonData	1:1	Contains geospatial information about an agricultural production plan.
geoSpatialMetadata	1:1	Contains metadata about included geospatial data for a specific agricultural production plan.
farm	0:N	Contains information about each farm included on the acreage report. Can be optionally included in a GART file. This is required when Farm data is provided.
tract	0:N	Contains information about each tract included on the acreage report. Can be optionally included in a GART file. This is required when Tract data is provided.
field	0:N	Contains information about each field included on the acreage report. Can be optionally included in a GART file. This is required when Field data is provided.

2.2 List of Fields

Ref	Elements	Datatype	Entity	Requirement
001	cropYear	Integer	Acreage Submission	Mandatory
002	originatorIdentification	String	Acreage Submission	Mandatory
003	fileCustomerIdentifier	Integer	Customer, Producer Share	Mandatory
004	interagencyCustomerIdentifier	Integer	Customer	Conditional
005	taxIdentification	String	Customer	Conditional
006	taxIdentificationTypeCode	Integer	Customer	Conditional
007	REMOVED			
008	businessName	String	Customer	Optional
009	firstName	String	Customer	Optional
010	middleName	String	Customer	Optional
011	lastName	String	Customer	Optional
012	nameSuffix	String	Customer	Optional
013	administrativeStateFsaCode	String	Farm	Optional
014	administrativeCountyFsaCode	String	Farm	Optional
015	farmNumber	Integer	Farm	Optional
016	tractNumber	Integer	Tract	Optional
017	fieldNumber	Integer	Field	Optional
018	cluIdentifier	String	Field	Optional
019	cluProducerReviewRequestIndicator	String	Field	Optional
020	stateAnsiCode	String	Agricultural Production Plan	Mandatory
021	countyAnsiCode	String	Agricultural Production Plan	Mandatory
022	subfieldNumber	String	Agricultural Production Plan	Optional
023	coreProductCode	String	Agricultural Production Plan	Mandatory
024	coreProductTypeCode	String	Agricultural Production Plan	Conditional
025	productIntendedUseCode	String	Agricultural Production Plan	Conditional
026	originalReportedAcreage	Decimal	Agricultural Production Plan	Mandatory
027	finalReportedAcreage	Decimal	Agricultural Production Plan	Mandatory
028	reportedAcreageModifiedIndicator	String	Agricultural Production Plan	Mandatory
029	reportedAcreageModifiedReasonCode	String	Agricultural Production Plan	Conditional
030	reportedAcreageModifiedOtherReason Text	String	Agricultural Production Plan	Conditional
031	acreageCalculationProjectionCode	String	Agricultural Production Plan	Conditional
032	originalPlantedDate	Date	Agricultural Production Plan	Conditional

Ref	Elements	Datatype	Entity	Requirement
033	finalPlantedDate	Date	Agricultural Production Plan	Conditional
034	plantedDateModifiedIndicator	String	Agricultural Production Plan	Mandatory
035	plantedDateModifiedReasonCode	String	Agricultural Production Plan	Conditional
036	plantedDateModifiedOtherReasonText	String	Agricultural Production Plan	Conditional
037	productPlantingCode	String	Agricultural Production Plan	Optional
038	irrigationPracticeCode	String	Agricultural Production Plan	Mandatory
039	organicPracticeTypeCode	String	Agricultural Production Plan	Mandatory
040	croppingPracticeCode	Integer	Agricultural Production Plan	Mandatory
041	producerSharePercent	Decimal	Producer Share	Mandatory
042	geospatialShapeSourceCode	String	Geospatial Metadata	Mandatory
043	geospatialShapeModifiedIndicator	String	Geospatial Metadata	Mandatory
044	geospatialShapeModifiedReasonCode	String	Geospatial Metadata	Conditional
045	geospatialShapeModifiedOtherReason Text	String	Geospatial Metadata	Conditional
046	geospatialShapeProcessDate	Datetime	Geospatial Metadata	Mandatory
047	geospatialDataSubmissionMethodCode	String	Geospatial Metadata	Mandatory
048	micsCode	String	Geospatial Metadata	Mandatory
049	micsName	String	Geospatial Metadata	Conditional
050	geospatialSourceDataCreationDate	Datetime	Geospatial Metadata	Mandatory
051	precisionAgriculturalSubMeterAccuracyI ndicator	String	Geospatial Metadata	Mandatory

2.3 Field Description

001 Crop Year

Element	cropYear
NameSpace	root
Data Type	Integer
Size	4
Pattern	9999
Requirement	Mandatory
Description	The period of time within which the crop is normally grown and designated by the calendar year in which the crop is normally harvested. For crops: • harvested over 2 calendar years, the crop year is the calendar year in which the majority of the crop would have been harvested. • grown over more than 2 calendar years, each year in the growing period will be considered as a separate crop year designated by the calendar year in which the crop sustained a loss. • for which CAT coverage is available, the crop year will be as defined by such coverage. RMA's regulations define Crop Year as the period within which the insured crop is normally grown, regardless of whether or not it is actually grown, and designated by the calendar year in which the insured crop is normally harvested, unless otherwise specified in the Crop Provisions.
Allowed Values	2017
Example	2017

002 Originator Identification

Element	originatorIdentification
NameSpace	Root
Data Type	String
Size	6
Pattern	
Requirement	Mandatory
Description	Identification of the entity responsible for originating/publishing data. For Acreage Reporting it identifies the FSA Service Center, Approved Insurance Provider (AIP), or Third Party Site which collected and published the acreage data and any accompanying geospatial data.
Allowed Values	
Example	Examples of an Originator are a FSA Service Center, Approved Insurance Provider (AIP), and Third Party Sites. The identification consists of a prefix indicating the type of Originator, followed by an identification that uniquely identifies the Originator for that type. For FSA Service Center Originators, the following format is used: F<State FSA Code><County FSA Code> F38045 For AIP Originators, the following format is used: A<Unique 2-character RMA Code> AXX For Third Party Site Originators, the following format is used: T<Assigned Third Party Site ID>

003 File Customer Identifier

Element	fileCustomerIdentifier
NameSpace	customer, producerShare
Data Type	Integer
Size	2
Pattern	99
Requirement	Mandatory
Description	An internal identifier uniquely identifying a customer within a specific file. Each unique customer within a given file will have a unique File Customer Identifier. File Customer Identifier values are not unique across files.
Allowed Values	
Example	2

004 Interagency Customer Identifier

Element	interagencyCustomerIdentifier
NameSpace	customer
Data Type	Integer
Size	
Pattern	
Requirement	Conditional
Description	A system generated, unique internal identifier used between agencies to identify a USDA customer (individual or business). Currently SCIMS Core Customer Identifier is the source value. This will change if a different customer unique identifier is adopted.
Allowed Values	
Example	5

005 Tax Identification

Element	taxIdentification
NameSpace	Customer
Data Type	String
Size	9
Pattern	999999999
Requirement	Conditional
Description	The identification assigned to a specific individual, business or other entity and is used to authenticate the individual/entity for matters of taxation and other federal government business. Tax Identification may be a Social Security or Employer Identification number. Federal Tax Identification is not necessarily unique for all United States Department of Agriculture (USDA) customers unless it is combined with a Tax Identification Type Code.
Allowed Values	
Example	990001234

006 Tax Identification Type Code

Element	taxIdentificationTypeCode
NameSpace	Customer
Data Type	Integer
Size	1
Pattern	9
Requirement	Conditional
Description	Code identifying the type of identification assigned to a specific individual, business or other entity and is used to authenticate the individual/entity for matters of taxation and other government business. For ACRSI the Following RMA values will be used: 1 - Social Security Number (SSN) 2 - Employer Id Number (EIN)
Allowed Values	1,2
Example	Reference Allowed Values

008 Business Name

Element	businessName
NameSpace	customer
Data Type	String
Size	100
Pattern	
Requirement	Optional
Description	The name of a non-individual which transacts business with a USDA office. This can be a business, group, partnership, family-owned farm or ranch, etc. to which the servicing office provides assistance. In the case of a family farm or ranch operation, the business name can be the same as the individual's name.
Allowed Values	
Example	Acme Grain Inc.

009 First Name

Element	firstName
NameSpace	customer
Data Type	String
Size	20
Pattern	
Requirement	Optional
Description	The first name in the full (multi-part) name of an individual (person) or entity.
Allowed Values	
Example	Wily

010 Middle Name

Element	middleName
NameSpace	customer
Data Type	String
Size	20
Pattern	
Requirement	Optional
Description	The middle (or second, or alternate) name in the full (multi-part) name of an individual or entity.
Allowed Values	
Example	E.

011 Last Name

Element	lastName
NameSpace	customer
Data Type	String
Size	25
Pattern	
Requirement	Optional
Description	Last name in the full name (multi-part) of an individual (person) or entity.
Allowed Values	
Example	Coyote

012 Name Suffix

Element	nameSuffix
NameSpace	customer
Data Type	String
Size	10
Pattern	
Requirement	Optional
Description	A free-form optional suffix used in an individual's name.
Allowed Values	
Example	Jr, Sr, I, II, III, MD

013 Administrative State FSA Code

Element	administrativeStateFsaCode
NameSpace	farm
Data Type	String
Size	2
Pattern	
Requirement	Optional
Description	State code of administering state office. State code used within the Farm Service Agency (FSA) to identify a state within the United States, United States Possessions, freely associated areas of the United States, or a combination thereof as defined within Handbook 1-CM, Exhibit 100. Many of the code values used by are similar to State ANSI/FIPS Code, which follows the American National Standards Institute (ANSI) numeric INCITS 31-2009 and Federal Information Processing Standards Publications (FIPS Pub) 6-4 standard. In some cases FSA codes are different from the ANSI/FIPS codes. Specific values are documented in the Handbook 1-CM, Exhibit 100.
Allowed Values	Administrative State FSA Code
Example	01

014 Administrative County FSA Code

Element	administrativeCountyFsaCode
NameSpace	farm
Data Type	String
Size	3
Pattern	
Requirement	Optional
Description	County code of the administering county office. The code is used within the Farm Service Agency (FSA) to identify a county, equivalent entity, or combination thereof within the United States, its possessions, and associated areas as defined within Handbook 1-CM, Exhibit 100. Many of the code values used by are similar to County ANSI/FIPS Code, which follows the American National Standards Institute (ANSI) numeric INCITS 31-2009 and Federal Information Processing Standards Publications (FIPS Pub) 6-4 standard. The expanded even-numbered FSA codes identify counties that contain more than one office due to geographic considerations. Specific values are documented in Handbook 1-CM.
Allowed Values	Administrative County FSA Code
Example	001

015 Farm Number

Element	farmNumber
NameSpace	farm
Data Type	Integer
Size	7
Pattern	
Requirement	Optional
Description	An identification number assigned to all land under control of a particular operator within a particular county. Each County assigns Farm Numbers independently. As a result, farms in different counties might be assigned the same Farm Number; i.e, a Farm Number might be unique only within a particular county. Thus, to uniquely identify a farm, the State FSA Code and County FSA Code must be specified in combination with the Farm Number.
Allowed Values	USDA provided data value
Example	1234567

016 Tract Number

Element	tractNumber
NameSpace	tract
Data Type	Integer
Size	7
Pattern	
Requirement	Optional
Description	The identification number assigned to a unit of contiguous land that is under one ownership and that is operated as a farm or part of a farm. An owner is a person or business having deed to the land. Tract numbers are assigned by an FSA county office, and are unique within that office's farms. A Tract Number is used in conjunction with a State FSA Code and County FSA Code for uniqueness. Tract numbers are not necessarily unique based upon State ANSI Code and County ANSI in instance where the ANSI codes are not the same as the FSA codes.
Allowed Values	USDA provided data value
Example	1

017 Field Number

Element	fieldNumber
NameSpace	field
Data Type	Integer
Size	4
Pattern	
Requirement	Optional
Description	The identification number assigned to a field of land that is part of a farm tract. Field numbers are assigned by an FSA county office, and are unique within that office's farms. A Field Number is used in conjunction with Tract Number, State FSA Code and County FSA Code for uniqueness. Field number and Tract Number are not necessarily unique based upon State ANSI Code and County ANSI Code in instances where the ANSI codes are not the same as the FSA codes.
Allowed Values	USDA provided data value
Example	1

018 CLU Identifier

Element	cluIdentifier
NameSpace	field
Data Type	String
Size	36
Pattern	
Requirement	Optional
Description	This is a system-generated internal identifier of a common land unit (CLU). This identifier is for internal access use only. A CLU is the smallest unit of land that has a permanent, contiguous boundary, common land cover and land management, a common owner, and a common producer association. A CLU is closely related to FSA's definition of 'fields', according to Handbook 2-CP. A CLU is also closely related to land units such as parcels, farmsteads, and lots that are used by NRCS, RMA and RD. The authoritative source of CLU Identifier is Farm Records. CLU Identifier can remain constant even if the precise geospatial shape of the CLU is slightly altered. This is not cluAlternateIdentifier.
Allowed Values	
Example	c2e455c0-7214-4e40-8e08-edfb4e48cbef

019 CLU Producer Review Request Indicator

Element	cluProducerReviewRequestIndicator
NameSpace	field
Data Type	String
Size	1
Pattern	
Requirement	Optional
Description	Indicates that the producer has requested that a Common Land Unit (CLU) be reviewed. Y =Yes N = No
Allowed Values	Y, N
Example	Reference Allowed Values

020 State ANSI Code

Element	stateAnsiCode
NameSpace	agriculturalProductionPlan
Data Type	String
Size	2
Pattern	
Requirement	Mandatory
Description	A code defined within the American National Standards Institute (ANSI) numeric INCITS 38-2009 standard for a state within the United States, a United States possession, freely associated area of the United States, or combination thereof.
Allowed Values	Refer the tab 2 ANSI state and county code
Example	01

021 County ANSI Code

Element	countyAnsiCode
NameSpace	agriculturalProductionPlan
Data Type	String
Size	3
Pattern	
Requirement	Mandatory
Description	A code defined within the American National Standards Institute (ANSI) numeric INCITS 31-2009 standard to identify a county or equivalent entity within the United States, its possessions, and associated areas. A County ANSI Code is unique only when associated with the state or equivalent entity of the United States in which the county is physically located.
Allowed Values	Refer the tab 2 ANSI state and county code
Example	001

022 Subfield Number

Element	subfieldNumber
NameSpace	agriculturalProductionPlan
Data Type	String
Size	2
Pattern	
Requirement	Optional
Description	An alpha 'number' that is used to uniquely identify a subfield within a field. Subfields are areas of a field that share a set of common planting characteristic in terms of crop, crop type, intended use, etc. By convention the first defined subfield is given a value of 'A', with subsequent subfields following in alphabetic order.
Allowed Values	A - ZZ (A, B, C…) Must be upper case.
Example	A

023 Core Product Code

Element	coreProductCode
NameSpace	agriculturalProductionPlan
Data Type	String
Size	4
Pattern	
Requirement	Mandatory
Description	Code providing a classification of agricultural products defined by the ACRSI CVT (Crop Validation Table). Products are classified into individual crop and commodity types, tree types, and types of livestock.
Allowed Values	USDA provided data value from ACRSI CVT
Example	0081

024 Core Product Type Code

Element	coreProductTypeCode
NameSpace	agriculturalProductionPlan
Data Type	String
Size	4
Pattern	
Requirement	Conditional
Description	Code providing a subclassification of agricultural products in addition to the main classification provided by the Core Product Code. Each product classified by a Core Product Code is also assigned a Core Product Type Code providing greater clarification of the crop/commodity, tree, livestock, etc. Codes are maintained by the ACRSI CVT (Crop Validation Table).
Allowed Values	USDA provided data value from ACRSI CVT
Example	0300

025 Product Intended Use Code

Element	productIntendedUseCode
NameSpace	agriculturalProductionPlan
Data Type	String
Size	4
Pattern	
Requirement	Conditional
Description	Code identifying the intended use for an agricultural product such as a crop/commodity, tree, livestock, etc. Codes for intended uses are specific to a particular combination of Core Product Code and Core Product Type Code and are maintained by the ACRSI CVT.
Allowed Values	USDA provided data value ACRSI CVT
Example	0016

026 Original Reported Acreage

Element	originalReportedAcreage
NameSpace	agriculturalProductionPlan
Data Type	Decimal
Size	8,2
Pattern	
Requirement	Mandatory
Description	The original, unmodified, number of acres that were reported.
Allowed Values	
Example	103956.15

027 Final Reported Acreage

Element	finalReportedAcreage
NameSpace	agriculturalProductionPlan
Data Type	Decimal
Size	8,2
Pattern	
Requirement	Mandatory
Description	The final number of acres that were reported.
Allowed Values	
Example	103956.16

028 Reported Acreage Modified Indicator

Element	reportedAcreageModifiedIndicator
NameSpace	agriculturalProductionPlan
Data Type	String
Size	1
Pattern	
Requirement	Mandatory
Description	Indicates whether the reported acreage was modified from its original value. Y = Yes N = No
Allowed Values	Y, N
Example	Reference Allowed Values

029 Reported Acreage Modified Reason Code

Element	reportedAcreageModifiedReasonCode
NameSpace	agriculturalProductionPlan
Data Type	String
Size	2
Pattern	
Requirement	Conditional
Description	Code identifying the reason that the reported acreage was modified from its original value. G = GPS Issue C = Corrected Acres MD = Missing Data O = Other
Allowed Values	G, C, MD, O
Example	Reference Allowed Values

030 Reported Acreage Modified Other Reason Text

Element	reportedAcreageModifiedOtherReasonText
NameSpace	agriculturalProductionPlan
Data Type	String
Size	80
Pattern	
Requirement	Conditional
Description	Freeform text providing the reason that an acreage was modified from its original value when a reason other than the possible list of provided reasons is needed.
Allowed Values	
Example	

031 Acreage Calculation Projection Code

Element	acreageCalculationProjectionCode
NameSpace	agriculturalProductionPlan
Data Type	String
Size	8
Pattern	
Requirement	Conditional
Description	Code identifying the geospatial projection standard used for calculating acreage. Valid values are: 3857 = WGS84 Web Mercator (Auxiliary Sphere) 26901 = NAD83 UTM Zone 1N 26902 = NAD83 UTM Zone 2N 26903 = NAD83 UTM Zone 3N 26904 = NAD83 UTM Zone 4N 26905 = NAD83 UTM Zone 5N 26906 = NAD83 UTM Zone 6N 26907 = NAD83 UTM Zone 7N 26908 = NAD83 UTM Zone 8N 26909 = NAD83 UTM Zone 9N 26910 = NAD83 UTM Zone 10N 26911 = NAD83 UTM Zone 11N 26912 = NAD83 UTM Zone 12N 26913 = NAD83 UTM Zone 13N 26914 = NAD83 UTM Zone 14N 26915 = NAD83 UTM Zone 15N 26916 = NAD83 UTM Zone 16N 26917 = NAD83 UTM Zone 17N 26918 = NAD83 UTM Zone 18N 26919 = NAD83 UTM Zone 19N 26920 = NAD83 UTM Zone 20N 26921 = NAD83 UTM Zone 21N 26922 = NAD83 UTM Zone 22N 26923 = NAD83 UTM Zone 23N 32655 = WGS84 UTM Zone 55N 32702 = WGS84 UTM Zone 2S 32755 = WGS84 UTM Zone 55S
Allowed Values	3857, 26901, 26902, 26903, 26904, 26905, 26906, 26907, 26908, 26909, 26910, 26911, 26912, 26913, 26914, 26915, 26916, 26917, 26918, 26919, 26920, 26921, 26922, 26923, 32655, 32702, 32755
Example	Reference Allowed Values

032 Original Planted Date

Element	originalPlantedDate
NameSpace	agriculturalProductionPlan
Data Type	Date
Size	10
Pattern	YYYY-MM-DD
Requirement	Conditional
Description	The original value for the date that a specific crop was planted.
Allowed Values	>=1800-01-01 and <= TODAY'S DATE
Example	2014-05-01

033 Final Planted Date

Element	finalPlantedDate
NameSpace	agriculturalProductionPlan
Data Type	Date
Size	10
Pattern	YYYY-MM-DD
Requirement	Conditional
Description	The final value for the date that a specific crop was planted.
Allowed Values	>=1800-01-01 and <= TODAY'S DATE
Example	

034 Planted Date Modified Indicator

Element	plantedDateModifiedIndicator
NameSpace	agriculturalProductionPlan
Data Type	String
Size	1
Pattern	
Requirement	Mandatory
Description	Indicates whether the planted date was modified from its original value. Y =Yes N = No
Allowed Values	Y, N
Example	Reference Allowed Values

035 Planted Date Modified Reason Code

Element	plantedDateModifiedReasonCode
NameSpace	agriculturalProductionPlan
Data Type	String
Size	2
Pattern	
Requirement	Conditional
Description	Code identifying the reason that a planted date was modified from its original value. MP = Multiple Planting Dates C = Correction O =Other
Allowed Values	MP, C, O
Example	Reference Allowed Values

036 Planted Date Modified Other Reason Text

Element	plantedDateModifiedOtherReasonText
NameSpace	agriculturalProductionPlan
Data Type	String
Size	80
Pattern	
Requirement	Conditional
Description	Freeform text providing the reason that a planted date was modified from its original value when a reason other than the possible list of provided reasons is needed.
Allowed Values	
Example	

037 Product Planting Code

Element	productPlantingCode
NameSpace	agriculturalProductionPlan
Data Type	String
Size	1
Pattern	
Requirement	Optional
Description	Code identifying the planting of a product/crop as either conventional (planted as normal or no planting required) or unconventional/irregular in a predefined way. F- Failed Acreage (acreage that was timely planted with the intent to harvest, but because of disaster related conditions, the crop failed before it could be brought to harvest). P- Prevented Planted (the inability to plant the intended crop acreage with proper equipment by the final planting date for the crop type because of a natural disaster). V- Volunteer. A crop that was planted in a previous crop year on the applicable acreage or drifted from other acreage, successfully self-seeded, and is growing this crop year on the applicable acreage without being intentionally sown or managed.
Allowed Values	F,P,V,
Example	Reference Allowed Values

038 Irrigation Practice Code

Element	irrigationPracticeCode
NameSpace	agriculturalProductionPlan
Data Type	String
Size	1
Pattern	
Requirement	Mandatory
Description	Code identifying the irrigation practice used for a unit of land with a crop. Irrigated Practice is the method of producing a crop by which water, from an adequate water source, is artificially applied in sufficient amounts by appropriate and adequate irrigation equipment and facilities and at the proper times necessary to produce one of the following: 1. the yield expected for the area; 2. the yield used to establish the production guarantee or amount of insurance/coverage on the irrigated acreage planted to the commodity; 3. the producer's established approved yield, as applicable. Acreage adjacent to water, such as but not limited to a pond, lake, river, stream, creek or brook, shall not be considered irrigated based solely on the proximity to the water. I = Irrigated N = Non-Irrigated
Allowed Values	I, N
Example	Reference Allowed Values

039 Organic Practice Type Code

Element	organicPracticeTypeCode
NameSpace	agriculturalProductionPlan
Data Type	String
Size	2
Pattern	
Requirement	Mandatory
Description	A code representing the type of certification for farm acreage in regards to a system/plan of production and handling practice to produce an organic commodity. Organic practice that is Certified means a system/plan of production and handling practices to respond to site-specific conditions by integrating cultural, biological, and mechanical practices that foster cycling of resources, promote ecological balance, and conserve biodiversity, is certified by an accredited certifying agent, and used to produce an organic commodity or product according to the Organic Foods Production Act of 1990. Organic practice that is Transitional means a system/plan of production and handling practices to produce an organic commodity or product in accordance with the Organic Foods Production Act of 1990, but has not yet qualified to be designated as certified organic. N - Not Specified (Conventional) OC - Organic (USDA Certified) OT - Organic (Transitional)
Allowed Values	N, OC, OT
Example	Reference Allowed Values

040 Cropping Practice Code

Element	croppingPracticeCode
NameSpace	agriculturalProductionPlan
Data Type	integer
Size	
Pattern	
Requirement	Mandatory
Description	A code identifying the cropping practice applicable for a reported crop/commodity on a field/subfield. 005 = Summerfallow 997 = No Cropping Practice Specified 004 = Continuous Cropping 006 = Water Fallow 030 = Fall Planted 046 = Spring Planted 211 = Winter Planted 019 = Following Another Crop 108 = Non-Conventional 120 = Not Following Another Crop 060 = Sprinkler Irrigated 043 = Skip Row
Allowed Values	005, 997, 004, 006, 030, 046, 211, 019, 108, 120, 060, 043
Example	Reference Allowed Values

041 Producer Share Percent

Element	producerSharePercent
NameSpace	producerShare
Data Type	Decimal
Size	5,4
Pattern	
Requirement	Mandatory
Description	Producer's share of a crop and the benefits coming from that crop, expressed as a percentage.
Allowed Values	0.0000 - 1.0000
Example	0.5011

042 Geospatial Shape Source Code

Element	geospatialShapeSourceCode
NameSpace	geospatialMetadata
Data Type	String
Size	1
Pattern	
Requirement	Mandatory
Description	Code identifying the source data used to create a geospatial shape/polygon. B = Field Boundaries: Polygon is based on the outer boundaries of the field (i.e., vehicle GPS capabilities) C = CLU: Existing FSA CLU was used to provide the shape/polygon F = FMIS: Shape/polygon has been created by the producer's Farm Management Information System R = Raw Controller File: Shape/polygon has been created from a producer submitted raw controller file D = Digitized: Third party provider/producer has drawn/digitized the shape/polygon
Allowed Values	B, C, F, R, D
Example	Reference Allowed Values

043 Geospatial Shape Modified Indicator

Element	geospatialShapeModifiedIndicator
NameSpace	geospatialMetadata
Data Type	String
Size	1
Pattern	
Requirement	Mandatory
Description	Indicates whether the geospatial shape/polygon was modified from its original value. Y =Yes N = No
Allowed Values	Y, N
Example	Reference Allowed Values

044 Geospatial Shape Modified Reason Code

Element	geospatialShapeModifiedReasonCode
NameSpace	geospatialMetadata
Data Type	String
Size	2
Pattern	
Requirement	Conditional
Description	Code identifying the reason that a geospatial shape/polygon was modified from its original shape. G = GPS Issue C = Corrected Acres Calculation Difference MD = Missing Data S = Shape Drawn Incorrectly O = Other
Allowed Values	G, C, MD, S or O
Example	Reference Allowed Values

045 Geospatial Shape Modified Other Reason Text

Element	geospatialShapeModifiedOtherReasonText
NameSpace	geospatialMetadata
Data Type	String
Size	80
Pattern	
Requirement	Conditional
Description	Freeform text providing the reason that a geospatial shape was modified from its original form when a reason other than the possible list of provided reasons is needed.
Allowed Values	
Example	

046 Geospatial Shape Process Date

Element	geospatialShapeProcessDate
NameSpace	geospatialMetadata
Data Type	Datetime
Size	20
Pattern	YYYY-MM-DDTHH:MM:SSZ
Requirement	Mandatory
Description	The date that a geospatial shape/polygon was created, either from processing raw data or from manual entry.
Allowed Values	
Example	

047 Geospatial Data Submission Method Code

Element	geospatialDataSubmissionMethodCode
NameSpace	geospatialMetadata
Data Type	String
Size	1
Pattern	
Requirement	Mandatory
Description	Code identifying the method used to submit geospatial data used to create a geospatial shape/polygon. C= CLU - Existing FSA CLU is used to provide the shape/polygon G= GIS Algorithm – GIS algorithm used by third party provider/producer system to create operational boundaries based on raw data collection method (MICS, FMIS) D= Digitized - Third party provider/producer has drawn/digitized the shape/polygon
Allowed Values	C, G, D
Example	Reference Allowed Values

048 MICS Code

Element	micsCode
NameSpace	geospatialMetadata
Data Type	String
Size	3
Pattern	
Requirement	Mandatory
Description	Code identifying the Mobile Implement Control System (MICS) used in the collection of geospatial data. AG = AGCO AL = AgLeader CNH = Case IH/Ford/New Holland FS = FSA JD = John Deere PP = Precision Planting RA = Raven TR = Trimble O = Other UN = Unknown
Allowed Values	AG, AL, CNH, FS, JD, PP, RA, TR, O, UN
Example	Reference Allowed Values

049 MICS Name

Element	micsName
NameSpace	geospatialMe
Data Type	String
Size	20
Pattern	
Requirement	Conditional
Description	Name of the Mobile Implement Control System (MICS) used in the collection of geospatial data.
Allowed Values	
Example	

050 Geospatial Source Data Creation Date

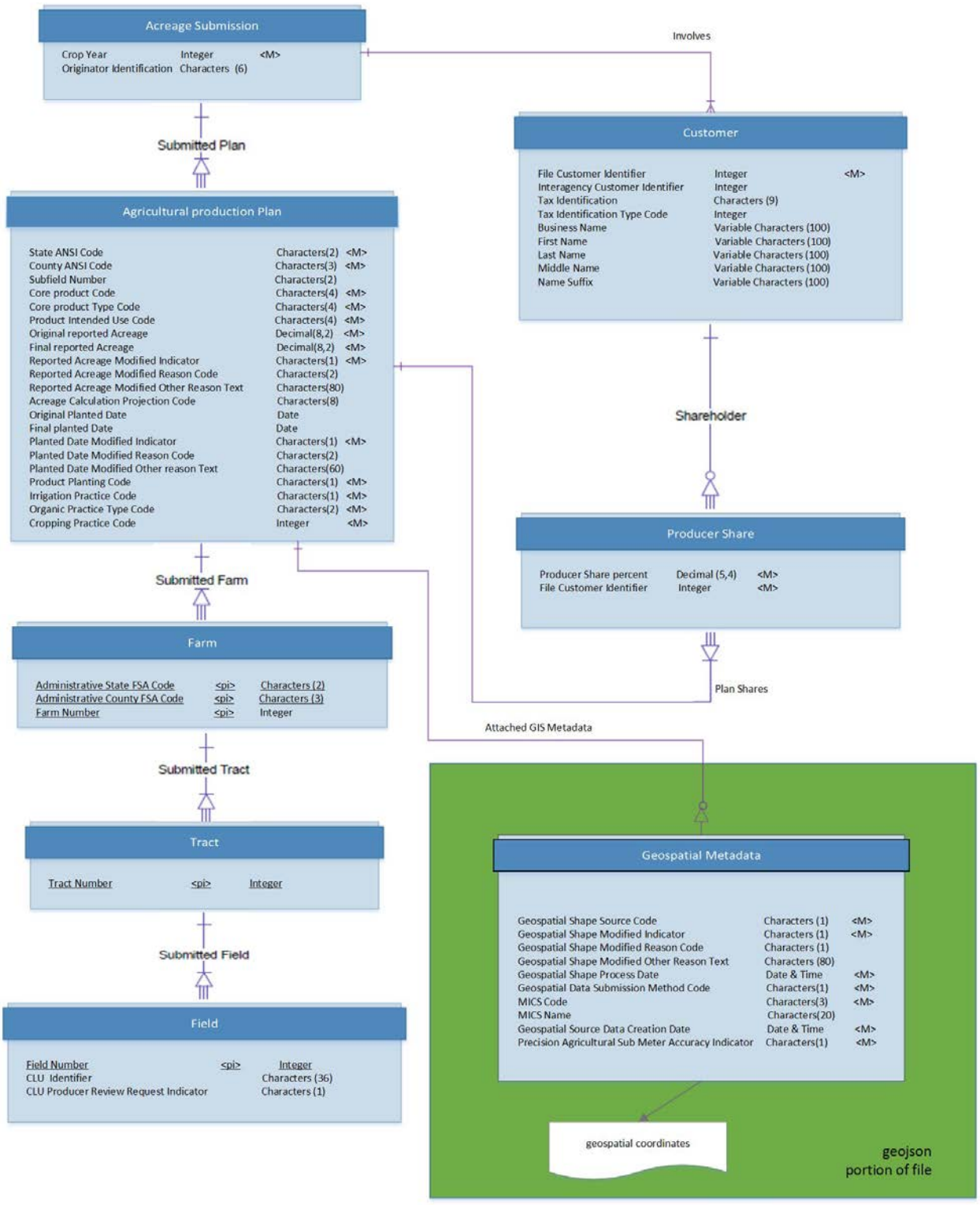
Element	geospatialSourceDataCreationDate
NameSpace	geospatialMetadata
Data Type	Datetime
Size	20
Pattern	YYYY-MM-DDTHH:MM:SSZ
Requirement	Mandatory
Description	The creation date of the data that was used as a source for geospatial data being considered. For geospatial data sourced by means of Precision Agriculture, this is the date the raw data was collected by the equipment. For geospatial data that was created from an existing Common Land Unit (CLU) shape, this is the date the source CLU was created.
Allowed Values	
Example	

051 Precision Agricultural Sub Meter Accuracy Indicator

Element	precisionAgriculturalSubMeterAccuracyIndicator
NameSpace	geospatialMetadata
Data Type	String
Size	1
Pattern	
Requirement	Mandatory
Description	Indicates whether geospatial data collected from Precision Agriculture technology has horizontal coordinate measurements that are accurate within a sub meter. Y =Yes N = No
Allowed Values	Y, N
Example	Reference Allowed Values

3 Appendix

3.1 A - Logical Model



3.2 B - Sample Transmission File (JSON Format)

The below sample shows the structure of the file, but does not contain valid data. Valid test files will be provided to aid in connectivity activities for data providers.


```
{
"cropYear" : 2018,
"originatorIdentification" : "T1234"
"agriculturalProductionPlan" :
 [  {
               "stateAnsiCode" : "01",
               "countyAnsiCode" : "001",
               "subfieldNumber" : "ZZ",
               "coreProductCode" : "0081",
               "coreProductTypeCode" : "0300",
               "productIntendedUseCode" : "0016",
               "originalReportedAcreage" : 25.91,
               "originalPlantedDate" : "2018-05-01",
               "productPlantingCode" : "F",
               "irrigationPracticeCode" : "I",
               "organicPracticeTypeCode" : "N",
               "croppingPracticeCode" : 108,
               "geospatialInfo" :
                         {
                        "id" : 1,
                        "type" : "Feature",
                        "geometry" :
                            {
                                "type" : "Polygon",
                                "coordinates" : [ [ [ -94.87719444309735, 39.42968299245607 ], [
-94.877060029978, 39.42960310173079 ], [ -94.87686124268708, 39.42934313550145 ], [ -
94.87662097568794, 39.42918682043766 ], [ -94.87640989764732, 39.42901859059091 ], [ -
94.8761680981223, 39.42880508731024 ], [ -94.87608944882254, 39.42862327813377 ], [ -
94.87600926609858, 39.42838428134268 ], [ -94.87579941964822, 39.428261800356225 ], [ -
94.87540953195028, 39.4280277989509 ], [ -94.87500612550565, 39.427839783754436 ], [ -
94.87476985241625, 39.42783215106031 ], [ -94.8746361435761, 39.42784375761223 ], [ -
94.87463622172953, 39.427562778177936 ], [ -94.8752076248104, 39.42755356547937 ], [ -
94.87568449008909, 39.427545874467675 ], [ -94.87580461550382, 39.42780710263399 ], [ -
94.87615147569628, 39.42808758426594 ], [ -94.87637733281996, 39.42830019256246 ], [ -
94.87637852488433, 39.42830131733654 ], [ -94.87664797814708, 39.428445728876866 ], [ -
94.87682895633746, 39.428591568110164 ], [ -94.87695091880695, 39.42873835070457 ], [ -
94.87708458452798, 39.42877052000465 ], [ -94.87725727396324, 39.428607529980326 ], [ -
94.87716262297333, 39.42838019233234 ], [ -94.87697949601277, 39.42815430969895 ], [ -
94.87685102075747, 39.42805873555589 ], [ -94.87670850932585, 39.427952720468355 ], [ -
94.87642155957634, 39.42770561891091 ], [ -94.87620356630464, 39.4274950557601 ], [ -
94.87691347163603, 39.427342966480936 ], [ -94.87721982140242, 39.42721216395366 ], [ -
94.87730307726297, 39.42701629936127 ] [ -94.87766928357337, 39.428017316514406 ], [ -
94.87767235401502, 39.428131681636096 ], [ -94.87773133380331, 39.42813072894113 ], [ -
94.87787883627465, 39.42812834755056 ], [ -94.87802201515451, 39.427965832719735 ] ] ]

                         },
                              "properties":
                            {
                                "geospatialShapeSourceCode": "R",
                                "geospatialShapeModifiedIndicator": "Y",
                                "geospatialShapeModifiedReasonCode": "C",
                                "geospatialShapeModifiedOtherReasonText": "",
                                "geospatialShapeProcessDate": "2015-01-31T11:07:14Z",
                                "geospatialDataSubmissionMethodCode": "C",
                                "micsCode": "AL",
                                "micsName": "",
                                "geospatialSourceDataCreationDate": "2015-01-31T11:07:14Z",
                                "precisionAgriculturalSubMeterAccuracyIndicator": "N"
                         },
               },
                           "farm" : [
               {
                   "administrativeStateFsaCode" : "01",
                   "administrativeCountyFsaCode" : "001",
                   "farmNumber" : 1234567,
```

```
                    "tract" : [
                           {
                       "tractNumber" : 1,
                       "field" : [
                        {
                            "cluIdentifier" : "c2e455c0-7214-4e40-8e08-edfb4e48cbef",
                            "fieldNumber" : 1,
                        } ]
                    }]
                }],
                "producerShare" :  [
                                  {
                     "fileCustomerIdentifier" : 2,
                     "producerSharePercent" : 0.5011
                    },
                    {
                      "fileCustomerIdentifier" : 3,
                      "producerSharePercent" : 0.4989
                    } ]
    } ],
"customer" : [
    {
     "fileCustomerIdentifier" : 1,
     "taxIdentification" : "990001234",
     "taxIdentificationTypeCode" : 2,
     "businessName" : "Acme Grain Inc"
    },
       {
     "fileCustomerIdentifier" : 2,
     "taxIdentification" : "444556666",
     "taxIdentificationTypeCode" : 1,
     "firstName" : "Wily",
     "lastName" : "Coyote",
     "middleName" : "E."
     },
       {
     "fileCustomerIdentifier" : 3,
     "taxIdentification" : "111004444",
     "taxIdentificationTypeCode" : 1,
     "businessName" : "Acme Explosives Inc"
    } ]
}
```

Record level Rule 1: Violation of any rule results in rejection of the submission at the Agricultural Production Plan node level. Thus, a multi-field submission can be partially rejected/accepted.

Record level Rule 2: All elements must follow the defined data type and size.

Rule Number	Column Name	Rule Text	Rule Status	Col Index
ACRSI-001-01	cropYear	Only Current Year	Active	1
ACRSI-002-01	originatorIdentification	The first letter of originatorIdentification must be any of these values "A","F","T"	Active	2
ACRSI-002-02	originatorIdentification	This field will be populated ONLY when there is an associated Geospatial data [GeoJSON value]	Inactive	2
ACRSI-002-03	originatorIdentification	Value for the channels: AIP -> "A"+ <2 character RMA code>, County office-> "F"+<State Code+County Code>, Third Party-> "T"+<assign site id> Note: <validation against list of RMA codes, FSA ST/Co, Thirdparty - TMYA]	Active	2
ACRSI-003-01	fileCustomerIdentifier	fileCustomerIdentifier must be >0 and uniquely (no duplication) refers to the customer in the customer Entity inside the JSON file	Active	3
ACRSI-003-02	fileCustomerIdentifier	The fileCustomerIdentifier (within the producerShare) can have only one share defined for a given agriculturalProductionPlan.	Active	3
ACRSI-004-01	interagencyCustomerIdentifier	Populated with active CCID associated with a TIN and TIN Type	Active	4
ACRSI-005-01	taxIdentification	It must be populated if interagencyCustomerIdentifier is null	Active	5
ACRSI-005-02	taxIdentification	It must be null if interagencyCustomerIdentifier is populated	Active	5
ACRSI-005-03	taxIdentification	Format of the Tax ID is 9 numeric characters	Active	5
ACRSI-006-01	taxIdentificationTypeCode	It must be populated if interagencyCustomerIdentifier is null	Active	6
ACRSI-006-02	taxIdentificationTypeCode	It must be null if interagencyCustomerIdentifier is populated	Active	6
ACRSI-006-03	taxIdentificationTypeCode	The value must be either 1 (=SSN) or 2 (=EIN)	Active	6
ACRSI-007-01	acreageReportSubmitterIndicator	The value must be either "Y" or "N"	Deleted	Null
ACRSI-013-01	administrativeStateFsaCode	The value must be valid State FSA Code	Active	13

ACRSI-014-01	administrativeCountyFsaCode	The value must be a valid county for the applicable value in administrativeStateFsaCode	Active	14
ACRSI-015-01	farmNumber	Must be an active FSA farm in 2017 for the applicable value in administrativeStateFsaCode and administrativeCountyFsaCode	Inactive	15
ACRSI-016-01	tractNumber	Must be among the list of tracts associated with applicable value in farmNumber	Inactive	16
ACRSI-017-01	fieldNumber	Must be among the list of fields associated with applicable value in farmNumber and tractNumber	Inactive	17
ACRSI-018-01	cluIdentifier	Must be associated with the Field associated with the tract and for the Farm as found in the CLU layer	Inactive	18
ACRSI-999-01	Cross-Element	Must use active combinations of administrativeStateFsaCode, administrativeCountyFsaCode, farmNumber, tractNumber, and fieldNumber per FSA Farm Records for the year in ACRSI-001-01	Active	Multi
ACRSI-018-02	cluIdentifier	Must in format <XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX>	Active	18
ACRSI-019-01	cluProducerReviewRequestIndicator	The value must be either “Y” or “N”	Active	19
ACRSI-020-01	stateAnsiCode	The value must be valid ANSI state	Active	20
ACRSI-021-01	countyAnsiCode	The value must be valid ANSI county for the applicable value in stateAnsiCode	Active	21
ACRSI-022-01	subfieldNumber	Must be included if an agricultural production plan does not cover an entire Field/CLU.	Active	22
ACRSI-022-02	subfieldNumber	Must be populated if there is more than one agricultural plan (aka field is split into multiple subfields).	Inactive	22
ACRSI-022-03	subfieldNumber	The only values allowed are from A through ZZ (ex: A, B, C…AA,AB,….ZZ), assigned alphabetically (A, B, C…AA, AB…ZZ) with no duplication within the same Field.	Active	22
ACRSI-023-01	coreProductCode	USDA provided list of values from CVT to be used (reference ACRSI CVT document)	Active	23
ACRSI-024-01	coreProductTypeCode	USDA provided list of values from CVT to be used (reference ACRSI CVT document)	Active	24
ACRSI-025-01	productIntendedUseCode	USDA provided list of values from CVT to be used (reference ACRSI CVT document)	Active	25
ACRSI-999-02	Cross-Element	Must use allowable combinations of coreProductCode, coreProductTypeCode, and productIntendedUseCode per the ACRSI CVT	Active	Multi
ACRSI-026-01	originalReportedAcreage	Cannot be a negative value	Active	26

ACRSI-026-02	originalReportedAcreage	Must equal finalReportedAcreage when reportedAcreageModifiedIndicator = N	Active	26
ACRSI-026-03	originalReportedAcreage	Cannot equal finalReportedAcreage when reportedAcreageModifiedIndicator = Y	Active	26
ACRSI-027-01	finalReportedAcreage	Cannot be a negative value	Active	27
ACRSI-027-02	finalReportedAcreage	Must equal originalReportedAcreage when reportedAcreageModifiedIndicator = N	Active	27
ACRSI-027-03	finalReportedAcreage	Cannot equal originalReportedAcreage when reportedAcreageModifiedIndicator = Y	Active	27
ACRSI-028-01	reportedAcreageModifiedIndicator	The value must be either "Y" or "N"	Active	28
ACRSI-028-02	reportedAcreageModifiedIndicator	If no geospatial data is attached only allowed value is N	Active	28
ACRSI-029-01	reportedAcreageModifiedReasonCode	Cannot be populated when reportedAcreageModifiedIndicator = N	Active	29
ACRSI-029-02	reportedAcreageModifiedReasonCode	Must be populated when reportedAcreageModifiedIndicator = Y	Active	29
ACRSI-029-03	reportedAcreageModifiedReasonCode	The values must be "G", "C", "MD" or "O"	Active	29
ACRSI-030-01	reportedAcreageModifiedOtherReasonText	Cannot be populated when geospatialShapeModifiedReasonCode <> O	Active	30
ACRSI-030-02	reportedAcreageModifiedOtherReasonText	Must be populated when geospatialShapeModifiedReasonCode = O	Active	30
ACRSI-031-01	acreageCalculationProjectionCode	Must be populated when geospatial data is submitted	Active	31
ACRSI-031-02	acreageCalculationProjectionCode	valid values are “3857, 26901, 26902, 26903, 26904, 26905, 26906, 26907, 26908, 26909, 26910, 26911, 26912, 26913, 26914, 26915, 26916, 26917, 26918, 26919, 26920, 26921, 26922, 26923, 32655, 32702, 32755”	Active	31
ACRSI-032-01	originalPlantedDate	Format conforms to ISO 8601 and should appear as "YYYY-MM-DD", example "2015-01-29"	Active	32
ACRSI-032-02	originalPlantedDate	Date cannot be a future date	Active	32
ACRSI-032-03	originalPlantedDate	Must equal Final Planted Date when plantedDateModifiedIndicator = N	Active	32
ACRSI-032-04	originalPlantedDate	Cannot equal Final Planted Date plantedDateModifiedIndicator = Y	Active	32
ACRSI-032-05	originalPlantedDate	Date must be greater than or equal to “1800-01-01”	Active	32
ACRSI-033-01	finalPlantedDate	Format conforms to ISO 8601 and should appear as "YYYY-MM-DD", example "2015-01-29"	Active	33
ACRSI-033-02	finalPlantedDate	Date cannot be a future date	Active	33

ACRSI-033-03	finalPlantedDate	Must equal originalPlantedDate when plantedDateModifiedIndicator = N	Active	33
ACRSI-033-04	finalPlantedDate	Cannot equal originalPlantedDate when plantedDateModifiedIndicator = Y	Active	33
ACRSI-033-05	finalPlantedDate	Date must be greater than or equal to “1800-01-01”	Active	33
ACRSI-034-01	plantedDateModifiedIndicator	The value must be either "Y" or "N"	Active	34
ACRSI-034-02	plantedDateModifiedIndicator	If no geospatial data is attached only allowed value is N	Inactive	34
ACRSI-035-01	plantedDateModifiedReasonCode	cannot be populated when plantedDateModifiedIndicator = N	Active	35
ACRSI-035-02	plantedDateModifiedReasonCode	must be populated when plantedDateModifiedIndicator = Y	Active	35
ACRSI-035-03	plantedDateModifiedReasonCode	The values must be "MP", "C" or "O"	Active	35
ACRSI-036-01	plantedDateModifiedOtherReasonText	cannot be populated when plantedDateModifiedReasonCode <> O	Active	36
ACRSI-036-02	plantedDateModifiedOtherReasonText	Must be populated when plantedDateModifiedReasonCode = O	Active	36
ACRSI-037-01	productPlantingCode	The value must be “F”, “P” or “V”.	Active	37
ACRSI-038-01	irrigationPracticeCode	The value must be "I" or "N"	Active	38
ACRSI-039-01	organicPracticeTypeCode	The value must be "OC", "OT" or "N"	Active	39
ACRSI-040-01	croppingPracticeCode	The value must be in source table (ADM based)	Active	40
ACRSI-999-03	Cross-Element	Must use allowable combinations based off of coreProductCode, coreProductTypeCode, productIntendedUseCode, irrigationPracticeCode, and organicPracticeTypeCode per ADM	Active	Multi
ACRSI-041-01	producerSharePercent	Cannot be a negative and cannot be greater than value 1	Active	41
ACRSI-041-02	producerSharePercent	Producer share Percent can be a ZERO	Active	41
ACRSI-041-03	producerSharePercent	Aggregation of all the "producer share percent" value for a single Agricultural Production Plan must be greater than ZERO and less than or equal to ONE	Active	41
ACRSI-042-01	geospatialShapeSourceCode	The value must be "B", "C", "F", "R" or "D"	Active	42
ACRSI-043-01	geospatialShapeModifiedIndicator	The value must be either "Y" or "N"	Active	43
ACRSI-044-01	geospatialShapeModifiedReasonCode	Cannot be populated when geospatialShapeModifiedIndicator = N	Active	44
ACRSI-044-02	geospatialShapeModifiedReasonCode	Must be populated when geospatialShapeModifiedIndicator = Y	Active	44
ACRSI-044-03	geospatialShapeModifiedReasonCode	The value must be "G", "C", "MD", "S" or "O"	Active	44
ACRSI-045-01	geospatialShapeModifiedOtherReasonText	Cannot be populated when geospatialShapeModifiedReasonCode <> O	Active	45
ACRSI-045-02	geospatialShapeModifiedOtherReasonText	Must be populated when geospatialShapeModifiedReasonCode = O	Active	45

ACRSI-046-01	geospatialShapeProcessDate	Format conforms to ISO 8601 and should appear as "YYYY-MM-DDTHH:MM:SS-hh:mm [hh:mm Offset from UTC]"; example January 1, 2015 at 3:30 PM Central Standard time would be formatted as "2015-01-29T15:30:00-06:00"	Active	46
ACRSI-046-02	geospatialShapeProcessDate	Date cannot be a future date	Active	46
ACRSI-047-01	geospatialDataSubmissionMethodCode	The value must be "C", "G" or "D"	Active	47
ACRSI-048-01	micsCode	The value must be "AG", "AL", "CNH", "FS", "JD", "PP", "RA", "TR", "O", or "UN"	Active	48
ACRSI-049-01	micsName	Cannot be populated when MICS Code <> O	Active	49
ACRSI-049-02	micsName	Must be populated when MICS Code = O	Active	49
ACRSI-050-01	geospatialSourceDataCreationDate	Format conforms to ISO 8601 and should appear as "YYYY-MM-DDTHH:MM:SS-hh:mm [hh:mm Offset from UTC]"; example January 1, 2015 at 3:30 PM Central Standard time would be formatted as "2015-01-29T15:30:00-06:00"	Active	50
ACRSI-050-02	geospatialSourceDataCreationDate	Date Can't be a future date	Active	50
ACRSI-051-01	precisionAgriculturalSubMeterAccuracyIndicator	The value must be either "Y" or "N"	Active	51
ACRSI-GEO-01	Geospatial	Geospatial data must be a valid geometry	Active	Geo
ACRSI-GEO-02	Geospatial	Geospatial data must be in the reported stateAnsiCode and countyAnsiCode.	Active	Geo
ACRSI-GEO-03	Geospatial	Geospatial data must have a calculated acreage equal to the specified originalReportedAcreage and/or finalReportedAcreage, as applicable.	Active	Geo