

# **USDA Forest Service e-Gov Program**

Information Resource Management

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**Recreation Information Database**

**(RIDB)**

**Web Service Manual**

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# RIDB Web Services Manual

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### Federal Data Quality Information

In compliance with Public Law 106-554 regarding federal data quality, the following information is provided in relation to information obtained from this site (RecData.gov).

Users of this federally provided data understand and accept the following:

1. This information is provided as “general reference” information.
2. Information is provided for the sole purpose of describing outdoor recreation-related opportunities on federally managed lands and may not be inclusive of all federal opportunities.
3. This information is provided by, and periodically updated by, participating federal agencies and it is the user’s responsibility to check for and obtain revised information.
4. This site does not control nor guarantee the accuracy, relevance, timeliness or completeness of information contained on a website URL provided in the dataset downloaded.
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# 1. Introduction

The Recreation Information Database (RIDB) is a warehouse of information about Federal recreation sites with the ability to export the data to state tourism portals, recreation-related businesses, etc. It is also the “back end” supplying data to the Recreation.gov portal for trip planning information regarding more than 3,000 Federal recreation sites.

This document describes the process to extract data from the RIDB using the menu driven process. This is also a technical document which describes how to message and interface with the RIDB Web Services. This document assumes that the reader is familiar with web services and understands terminology such as HTTP, GET, POST, WSDL, UDDI, SOAP, etc.

The RIDB Web Services are "classic" web services because they are:

- Self-describing via their own WSDL documents, and
- Communicate with clients via SOAP over HTTP/HTTPS.

## 1.1 *Intended Audience*

This document is intended for the general public. It provides instructions on how to extract data from the RIDB.

The data is provided at no cost in order to encourage wide distribution and regular updates to different publications, databases, and websites, so customers can receive correct information from many different systems.

You are invited to use the trip planning data about Federal recreation sites in your publication, website, or computer system. You can download and use the trip planning data at no cost, and with no copyright issues.

There is no need to contact us before incorporating the data into your system. In exchange, we encourage you to provide a link to Recreation.gov and acknowledge credit, such as Data Source: [www.recdata.gov](http://www.recdata.gov).

## 1.2 *Retrieving RIDB Data via Menu*

Data from the Recreation Information Database (RIDB) can be retrieved using the menu driven process accessed at:

**<http://www.RecData.gov>**

It is not necessary to log in to the RIDB to retrieve data.

Select from the RIDB Welcome Page:

**Go to RIDB Data Sharing**

Using the pull down menus, make appropriate selections to extract data records from the RIDB. There are options to retrieve all data contained in the RIDB, data for an entire agency, or data for a specific organization within an agency. The resulting links will allow the selection of:

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1. All data elements in the RIDB based on the retrieval criteria selected
2. Recreation Area data elements based on the retrieval criteria selected
3. Facility data elements based on the retrieval criteria selected

Output will be provided in XML format.

### **1.3 Retrieving the WSDL**

Web services publish their own API in an XML format called Web Service Definition Language (WSDL). Currently there is no Universal Description, Discovery and Integration (UDDI) directory that contains the RIDB WSDL documents. The WSDL must be retrieved directly from each of the web services, as shown below.

<https://www.recredata.gov/RIDBWebService/RIDBService.jws?WSDL>

<https://www.recredata.gov/RIDBWebService/RIDBServiceInsert.jws?WSDL>

<https://www.recredata.gov/RIDBWebService/RIDBServiceUpdate.jws?WSDL>

<https://www.recredata.gov/RIDBWebService/RIDBServiceDelete.jws?WSDL>

### **1.4 RIDBService Methods**

Some RIDB web service methods fetch data via an HTTP GET request. These methods are all provided by the RIDBService web service. Some of those methods accept parameters, which are passed in the URL as part of a GET request.

As shown in the WSDL, the method calls and their respective URLs for the RIDBService methods are listed here. For cases in which the method accepts parameters, sample parameters are included. Note that the WSDL, and not this document, is the final word on the precise format of these method signatures.

The following method returns RIDB data in the REC.xsd, or Recreation.gov, schema format.

Note: Recreation.Gov Facilities map to both RIDB RecAreas and RIDB Facilities.

<http://recredata.gov/RIDBWebService/RIDBService.jws/getRecGovFacilities>

The following method returns all RIDB Elements that are supported for RIDB Release 1.0. This method uses the RecML schema format.

Note: File size can be large, typically greater than 10 MB.

<http://recredata.gov/RIDBWebService/RIDBService.jws/getAllElements>

The following method returns RIDB elements that relate to the input Organization and all sub-Organizations for a given OrgID (and its sub-orgs). All elements related to those Organizations are returned.

<http://recredata.gov/RIDBWebService/RIDBService.jws/getAllRecElementsForOrgID?anOrgID=157>

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The following method returns facility-related RIDB elements, by Organization and all sub-Organizations for a given OrgID (and its sub-orgs). All facilities and elements related to those facilities are returned.

<http://recdata.gov/RIDBWebService/RIDBService.jws/getAllFacilityElementsForOrgID?anOrgID=157>

The following method returns RecArea-related RIDB elements, by Organization and all sub-Organizations for a given OrgID (and its sub-orgs). All RecAreas and elements related to those RecAreas are returned.

<http://recdata.gov/RIDBWebService/RIDBService.jws/getAllRecAreaElementsForOrgID?anOrgID=157>

Note: Unless otherwise indicated, all of the following methods use the RecML schema format.

The following method returns all RIDB RecAreas.

<http://recdata.gov/RIDBWebService/RIDBService.jws/getAllRecAreas>

The following method returns all RIDB RecAreas that relate to the single Organization specified by the input OrgID.

<http://recdata.gov/RIDBWebService/RIDBService.jws/getAllRecAreasForOrgID?anOrgID=157>

The following method returns all RIDB Facilities.

<http://recdata.gov/RIDBWebService/RIDBService.jws/getAllFacilities>

The following method returns all RIDB Organizations.

<http://recdata.gov/RIDBWebService/RIDBService.jws/getAllOrganizations>

The following method returns all RIDB Activities.

<http://recdata.gov/RIDBWebService/RIDBService.jws/getAllActivities>

The following method returns all RIDB Facility Addresses.

<http://recdata.gov/RIDBWebService/RIDBService.jws/getAllFacilityAddresses>

The following method returns all RIDB RecArea Addresses.

<http://recdata.gov/RIDBWebService/RIDBService.jws/getAllRecAreaAddresses>

The following method returns all RIDB Facility Activities.

<http://recdata.gov/RIDBWebService/RIDBService.jws/getAllFacilityActivities>

The following method returns all RIDB RecArea Activities.

<http://recdata.gov/RIDBWebService/RIDBService.jws/getAllRecAreaActivities>

The following method returns all RIDB RecArea Facilities.

<http://recdata.gov/RIDBWebService/RIDBService.jws/getAllRecAreaFacilities>

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The following method returns all RIDB Org Facilities.

<http://reodata.gov/RIDBWebService/RIDBService.jws/getAllOrgFacilities>

The following method returns all RIDB Org RecAreas.

<http://reodata.gov/RIDBWebService/RIDBService.jws/getAllOrgRecAreas>

### **1.5 Handling Inserts, Updates, and Deletes**

The remaining web service methods handle inserts, updates, and deletes. They include calls to:

- RIDBServiceInsert web service
- RIDBServiceUpdate web service
- RIDBServiceDelete web service

Each call requires a POST request. The POST message payload must contain an XML document that conforms to the RecML.xsd schema. Part of that schema includes a username and password, which must match the username/password of an existing RIDB Data Steward.

### **1.6 Validation Rules**

All input data is validated according to the same business rules that apply within the RIDB Data Management application. See *Appendix B – RIDB Data Entry and Validation Rules* for a detailed listing.

### **1.7 Secure Application URL Strings (HTTPS)**

Note that since this application includes username and password information, the user should use "https" and not "http" in the URL when requesting insert/update/delete methods. This encrypts the request.

### **1.8 WSDL Document URLs**

<http://reodata.gov/RIDBWebService/RIDBServiceInsert.jws?WSDL>

<http://reodata.gov/RIDBWebService/RIDBServiceUpdate.jws?WSDL>

<http://reodata.gov/RIDBWebService/RIDBServiceDelete.jws?WSDL>

### Appendix A – Sample XSD document

A sample RecML.xsd document is provided here with dummy values in all the fields.

The user should not pass elements for which no insert/update/delete action is requested:

```
<RecElements xmlns="http://www.recreation.gov/architecture/"
xmlns:fips="http://www.doi.gov/xml/importedSchemas/fips_10-4"
xmlns:fips1="http://www.doi.gov/xml/importedSchemas/fips_5-2">
  <Username>string</Username>
  <Password>string</Password>
  <!--1 or more repetitions:-->
  <Facility>
    <FacilityID>100</FacilityID>
    <OrgFacilityID>100</OrgFacilityID>
    <FacilityDataStewardID>100</FacilityDataStewardID>
    <FacilityName>string</FacilityName>
    <FacilityTypeDescription>string</FacilityTypeDescription>
    <FacilityURLText>string</FacilityURLText>
    <FacilityURLAddress>string</FacilityURLAddress>
    <FacilityPhone>string</FacilityPhone>
    <FacilityDescription>string</FacilityDescription>
    <FacilityDirections>string</FacilityDirections>
    <FacilityEmail>string</FacilityEmail>
    <FacilityMapUrl>string</FacilityMapUrl>
    <FacilityImageUrl>string</FacilityImageUrl>
    <FacilityImageCaption>string</FacilityImageCaption>
    <FacilityReservationUrl>string</FacilityReservationUrl>
    <FacilityLatitude>1.051732E7</FacilityLatitude>
    <FacilityLongitude>1.051732E7</FacilityLongitude>
    <FacilityAdaAccess>string</FacilityAdaAccess>
    <FacilityReservable>true</FacilityReservable>
    <FacilityUseFeeDescription>string</FacilityUseFeeDescription>
    <FacilityEnabled>true</FacilityEnabled>
  </Facility>
  <!--1 or more repetitions:-->
  <FacilityAddress>
    <AddressID>100</AddressID>
    <StreetAddress1>string</StreetAddress1>
    <StreetAddress2>string</StreetAddress2>
    <StreetAddress3>string</StreetAddress3>
    <City>string</City>
    <AddressStateCode>
```



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```
<!--You have a CHOICE of the next 2 items at this level-->
<fips:InternationalStateCodeTypeElement>UP20</fips:InternationalStateCodeTypeElement>
  <fips1:USStateCodeTypeElement>HI</fips1:USStateCodeTypeElement>
  </AddressStateCode>
  <PostalCode>string</PostalCode>
  <AddressCountryCode>19073</AddressCountryCode>
  <FacilityID>100</FacilityID>
  <FacilityAddressType>string</FacilityAddressType>
  <FacilityAddressID>string</FacilityAddressID>
</FacilityAddress>
<!--1 or more repetitions:-->
<Organization>
  <OrgID>100</OrgID>
  <ParentOrgID>100</ParentOrgID>
  <OrgName>string</OrgName>
  <OrgAbbrevName>string</OrgAbbrevName>
  <OrgURLAddress>string</OrgURLAddress>
  <OrgURLText>string</OrgURLText>
  <OrgImageURL>string</OrgImageURL>
  <OrgType>string</OrgType>
  <OrgJurisdictionType>string</OrgJurisdictionType>
  <OrgContactInfoDescription>string</OrgContactInfoDescription>
</Organization>
<!--1 or more repetitions:-->
<OrgFacilityRole>
  <OrgID>100</OrgID>
  <FacilityID>100</FacilityID>
  <OrgFacilityRoleReason>string</OrgFacilityRoleReason>
</OrgFacilityRole>
<!--1 or more repetitions:-->
<OrgRecAreaRole>
  <OrgID>100</OrgID>
  <RecAreaID>100</RecAreaID>
  <OrgRecAreaRoleReason>string</OrgRecAreaRoleReason>
</OrgRecAreaRole>
<!--1 or more repetitions:-->
<RecArea>
  <RecAreaID>100</RecAreaID>
  <OrgRecAreaID>100</OrgRecAreaID>
  <RecAreaDataStewardID>100</RecAreaDataStewardID>
  <RecAreaName>string</RecAreaName>
  <RecAreaURLAddress>string</RecAreaURLAddress>
  <RecAreaURLText>string</RecAreaURLText>
```

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```
<RecAreaDirections>string</RecAreaDirections>
<RecAreaDescription>string</RecAreaDescription>
<RecAreaFeeDescription>string</RecAreaFeeDescription>
<RecAreaMapUrl>string</RecAreaMapUrl>
<RecAreaImageUrl>string</RecAreaImageUrl>
<RecAreaImageCaption>string</RecAreaImageCaption>
<RecAreaReservationUrl>string</RecAreaReservationUrl>
<RecAreaPhone>string</RecAreaPhone>
<RecAreaEmail>string</RecAreaEmail>
<RecAreaEnabled>string</RecAreaEnabled>
</RecArea>
<!--1 or more repetitions:-->
<RecAreaActivity>
  <RecAreaID>100</RecAreaID>
  <RecActivityID>100</RecActivityID>
  <RecAreaActivityDescription>string</RecAreaActivityDescription>
  <RecAreaActivityFeeDescription>string</RecAreaActivityFeeDescription>
</RecAreaActivity>
<!--1 or more repetitions:-->
<RecAreaAddress>
  <AddressID>100</AddressID>
  <StreetAddress1>string</StreetAddress1>
  <StreetAddress2>string</StreetAddress2>
  <StreetAddress3>string</StreetAddress3>
  <City>string</City>
  <AddressStateCode>
    <!--You have a CHOICE of the next 2 items at this level-->
<fips:InternationalStateCodeTypeElement>SZ11</fips:InternationalStateCodeTypeElement>
  <fips1:USStateCodeTypeElement>RI</fips1:USStateCodeTypeElement>
  </AddressStateCode>
  <PostalCode>string</PostalCode>
  <AddressCountryCode>41013</AddressCountryCode>
  <RecAreaID>100</RecAreaID>
  <RecAreaAddressType>Physical Address</RecAreaAddressType>
  <RecAreaAddressID>string</RecAreaAddressID>
</RecAreaAddress>
<!--1 or more repetitions:-->
<RecAreaFacility>
  <RecAreaID>100</RecAreaID>
  <FacilityID>100</FacilityID>
</RecAreaFacility>
<!--1 or more repetitions:-->
</RecElements>
```

## Appendix B – RIDB Data Entry and Validation Rules

This appendix shows general data input rules and specifications that govern input format for specific data fields.

### ***B.1 General Data Entry Rules:***

1. **Date Format.** RIDB expects input dates in the format MM/DD/YYYY.
2. **Telephone Numbers.** RIDB will accept any combination of these elements: <digit><char><whitespace>-(<period>. For example, these are all valid: 800-555- 1234xABC, 888-JFKSITE, (800)555.1234.
3. **Text Length.** There are reasonability checks to ensure enough characters have been entered. For descriptive information, the length allowed is up to 4000 characters.
4. **Upper/Lower Case.** In general, data input that is verified by RIDB is not case-sensitive. That is, if a user enters all capital letters, all small letters, or a mix of both, the system will recognize the input.
5. **URL Address.** URL addresses need to conform to acceptable URL formats.

***B.2 RIDB Data Elements and Data Validation Rules***

**Organization**

<b>Data Element</b>	<b>Required</b>	<b>Description</b>	<b>Type S=String I=Integer D=Date</b>	<b>Data Validation Rules</b>
Organization Name	Y	Name of the organization	S	Must be greater than or equal to 3 characters but not more than 60 characters.
Organization URL Address	Y	Internet Address (URL) for web site of the organization responsible for submitting and maintaining the data to be exchanged	S	Format Check; Must not exceed 256 characters
Organization URL Text	Y	Readable text that provides the URL address link	S	Must be greater than or equal to 5 characters but not more than 256 characters
Organization Abbrev Name	Y	Abbreviated name of the organization	S	Must be greater than or equal to 3 characters but not more than 20 characters.

**Facility**

<b>Data Element</b>	<b>Required</b>	<b>Description</b>	<b>Type</b> <b>S=String</b> <b>I=Integer</b> <b>D=Date</b>	<b>Date Validation Rules</b>
Facility Directions	Y	Text that provides general directions and/or the general location of the facility.	S	Must be greater than 10 characters and not more than 1024 characters.
Facility Description	Y	Text description of the main features of the facility	S	Must be greater than 10 characters and no more than 4000 characters.
Facility Name	Y	Name of the facility	S	Must be greater than or equal to 3 characters and not more than 60 characters
Facility Street Address 1	Y	Text of the first line of the facility address	S	Must be greater than 2 characters but cannot exceed 256 characters.
Facility URL Address	N	Internet address (URL) for the web site containing information about the facility	S	Required if there is a Facility URL Address; Must be greater than or equal to 5 characters but not more than 256 characters

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<b>Data Element</b>	<b>Required</b>	<b>Description</b>	<b>Type</b> <b>S=String</b> <b>I=Integer</b> <b>D=Date</b>	<b>Date Validation Rules</b>
Facility URL Text	N	Display text providing for the URL address link to the recreational area website.	S	Required if there is a Facility URL Address; Must be greater than or equal to 5 characters but not more than 256 characters
Facility Email	Y	Email address of the Facility	S	Format Check; Must not exceed 256 characters
Enabled	Y	True or false value to indicate if the Facility is active in the system	I	Should be set to 1 if the Facility is active in the system and 0 if the Facility is inactive

Recreation Area

Data Element	Required	Description	Type S=String I=Integer D=Date	Date Validation Rules
Recreation Area Directions	Y	Text that provides general directions and/or the general location of the Recreation Area.	S	Must be greater than 10 characters and not more than 1024 characters.
Recreation Area Description	Y	Text description of the main features of the Recreation Area	S	Must be greater than 10 characters and no more than 4000 characters.
Recreation Area Name	Y	Name of the Recreation Area	S	Must be greater than or equal to 3 characters and not more than 60 characters
Recreation Area Street Address 1	Y	Text of the first line of the Recreation Area address	S	Must be greater than 2 characters but cannot exceed 256 characters.

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<b>Data Element</b>	<b>Required</b>	<b>Description</b>	<b>Type</b> <b>S=String</b> <b>I=Integer</b> <b>D=Date</b>	<b>Date Validation Rules</b>
Recreation Area URL Address	N	Internet address (URL) for the web site containing information about the Recreation Area	S	Required if there is a Recreation Area URL Address;  Must be greater than or equal to 5 characters but not more than 256 characters
Recreation Area URL Text	N	Display text providing for the URL address link to the recreational area website.	S	Required if there is a Recreation Area URL Address;  Must be greater than or equal to 5 characters but not more than 256 characters
Recreation Area Email	Y	Email address of the Recreation Area	S	Format Check; Must not exceed 256 characters
Enabled	Y	True or false value to indicate if the Recreation Area is active in the system	I	Should be set to 1 if the Facility is active in the system and 0 if the Recreation Area is inactive