

Data Exchange

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Description

The Data Exchange feature consists of the following sections:

- Data Exchange UI
 - ID/Pedigree
 - Evaluation
 - Genotype
 - Errors
 - Progeny
 - Lactation
 - Herd
 - Special Section
 - Reports
 - Calving Ease
 - Create Format
- Working with 3rd Parties clients (Postman)
 - Run with Input JSON from Data Exchange UI
 - Run the same Query but for another input file uploaded through the API

This guide describes the features of the Data Exchange and its supported functions.

Note: The features will be hidden/shown when the user has proper access permissions.

Part 1: Data Exchange UI

Step 1: Login successfully on <https://40.142.54.172/>

COLLABORATOR LOGIN

Username or Email

Password

[Forgot Password?](#)

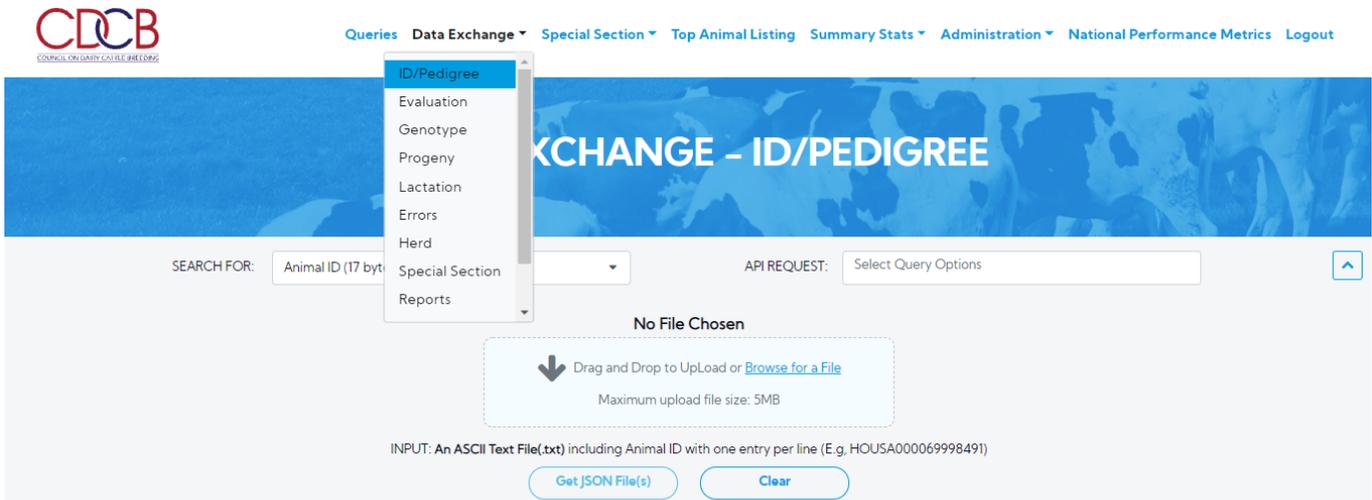
[Register New Account?](#)

LOGIN

WARNING: This system is for the use of authorized users only. Individuals using this computer system without authority, or in excess of their authority, are subject to having all of their activities on this system monitored and recorded by system personnel. In the course of monitoring individuals improperly using this system, or in the course of system maintenance, the activities of authorized users may also be monitored.

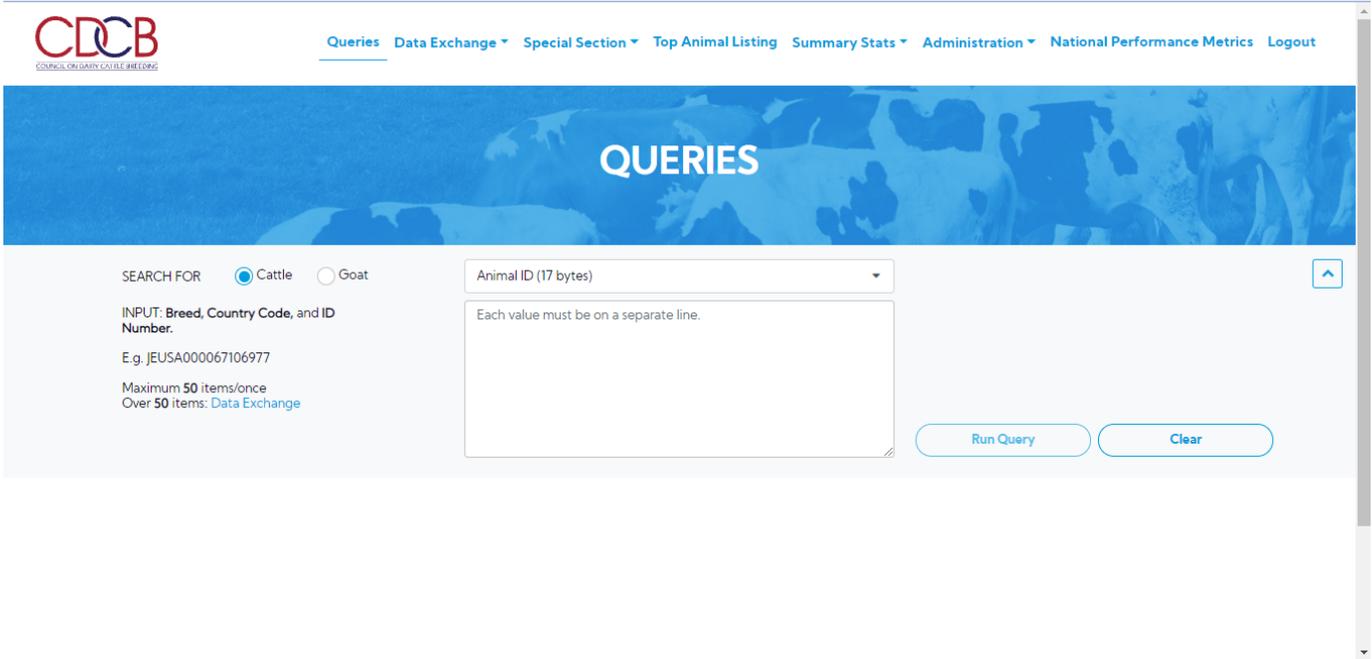
There are 2 places having a link to Data Exchange

- On the navigation, Data Exchange is between Queries and Special Section.



The screenshot shows the CDCB website's navigation bar with 'Data Exchange' selected. A dropdown menu is open, listing options: ID/Pedigree, Evaluation, Genotype, Progeny, Lactation, Errors, Herd, Special Section, and Reports. The main content area is titled 'EXCHANGE - ID/PEDIGREE'. It features a search bar with 'Animal ID (17 bytes)' and an API request dropdown set to 'Select Query Options'. Below this is a file upload section with a 'No File Chosen' message and a 'Browse for a File' link. The maximum upload file size is 5MB. At the bottom, there is an input instruction: 'INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOUSA000069998491)' and buttons for 'Get JSON File(s)' and 'Clear'.

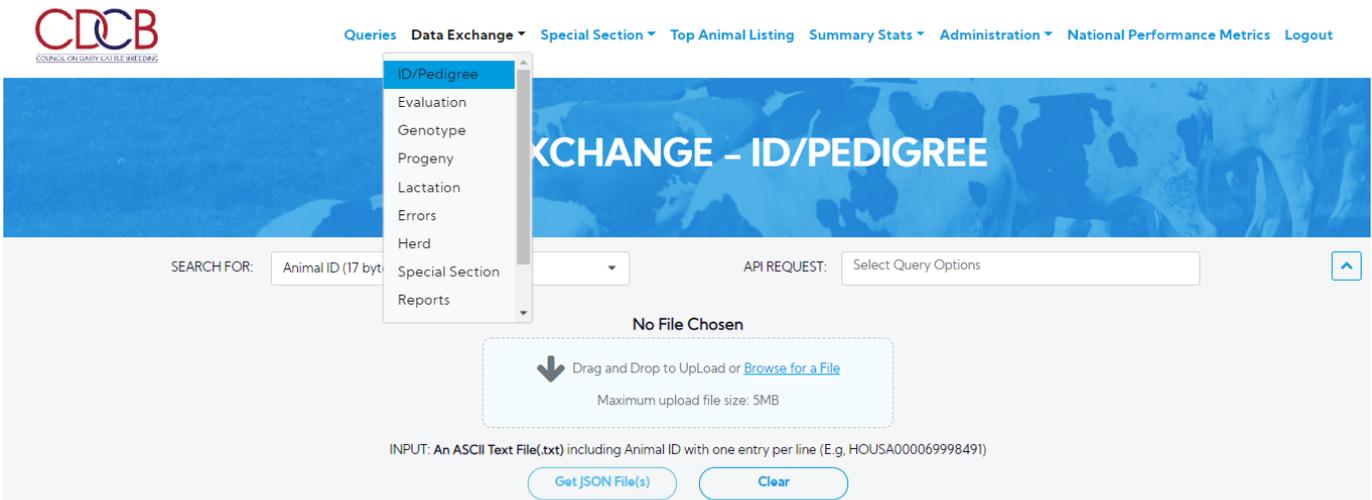
- On the queries page, there is a link to Data Exchange, it will navigate to Data Exchange – Evaluation by default



Procedure 1: Data Exchange: ID/Pedigree

Step 1: Click on the **Data Exchange** on the Navigate menu > ID/Pedigree

This page allows the user to export JSON files with ID/Pedigree Data



Step 2: The user selects an option 'SEARCH FOR' dropdown list.

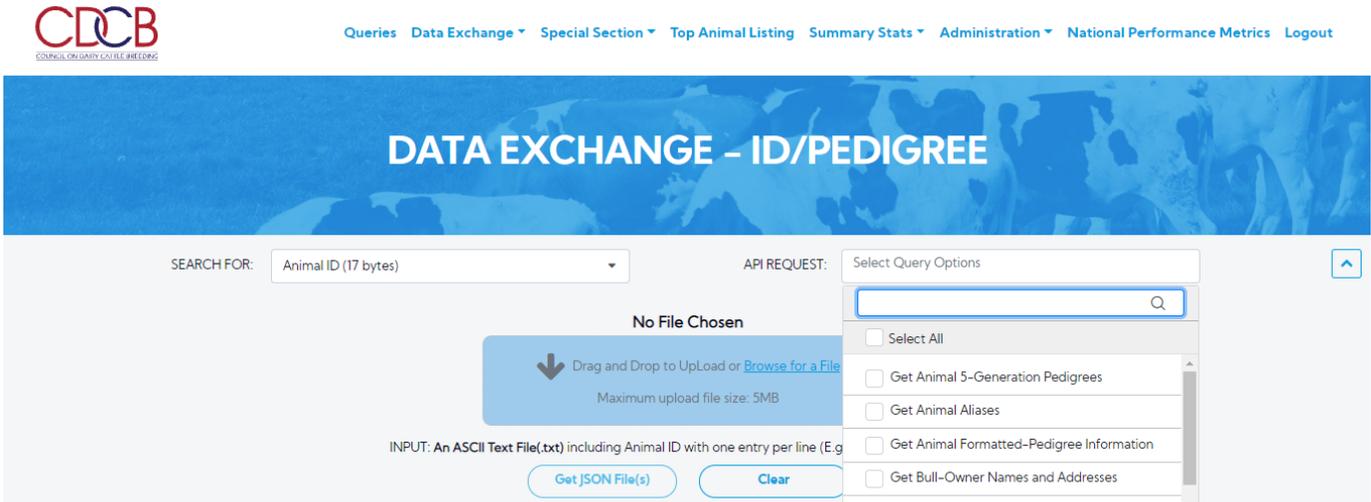
DATA EXCHANGE - ID/PEDIGREE

SEARCH FOR:

API REQUEST:

No File Chosen
Drop to Upload or [Browse for a File](#)
Maximum upload file size: 5MB
Animal ID with one entry per line (E.g. HOUSA000069998491)

Step 3: Selecting an option for 'SEARCH FOR', 'API REQUEST' will be shown based on 'SEARCH FOR'



SEARCH FOR:

API REQUEST:

No File Chosen
Drag and Drop to Upload or [Browse for a File](#)
Maximum upload file size: 5MB
INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOUSA000069998491)

- Select All
- Get Animal 5-Generation Pedigrees
- Get Animal Aliases
- Get Animal Formatted-Pedigree Information
- Get Bull-Owner Names and Addresses
- Get Cow Herd and Cow Control Numbers from Keys or ID

Step 4: Drag and Drop to Upload Or [Browse For a File](#) into attachment box a file contains the information related to the selected SEARCH FOR (Animal ID (17 bytes)) will be attached to the box

DATA EXCHANGE – ID/PEDIGREE

SEARCH FOR:

API REQUEST:

..TEST_2000_ANIMALS.txt

 Drag and Drop to Upload or [Browse for a File](#)
 Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOUSA000069998491)

[Get JSON File\(s\)](#)

[Clear](#)

Step 5: Click on the **Get JSON File(s)** button

The search area will be collapsed and it also lists out all requests being 'IN QUEUE' that will be processed one by one.

DATA EXCHANGE – ID/PEDIGREE

SEARCH FOR:

API REQUEST:

Data Exchange Request

2021_October_26_User_Request_533 | Total: 6

Start: 26-Oct-2021 22:43:41

End: 26-Oct-2021 22:44:25

Completed 6/6  

Name	Start	End	Status
Get Animal 5-Generation Pedigrees 	26-Oct-2021 22:43:43	26-Oct-2021 22:44:13	COMPLETED (89.04%)  
Get Animal Aliases 	26-Oct-2021 22:44:13	26-Oct-2021 22:44:15	COMPLETED (89.04%)  
Get Animal Formatted-Pedigree Information 	26-Oct-2021 22:44:15	26-Oct-2021 22:44:20	COMPLETED (89.04%)  
Get Bull-Owner Names and Addresses 	26-Oct-2021 22:44:20	26-Oct-2021 22:44:21	COMPLETED (46.75%)  
Get Cow Herd and Cow Control Numbers from Keys or ID 	26-Oct-2021 22:44:21	26-Oct-2021 22:44:25	COMPLETED (0.45%)  
List Members of a Clonal Family 	26-Oct-2021 22:44:25	26-Oct-2021 22:44:25	COMPLETED (0.00%)  

Procedure 2: Data Exchange: Evaluation

Step 1: Click on the Data Exchange on the Navigate menu > **Evaluation**

This page allows the user to export JSON files with Evaluation Data

Dashboard

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Step 2: The user selects an option 'SEARCH FOR' dropdown list.

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Step 3: Selecting an option for 'SEARCH FOR', 'API REQUEST' will be shown based on 'SEARCH FOR'

Data Exchange Request

2021_October_26_User_Request_536 | Total: 6

Start: 26-Oct-2021 23:19:29 End: Completed 0/6

Name	Start	End	Status	
Official Bull Evaluation	26-Oct-2021 23:19:30		RUNNING	
Historical Official Bull Evaluation			IN QUEUE	
Bull Type Evaluations (colored breeds only)			IN QUEUE	
Bull Type Composite Evaluation (for AY, BS, GU, and MS)			IN QUEUE	
Interbull Evaluation			IN QUEUE	
Interbull Type Evaluation			IN QUEUE	

Procedure 3: Data Exchange: Genotype

Step 1: Click on the Data Exchange on the Navigate menu > **Genotype**

This page allows the user to export JSON files with Genotype Data

Queries Data Exchange Special Section Top Animal Listing Summary Stats Administration National Performance Metrics Logout

SEARCH FOR: API REQUEST:

No File Chosen

Drag and Drop to Upload or [Browse for a File](#)
Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOUSA000069998491)

Step 2: The user selects an option 'SEARCH FOR' dropdown list.

DATA EXCHANGE - GENOTYPE

SEARCH FOR: Animal ID (17 bytes) ▾ API REQUEST: Select Query Options

Animal ID (17 bytes)
Sample ID (20 bytes max)

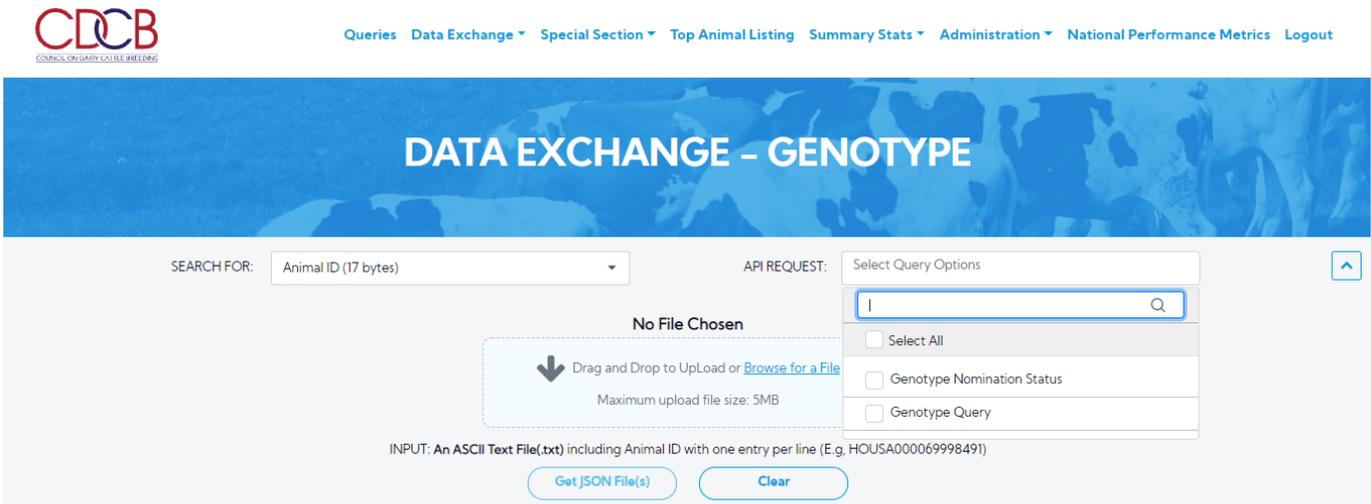
No File Chosen

↓ Drag and Drop to Upload or [Browse for a File](#)
Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOUSA000069998491)

[Get JSON File\(s\)](#) [Clear](#)

Step 3: Selecting an option for 'SEARCH FOR', 'API REQUEST' will be shown based on 'SEARCH FOR'



SEARCH FOR: Animal ID (17 bytes) ▾ API REQUEST: Select Query Options

No File Chosen

↓ Drag and Drop to Upload or [Browse for a File](#)
Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOUSA000069998491)

[Get JSON File\(s\)](#) [Clear](#)

Select All
 Genotype Nomination Status
 Genotype Query

Step 4: Drag and Drop to Upload Or [Browse For a File](#) into attachment box a file contains the information related to the selected SEARCH FOR (Animal ID (17 bytes)) will be attached to the box

DATA EXCHANGE – GENOTYPE

SEARCH FOR:
 API REQUEST:

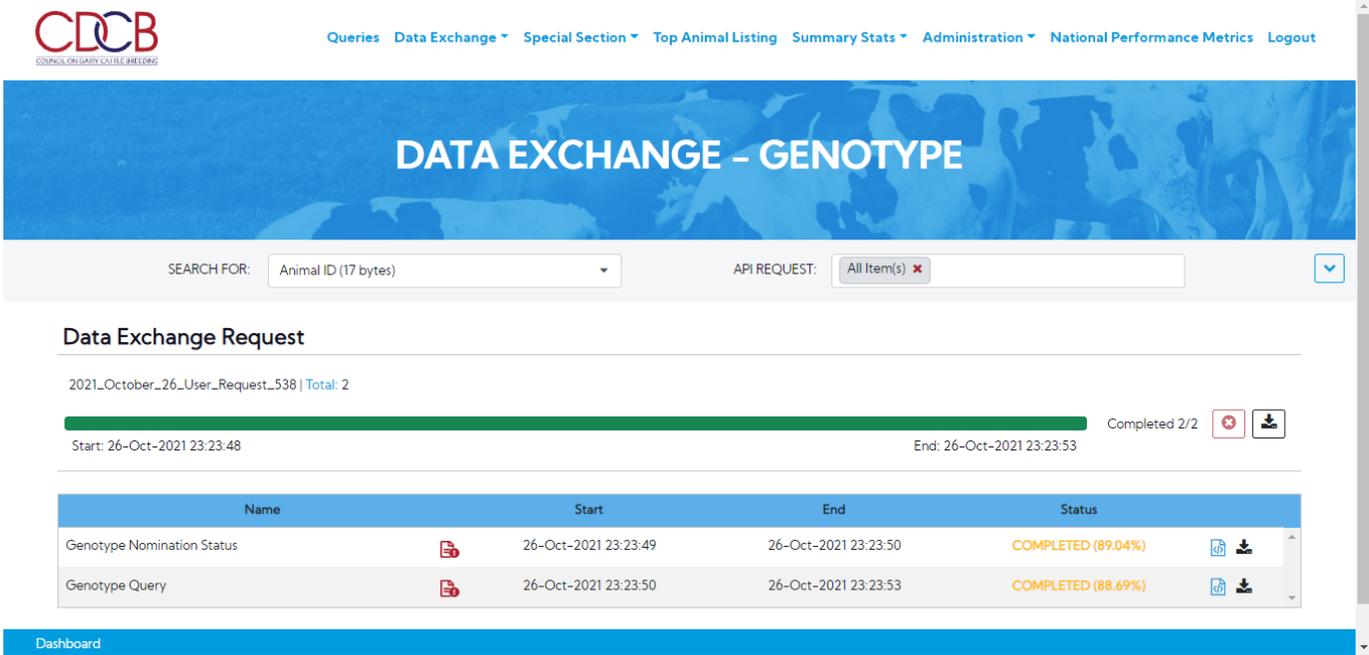
..TEST_2000_ANIMALS.txt
 Drag and Drop to Upload or [Browse for a File](#)
 Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOUSA000069998491)

[Get JSON File\(s\)](#)
[Clear](#)

Step 5: Click on the Get JSON File(s) button

The search area will be collapsed and it also lists out all requests being 'IN QUEUE' that will be processed one by one.



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[Data Exchange](#)
[Special Section](#)
[Top Animal Listing](#)
[Summary Stats](#)
[Administration](#)
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DATA EXCHANGE – GENOTYPE

SEARCH FOR:
 API REQUEST:

Data Exchange Request

2021_October_26_User_Request_538 | Total: 2

Completed 2/2

Start: 26-Oct-2021 23:23:48
 End: 26-Oct-2021 23:23:53

Name	Start	End	Status
Genotype Nomination Status	26-Oct-2021 23:23:49	26-Oct-2021 23:23:50	COMPLETED (89.04%)
Genotype Query	26-Oct-2021 23:23:50	26-Oct-2021 23:23:53	COMPLETED (88.69%)

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Procedure 4: Data Exchange: Progeny

Step 1: Click on the Data Exchange on the Navigate menu > Progeny

This page allows the user to export JSON files with Progeny Data

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DATA EXCHANGE - PROGENY

SEARCH FOR: Animal ID (17 bytes) API REQUEST: Select Query Options

No File Chosen

Drag and Drop to Upload or [Browse for a File](#)
Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOUSA000069998491)

[Get JSON File\(s\)](#) [Clear](#)

Step 2: The user selects an option 'SEARCH FOR' dropdown list.

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DATA EXCHANGE - PROGENY

SEARCH FOR: Animal ID (17 bytes) API REQUEST: Select Query Options

No File Chosen

Drag and Drop to Upload or [Browse for a File](#)
Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOUSA000069998491)

[Get JSON File\(s\)](#) [Clear](#)

Step 3: Selecting an option for 'SEARCH FOR', 'API REQUEST' will be shown based on 'SEARCH FOR'

DATA EXCHANGE – PROGENY

SEARCH FOR:

API REQUEST:

No File Chosen

↓ Drag and Drop to Upload or [Browse for a File](#)

Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOU5A000069998491)

Search:

- Select All
- Get Animal Progeny List
- Get Daughter List by Bull
- Get Daughter Type Scores by Bull (Colored Breeds Only)
- Get Recent Submission Dates and Numbers of Daughters for Type Records by Bull (Colored Breeds Only)

Step 4: Drag and Drop to Upload Or [Browse For a File](#) into attachment box a file contains the information related to the selected SEARCH FOR (Animal ID (17 bytes)) will be attached to the box

DATA EXCHANGE – PROGENY

SEARCH FOR:

API REQUEST:

_TEST_2000_ANIMALS.txt

↓ Drag and Drop to Upload or [Browse for a File](#)

Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOU5A000069998491)

Step 5: Click on the Get JSON File(s) button
The search area will be collapsed and it also lists out all requests being 'IN QUEUE' that will be processed one by one.

DATA EXCHANGE - PROGENY

SEARCH FOR:

API REQUEST:

Data Exchange Request

2021_October_26_User_Request_539 | Total: 4

Start: 26-Oct-2021 23:31:31

End:

Completed 0/4

Name	Start	End	Status	
Get Animal Progeny List	26-Oct-2021 23:31:31		RUNNING	
Get Daughter List by Bull			IN QUEUE	
Get Daughter Type Scores by Bull (Colored Breeds Only)			IN QUEUE	
Get Recent Submission Dates and Numbers of Daughters for Type Records by Bull (Colored Breeds Only)			IN QUEUE	

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Procedure 5: Data Exchange: Lactation

Step 1: Click on the Data Exchange on the Navigate menu > Lactation

This page allows the user to export JSON files with Lactation Data

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SEARCH FOR:

API REQUEST:

No File Chosen

Drag and Drop to Upload or [Browse for a File](#)

Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g, HOUSA000069998491)

[Get JSON File\(s\)](#) [Clear](#)

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Step 2: The user selects an option 'SEARCH FOR' dropdown list.

DATA EXCHANGE - LACTATION

SEARCH FOR:

API REQUEST:

No File Chosen
Drop to Upload or [Browse for a File](#)
Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOUSA000069998491)

Step 3: Selecting an option for 'SEARCH FOR', 'API REQUEST' will be shown based on 'SEARCH FOR'

DATA EXCHANGE - LACTATION

SEARCH FOR:

API REQUEST:

No File Chosen
Drag and Drop to Upload or [Browse for a File](#)
Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOUSA000069998491)

- Select All
- Get Cow Calving Information
- Get Cow Lactation Records
- Get Cow Test-Day Records

Step 4: Drag and Drop to Upload Or Browse For a File into attachment box a file contains the information related to the selected SEARCH FOR (Animal ID (17 bytes)) will be attached to the box

DATA EXCHANGE - LACTATION

SEARCH FOR:

API REQUEST:

_TEST_2000_ANIMALS.txt


 Drag and Drop to Upload or [Browse for a File](#)
 Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOUSA000069998491)

Step 5: Click on the Get JSON File(s) button

The search area will be collapsed and it also lists out all requests being 'IN QUEUE' that will be processed one by one.

DATA EXCHANGE - LACTATION

SEARCH FOR:

API REQUEST:

Data Exchange Request

2021_October_27_User_Request_541 | Total: 3

Start: 27-Oct-2021 00:19:39 End: 27-Oct-2021 00:19:49 Completed 3/3

Name	Start	End	Status
Get Cow Calving Information	27-Oct-2021 00:19:42	27-Oct-2021 00:19:44	COMPLETED (0.45%)
Get Cow Lactation Records	27-Oct-2021 00:19:44	27-Oct-2021 00:19:46	COMPLETED (1.10%)
Get Cow Test-Day Records	27-Oct-2021 00:19:46	27-Oct-2021 00:19:49	COMPLETED (0.45%)

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Procedure 6: Data Exchange: Errors

Step 1: Click on the Data Exchange on the Navigate menu > Errors

This page allows the user to export JSON files with Errors Data

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Queries Data Exchange Special Section Top Animal Listing Summary Stats Administration National Performance Metrics Logout

DATA EXCHANGE - ERRORS

SEARCH FOR: Animal ID (17 bytes)

SEX: Male Female

API REQUEST: Get Error records by Bull ID ✖

NUMBER OF PRECEDING MONTHS: 1

No File Chosen

Drag and Drop to Upload or [Browse for a File](#)

Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOUSA000069998491)

Get JSON File(s) Clear

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Step 2: The user selects an option 'SEARCH FOR' dropdown list.

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Queries Data Exchange Special Section Top Animal Listing Summary Stats Administration National Performance Metrics Logout

DATA EXCHANGE - ERRORS

SEARCH FOR: **Animal ID (17 bytes)**

SEX: Male Female

API REQUEST: Get Error records by Bull ID ✖

NUMBER OF PRECEDING MONTHS: 1

No File Chosen

Drag and Drop to Upload or [Browse for a File](#)

Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOUSA000069998491)

Get JSON File(s) Clear

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Step 3: Selecting an option for 'SEARCH FOR', 'API REQUEST' will be shown based on 'SEARCH FOR'

DATA EXCHANGE – ERRORS

SEARCH FOR: SEX: Male Female API REQUEST: Get Error records by Bull ID

NUMBER OF PRECEDING MONTHS:

No File Chosen

↓ Drag and Drop to Upload or [Browse for a File](#)

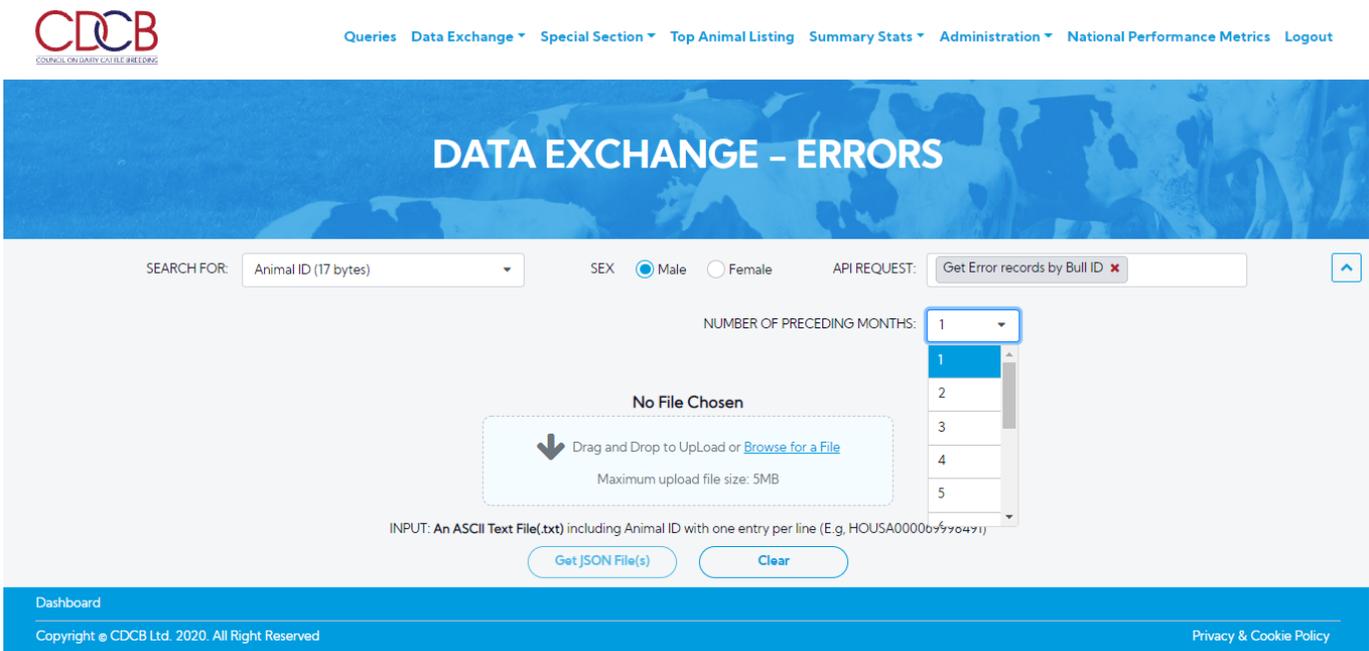
Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOUSA000069998491)

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Step 4: Select "NUMBER OF PRECEDING MONTHS"



DATA EXCHANGE – ERRORS

SEARCH FOR: SEX: Male Female API REQUEST: Get Error records by Bull ID

NUMBER OF PRECEDING MONTHS:

No File Chosen

↓ Drag and Drop to Upload or [Browse for a File](#)

Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOUSA000069998491)

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Step 5: Drag and Drop to Upload Or [Browse For a File](#) into attachment box a file contains the information related to the selected SEARCH FOR (Animal ID (17 bytes)) will be attached to the box

DATA EXCHANGE – ERRORS

SEARCH FOR:
 SEX: Male Female
 API REQUEST:

NUMBER OF PRECEDING MONTHS:

_TEST_2000_ANIMALS.txt


 Drag and Drop to Upload or [Browse for a File](#)
 Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOUSA000069998491)

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Step 6: Click on the Get JSON File(s) button

The search area will be collapsed and it also lists out all requests being 'IN QUEUE' that will be processed one by one.

DATA EXCHANGE – ERRORS

SEARCH FOR:
 SEX: Male Female
 API REQUEST:

NUMBER OF PRECEDING MONTHS:

Data Exchange Request

2021_October_27_User_Request_542 | Total: 1

Completed 1/1  

Start: 27-Oct-2021 00:31:06 End: 27-Oct-2021 00:31:12

Name	Start	End	Status
Get Error records by Bull ID 	27-Oct-2021 00:31:08	27-Oct-2021 00:31:12	COMPLETED (0.00%) 

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Procedure 6: Data Exchange: Herd

Step 1: Click on the Data Exchange on the Navigate menu > Herd

This page allows the user to export JSON files with Herd Data

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Queries Data Exchange ▾ Special Section ▾ Top Animal Listing Summary Stats ▾ Administration ▾ National Performance Metrics Logout

DATA EXCHANGE - HERD

SEARCH FOR: Herd ID ▾ API REQUEST: Select Query Options

No File Chosen

Drag and Drop to Upload or [Browse for a File](#)
Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Herd ID with one entry per line (E.g., 35720667)

[Get JSON File\(s\)](#) [Clear](#)

Step 2: The user selects an option 'SEARCH FOR' dropdown list.

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Queries Data Exchange ▾ Special Section ▾ Top Animal Listing Summary Stats ▾ Administration ▾ National Performance Metrics Logout

DATA EXCHANGE - HERD

SEARCH FOR: Herd ID ▾ API REQUEST: Select Query Options

No File Chosen

Drag and Drop to Upload or [Browse for a File](#)
Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Herd ID with one entry per line (E.g., 35720667)

[Get JSON File\(s\)](#) [Clear](#)

Step 3: Selecting an option for 'SEARCH FOR', 'API REQUEST' will be shown based on 'SEARCH FOR'

DATA EXCHANGE - HERD

SEARCH FOR: API REQUEST:

No File Chosen

↓ Drag and Drop to Upload or [Browse for a File](#)
Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Herd ID with one entry per line

Select All
 Check Owner-sampler Herd and Get Testing Characteristics
 Get Cow Lactation Records by Herd
 Get Herd Data-collection Ratings (DCR's) and Testing Characteristics
 Get Herd Test Days

- In the case of the “Get Herd Test Days” API Request is selected, a radio button will appear that allows the user to search the herd test-day have coverage within 1 year or all years

DATA EXCHANGE - HERD

SEARCH FOR: API REQUEST:

1 Year All

No File Chosen

↓ Drag and Drop to Upload or [Browse for a File](#)
Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Herd ID with one entry per line (E.g., 35720667)

Step 4: Drag and Drop to UpLoad Or [Browse For a File](#) into attachment box a file contains the information related to the selected SEARCH FOR (Animal ID (17 bytes)) will be attached to the box

DATA EXCHANGE - HERD

SEARCH FOR:
 API REQUEST:

1 Year
 All

_TEST_HERD.txt


 Drag and Drop to Upload or [Browse for a File](#)
 Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Herd ID with one entry per line (E.g., 35720667)

Step 5: Click on the Get JSON File(s) button

The search area will be collapsed and it also lists out all requests being 'IN QUEUE' that will be processed one by one.

DATA EXCHANGE - HERD

SEARCH FOR:
 API REQUEST:

1 Year
 All

Data Exchange Request

2021_October_27_User_Request_544 | Total: 7

Start: 27-Oct-2021 00:45:25 End: Completed 1/7

Name	Start	End	Status	
Check Owner-sampler Herd and Get Testing Characteristics	27-Oct-2021 00:45:26	27-Oct-2021 00:45:30	COMPLETED (95.56%)	
Get Cow Lactation Records by Herd	27-Oct-2021 00:45:30		RUNNING	
Get Herd Data-collection Ratings (DCR's) and Testing Characteristics			IN QUEUE	
Get Herd Test Days			IN QUEUE	

Procedure 7: Data Exchange: Special Section

Step 1: Click on the Data Exchange on the Navigate menu > Special Section

This page allows the user to export JSON files with Special Section Data

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Queries Data Exchange Special Section Top Animal Listing Summary Stats Administration National Performance Metrics Logout

DATA EXCHANGE - SPECIAL SECTION

SEARCH FOR: Animal ID (17 bytes) API REQUEST: Select Query Options

No File Chosen

Drag and Drop to Upload or [Browse for a File](#)
Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOUSA000069998491)

[Get JSON File\(s\)](#) [Clear](#)

Step 2: The user selects an option 'SEARCH FOR' dropdown list.

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Queries Data Exchange Special Section Top Animal Listing Summary Stats Administration National Performance Metrics Logout

DATA EXCHANGE - SPECIAL SECTION

SEARCH FOR: Animal ID (17 bytes) API REQUEST: Select Query Options

No File Chosen

Drop to Upload or [Browse for a File](#)
Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOUSA000069998491)

[Get JSON File\(s\)](#) [Clear](#)

Step 3: Selecting an option for 'SEARCH FOR', 'API REQUEST' will be shown based on 'SEARCH FOR'

DATA EXCHANGE – SPECIAL SECTION

SEARCH FOR:

API REQUEST:

No File Chosen

Drag and Drop to Upload or [Browse for a File](#)

Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOUSA000069998491)

- Select All
- Get Herd Code and CDCB Fee for Specified Animal ID
- History of Genotypes
- Sample ID Lookup
- Suggested Dam

Step 4: Drag and Drop to UpLoad Or [Browse For a File](#) into attachment box a file contains the information related to the selected SEARCH FOR (Animal ID (17 bytes)) will be attached to the box

DATA EXCHANGE – SPECIAL SECTION

SEARCH FOR:

API REQUEST:

`..TEST..2000..ANIMALS.txt`

Drag and Drop to Upload or [Browse for a File](#)

Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOUSA000069998491)

Step 5: Click on the Get JSON File(s) button
The search area will be collapsed and it also lists out all requests being 'IN QUEUE' that will be processed one by one.

DATA EXCHANGE – SPECIAL SECTION

SEARCH FOR: API REQUEST:

Data Exchange Request

2021_October_27_User_Request_545 | Total: 4

Start: 27-Oct-2021 02:57:49 End: Completed 0/4

Name	Start	End	Status
Get Herd Code and CDCB Fee for Specified Animal ID	27-Oct-2021 02:57:52		RUNNING
History of Genotypes			IN QUEUE
Sample ID Lookup			IN QUEUE
Suggested Dam			IN QUEUE

Dashboard
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Procedure 8: Data Exchange: Report

Step 1: Click on the Data Exchange on the Navigate menu > Report

This page allows the user to export JSON files with Report Data

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EXCHANGE – REPORTS

API REQUEST: AFFILIATE:

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Step 2: The user selects an option 'API REQUEST' dropdown list.

DATA EXCHANGE - REPORTS

API REQUEST: AFFILIATE:

- Select All
- Animals with Genotypes that Conflict with Imputed Dam Genotypes
- Animals with Unlikely Grandsire (and no Other Conflict) in the Past 6 Months
- Check for Missing Pedigree of Animals Nominated in the Past 75 Days
- Conflicts for Genotypes Loaded in the Past

Step 3: Selecting an option for 'SEARCH FOR', 'API REQUEST' will be shown based on 'SEARCH FOR'

DATA EXCHANGE - REPORTS

API REQUEST: AFFILIATE:

- Select All
- ABS (N)
- ABSCOM (N)
- Affymetrix (L)
- AIPL (N)
- Alta (N)

Step 4: Click on the Get JSON File(s) button

The search area will be collapsed and it also lists out all requests being 'IN QUEUE' that will be processed one by one.

DATA EXCHANGE - REPORTS

API REQUEST:

All Item(s) ✖

AFFILIATE:

All Item(s) ✖



Data Exchange Request

2021_October_27_User_Request_1902 | Total: 10

Start: 27-Oct-2021 03:05:15

End: 27-Oct-2021 03:06:23

Completed 10/10



Name	Start	End	Status
Animals with Genotypes that Conflict with Imputed Dam Genotypes	27-Oct-2021 03:05:15	27-Oct-2021 03:05:16	COMPLETED (6.90%)
Animals with Unlikely Grandsire (and no Other Conflict) in the Past 6 Months	27-Oct-2021 03:05:16	27-Oct-2021 03:05:18	COMPLETED (0.86%)
Check for Missing Pedigree of Animals Nominated in the Past 75 Days	27-Oct-2021 03:05:18	27-Oct-2021 03:05:20	COMPLETED (0.00%)
Conflicts for Genotypes Loaded in the Past 45 Days	27-Oct-2021 03:05:20	27-Oct-2021 03:05:22	COMPLETED (0.00%)

Procedure 9: Data Exchange: Calving Ease

Step 1: Click on the Data Exchange on the Navigate menu > Calving Ease

This page allows the user to export JSON files with Calving Ease Data

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DATA EXCHANGE - CALVING EASE

SEARCH FOR: Animal ID (17 bytes) API REQUEST: Select Query Options

No File Chosen

Drag and Drop to Upload or [Browse for a File](#)
Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOUSA000069998491)

[Get JSON File\(s\)](#) [Clear](#)

Dashboard

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Step 2: The user selects an option 'SEARCH FOR' dropdown list.

DATA EXCHANGE – CALVING EASE

SEARCH FOR:

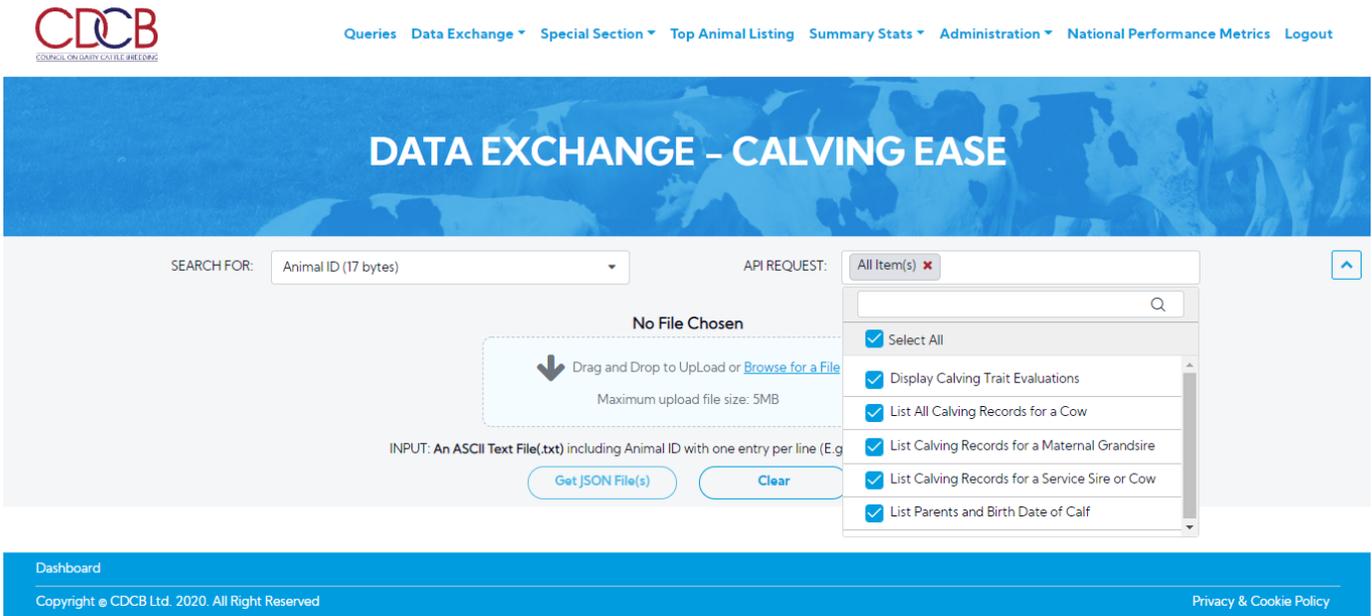
API REQUEST:

No File Chosen

↓ Drag and Drop to Upload or [Browse for a File](#)
Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOUSA000069998491)

Step 3: Selecting an option for 'SEARCH FOR', 'API REQUEST' will be shown based on 'SEARCH FOR'



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DATA EXCHANGE – CALVING EASE

SEARCH FOR:

API REQUEST:

No File Chosen

↓ Drag and Drop to Upload or [Browse for a File](#)
Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOUSA000069998491)

- Select All
- Display Calving Trait Evaluations
- List All Calving Records for a Cow
- List Calving Records for a Maternal Grand sire
- List Calving Records for a Service Sire or Cow
- List Parents and Birth Date of Calf

Step 4: Drag and Drop to Upload Or [Browse For a File](#) into attachment box a file contains the information related to the selected SEARCH FOR (Animal ID (17 bytes)) will be attached to the box

DATA EXCHANGE – CALVING EASE

SEARCH FOR:

API REQUEST:

_TEST_2000_ANIMALS.txt


 Drag and Drop to Upload or [Browse for a File](#)
 Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOUSA000069998491)

Step 5: Click on the Get JSON File(s) button

The search area will be collapsed and it also lists out all requests being 'IN QUEUE' that will be processed one by one.

DATA EXCHANGE – CALVING EASE

SEARCH FOR:

API REQUEST:

Data Exchange Request

2021_October_27_User_Request_1903 | Total: 5

Start: 27-Oct-2021 03:16:10 End:  Completed 2/5  

Name	Start	End	Status
Display Calving Trait Evaluations 	27-Oct-2021 03:16:13	27-Oct-2021 03:16:14	COMPLETED (49.70%)  
List All Calving Records for a Cow 	27-Oct-2021 03:16:14	27-Oct-2021 03:16:16	COMPLETED (0.15%)  
List Calving Records for a Maternal Grand sire	27-Oct-2021 03:16:16		RUNNING  
List Calving Records for a Service Sire or Cow			IN QUEUE  
List Parents and Birth Date of Calf			IN QUEUE  

Procedure 10: Data Exchange: Create Format

Step 1: Click on the Data Exchange on the Navigate menu > Create Format

This page allows the user to export JSON files with the Formats Data

DATA EXCHANGE – CREATE FORMAT

SEARCH FOR: SEX: Male Female API REQUEST: ⬆

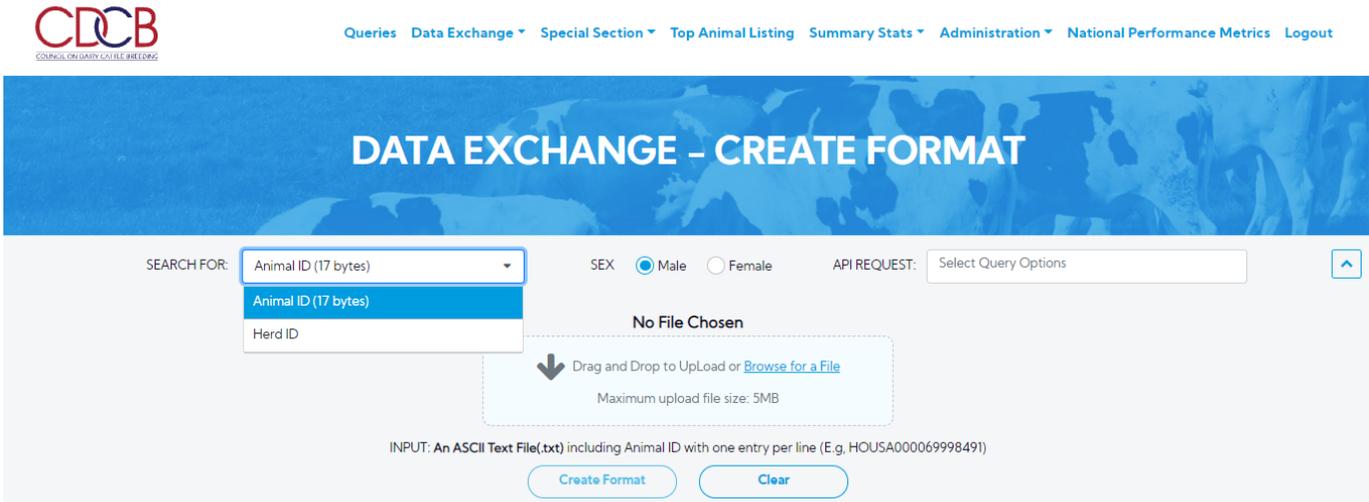
No File Chosen

⬇ Drag and Drop to Upload or [Browse for a File](#)

Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOUSA000069998491)

Step 2: The user selects an option 'SEARCH FOR' dropdown list.



DATA EXCHANGE – CREATE FORMAT

SEARCH FOR: SEX: Male Female API REQUEST: ⬆

- Animal ID (17 bytes)
- Herd ID

No File Chosen

⬇ Drag and Drop to Upload or [Browse for a File](#)

Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOUSA000069998491)

Step 3: Selecting an option for 'SEARCH FOR', 'API REQUEST' will be shown based on 'SEARCH FOR' and 'SEX'

DATA EXCHANGE – CREATE FORMAT

SEARCH FOR: SEX: Male Female API REQUEST:

No File Chosen

↓ Drag and Drop to Upload or [Browse for a File](#)

Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOUSA000069998491)

Select All
 Make Animal format-1 records
 Make format-105 for Bull Daughter

Step 4: Drag and Drop to UpLoad Or [Browse For a File](#) into attachment box a file contains the information related to the selected SEARCH FOR (Animal ID (17 bytes)) will be attached to the box

DATA EXCHANGE – CREATE FORMAT

SEARCH FOR: SEX: Male Female API REQUEST:

..TEST_2000_ANIMALS.txt

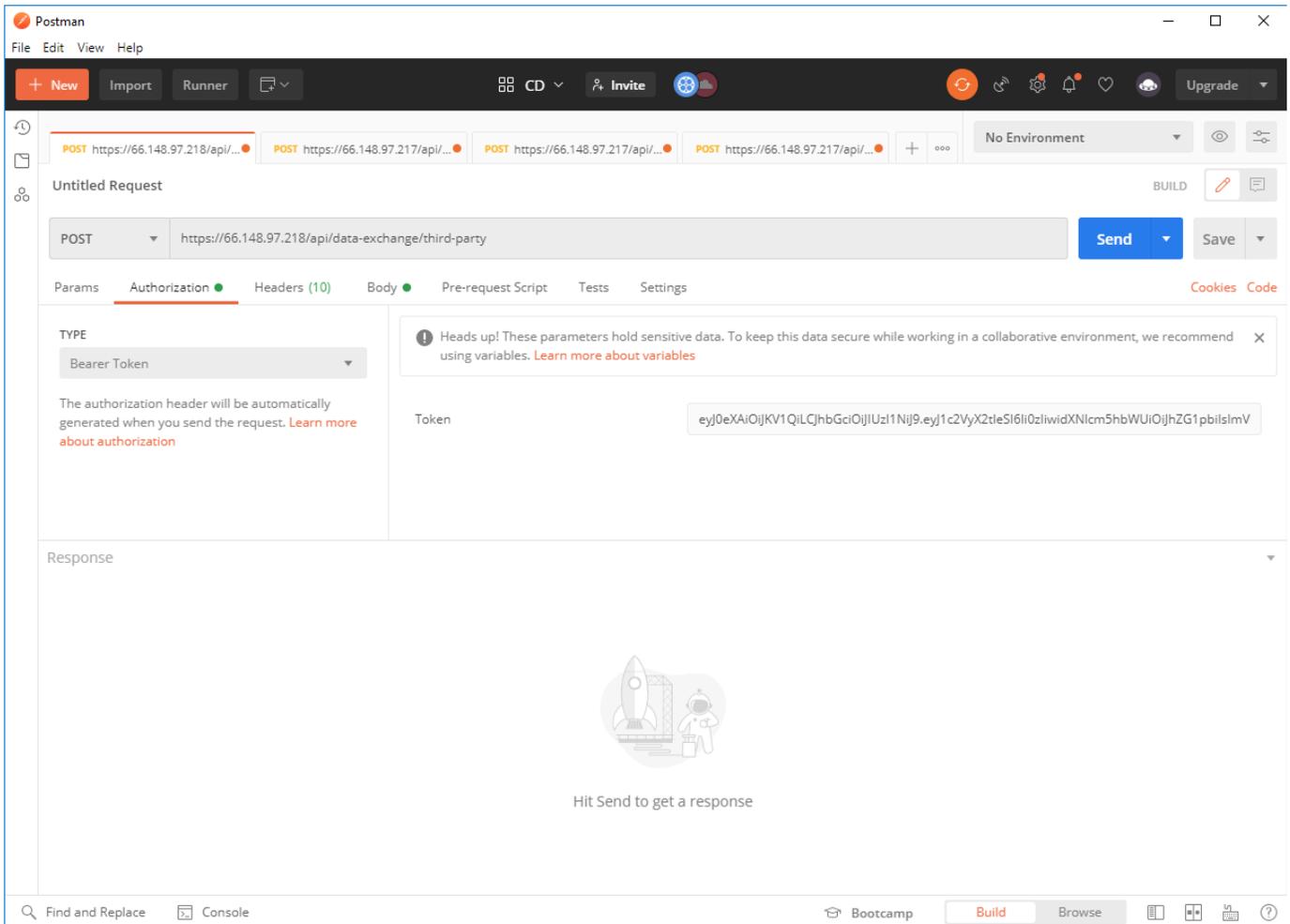
↓ Drag and Drop to Upload or [Browse for a File](#)

Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g. HOUSA000069998491)

Step 5: Click on the Create Format button

The search area will be collapsed and it also lists out all requests being 'IN QUEUE' that will be processed one by one.



Step 6: Click Send the request

The system will trigger the query to run with selected inputs and the result will be returned

Step 7: Click Save Response > Save to a file on the result section to download the output JSON file.

Procedure 2: Uploading new input file through the API and use for new request

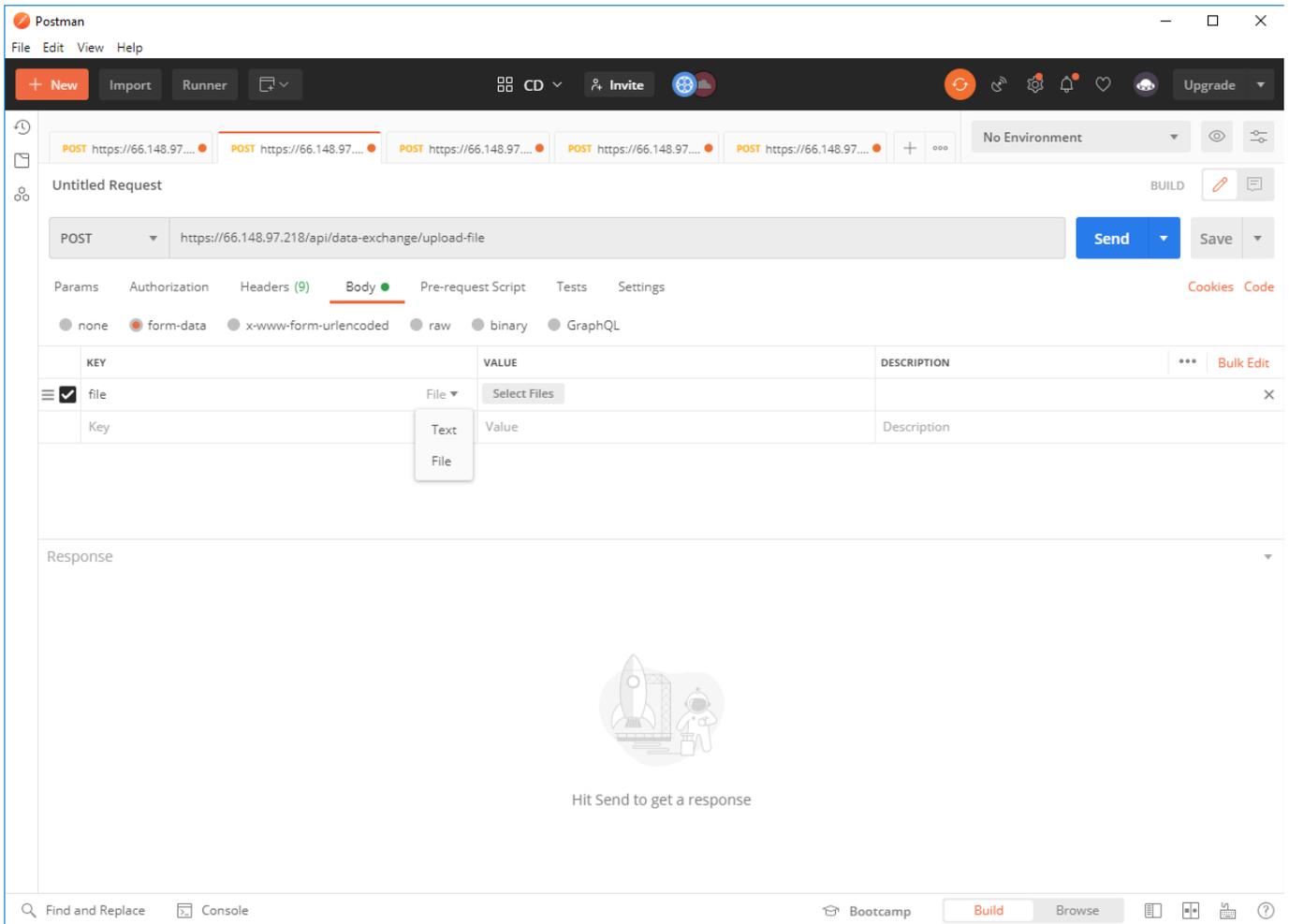
Step 1: Create a new Request:

- request URL: <https://40.142.54.172/api/data-exchange/upload-file>
- method: POST

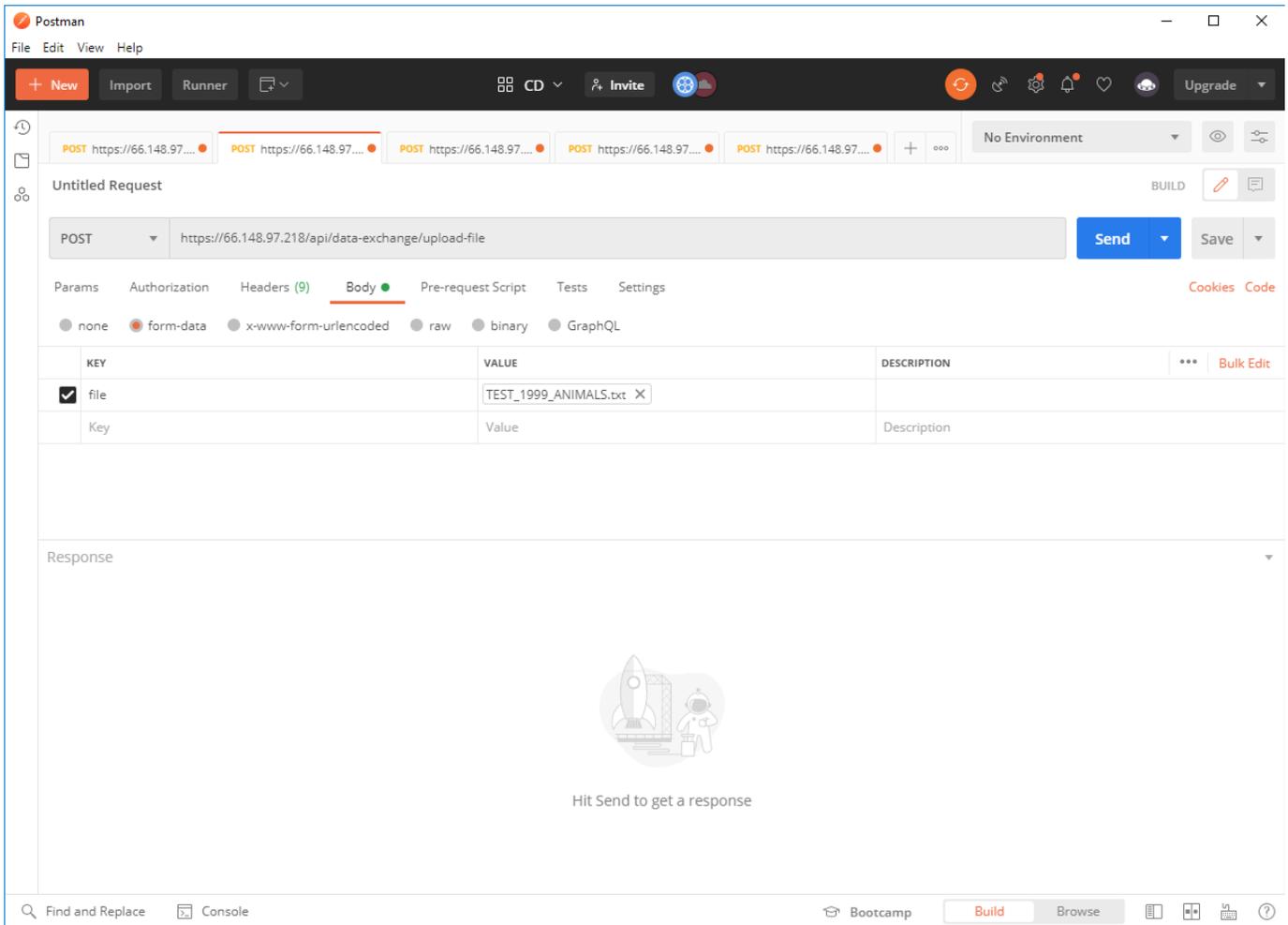
Step 2: Input the local input file

On the Body tab select:

- Key: file

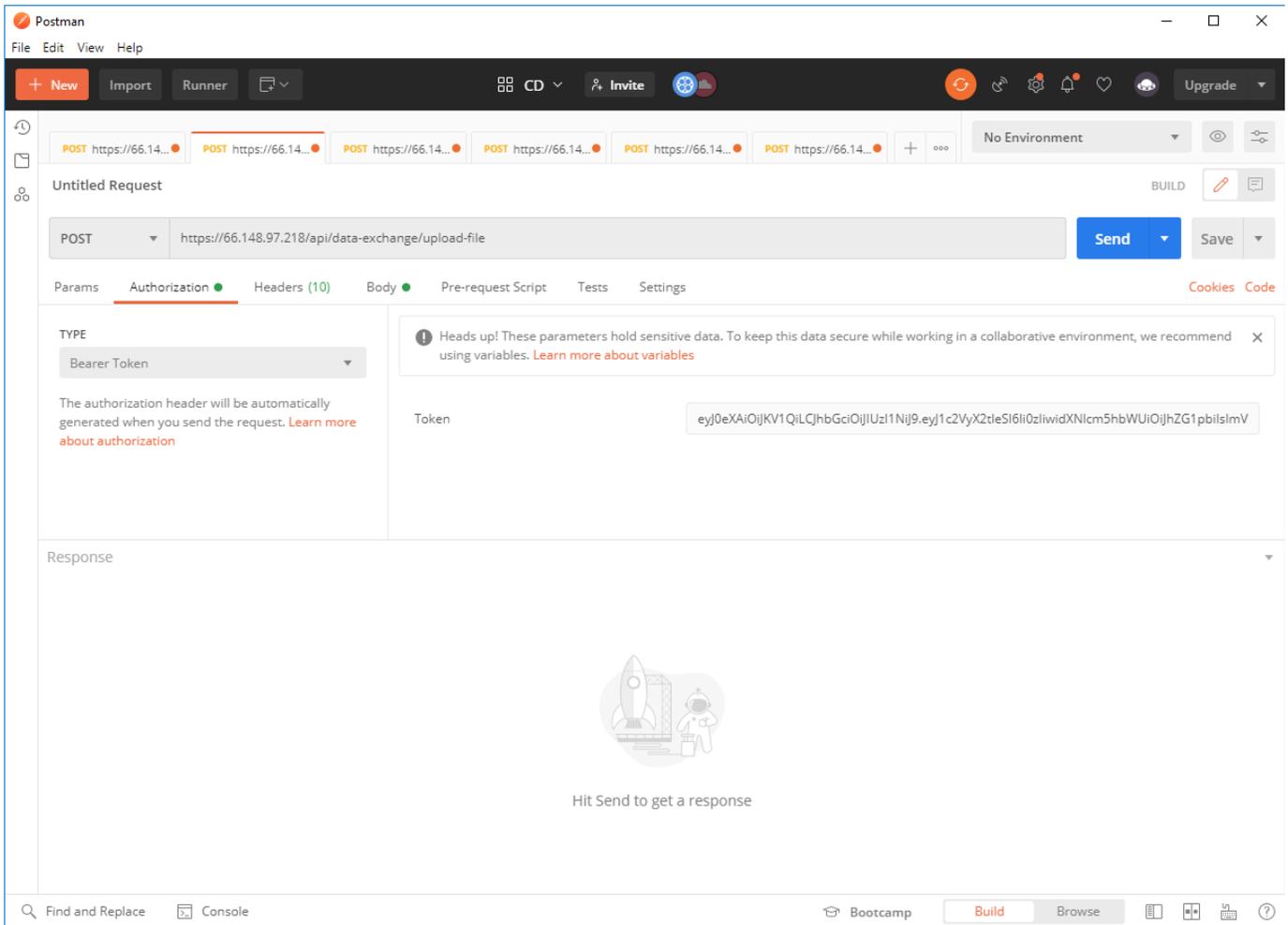


Step 3: Using the Select Files button to choose the local input file:



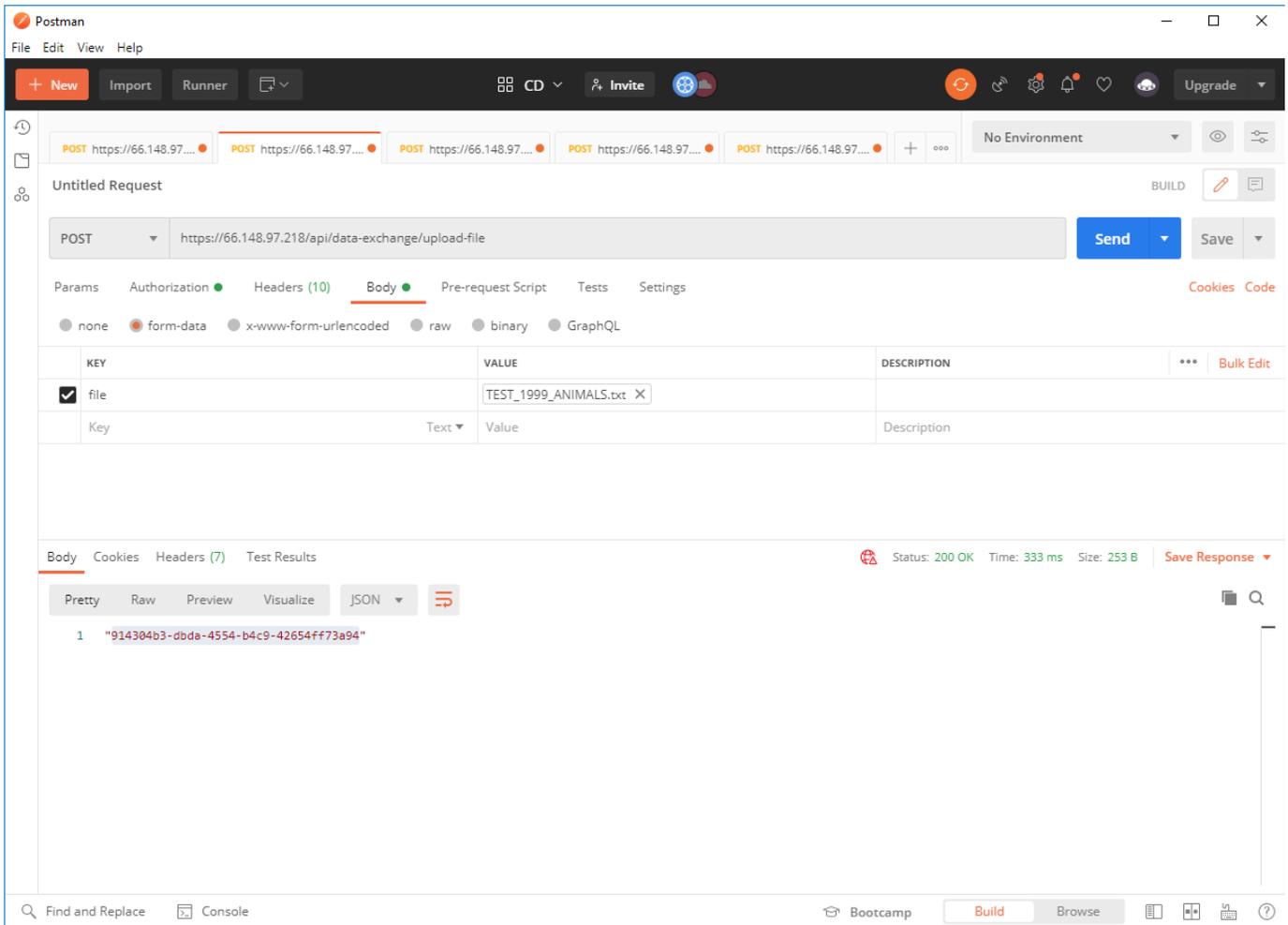
Step 4: Make sure the request has the correct Authorization setup

- Type: Bearer Token
- Token: <the same value as the JSON input>



Step 5: Click Send.

The request will be processed. The system will return an id string representing the input file.



Step 5: Replace the input file-id to send a new request to Data Exchange

When the process is finished the system will return the JSON output file on the body of the request ready to be downloaded.

Postman interface showing a REST client request configuration and response. The request is a POST to `https://66.148.97.218/api/data-exchange/third-party` with a JSON body. The response is a 200 OK status with a large JSON payload.

Request Configuration:

- Method: POST
- URL: `https://66.148.97.218/api/data-exchange/third-party`
- Body Type: raw
- Body Content:

```
1 {
2   "searchOption": "ANIM_KEY_17",
3   "inputType": "FILE",
4   "input": "914304b3-dbda-4554-b4c9-42654ff73a94",
5   "query": "Get Animal Type-composite Information for AY, BS, GU, and MS",
6   "token": "Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ1c2VyX2tleSI6IjQ0NTciLCJ2VybmFtZSI6ImFkbWluIiwiaXNjaXhwIjoxNjE5NzUxOTkwLjZldmIiwiaWF0Ij01NjY2MzI3MjY0Lm0"
7 }
```

Response:

- Status: 200 OK
- Time: 3.58 s
- Size: 19.85 KB
- Content Type: application/json
- Response Body (Raw):

```
1 PK...;...Animal_Type_Composite_Information_For_Ay_Bs_Gu_Ms_20210423032656674652.json...
2 {
3   "searchOption": "ANIM_KEY_17",
4   "inputType": "FILE",
5   "input": "914304b3-dbda-4554-b4c9-42654ff73a94",
6   "query": "Get Animal Type-composite Information for AY, BS, GU, and MS",
7   "token": "Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ1c2VyX2tleSI6IjQ0NTciLCJ2VybmFtZSI6ImFkbWluIiwiaXNjaXhwIjoxNjE5NzUxOTkwLjZldmIiwiaWF0Ij01NjY2MzI3MjY0Lm0"
8 }
9
10
11
```