

DataVat user instructions

<https://uat.datavat.com.au> (or enter 'datavat' in your browser)

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DataVat Introduction

DataVat is a web portal that allows for customised, secure access to various reports, tools and resources that draw upon data in the Australian dairy industry's centralised data repository (CDR) and information from its genetic evaluation system. The website is publicly accessible, however some access to some tools and information is restricted via a registration/login. Visit www.datavat.com.au to access the following functions which are available without user registration/login:

- Animal search for bulls, cows and heifers
- Good Bulls Guide/Australian Breeding Value (ABV) lists for bulls
- ABVs for cows (top 2% of each breed)
- Haplotype reports
- Semen fertility reports
- Genomic value tool

Functions which have restricted access via registration/login include:

- Customised tools, services and reports for bull companies (refer separate NASIS user manual)
- Customised tools, services and reports for dairy businesses, drawing upon herd records in the CDR

Depending on the farm records available in the system, the following may be available for dairy businesses:

- Genetic Progress Report
- Genetic Futures Report
- Fertility Focus Report
- More reports to come.

Current Status (July 2020)

1. DataVat is not supported on Internet Explorer. Please use Chrome, Edge, Safari, Firefox or other web browsers. Internet Explorer is no longer supported by Microsoft.
2. DataVat shows all bulls at "Animal Search" and includes active, non-active and restricted bulls. If you need to select a specific animal 'status,' use 'More Filters' to select the 'status' accordingly.

The screenshot displays the DataVat 'Animal Search' page. At the top, there's a navigation bar with 'Dashboard', 'Animal Search' (selected), 'Report & Tools', 'ABV Lists', and 'Coming Events'. The 'Animal Search' section includes filters for 'Bull' (selected) and 'Cow', 'ABV Release' (August 2019), 'Breed' (Jersey), and 'Date of Birth'. Below these are fields for 'ID' and 'Name'. A 'More filters' link is visible. The main area contains several ABV metrics: BPI, HWI, TWI, ASI, Daughter Fertility ABV, Cell Count ABV, Overall Type ABV, Feed Saved ABV, Survival ABV, Mammary System ABV, Milking Speed ABV, Temperament ABV, and Likability ABV. At the bottom right, a red box highlights the 'Active Status' dropdown menu, which is currently set to 'Active, Non-Active' and shows checkboxes for 'Active', 'Non-Active', and 'Restricted'.

3. ABV Reports have not yet been populated.
4. Depending on the timing of updates to the Genetic Codes for bulls, there may be slight differences from month to month between DataVat and Good Bulls App.
5. If you are logged in and cannot see information about your cows, contact DataGene for assistance.
Ph: 03 9032 7191 Email: datavathelp@datagene.com.au

Open access functions

Animal Search

(no login required)

1. Click on the 'Animal Search' tab.
2. Select Bull or Cow on the left of the search screen.
3. Enter the details of the animal(s) you want to search for.
4. Advanced search filters can be found in the 'More Filters' drop-down menu on the right of the search area.
5. You can use the 'Clear' button to clear all search filters.
6. Use the 'Search' button to search using the entered filters.
7. Results will be displayed below the search filters.
 - You can change the number of results displayed per page using the drop-down list on the top-right of the results list.
 - You can change the information shown in each column using the 'columns' drop-down list on the top-right of the results list. You can select/deselect which features you want to show.
 - You can view details of an animal by clicking the 'view/eye' button to the left of a results. This will open the animal details in the same tab.
8. To select animals for printing/export, click the check box to the right of each animal you wish to export. You can select all by clicking the check box at the top of the list, this only selects the results shown on that page, not all results in all pages of the search.
9. Results can be printed using the 'Print' button above the results. This can print 25 records at a time.
 - This opens a new window with print-preview enabled and the printer destination can be defined.
 - Results can be exported using the 'Export' Button above the results. Exported results are automatically downloaded as excel files and can be: ABV summary report, ABV detail report, Haplotype report, and Semen Fertility report.

The screenshot shows the DataVat Animal Search interface. The top navigation bar includes 'Dashboard', 'Animal Search' (highlighted with a red box and number 1), 'Report & Tools', 'ABV Lists', and 'Coming Events'. The main search area has a green header 'Animal Search' (numbered 3). Below this, there are search filters: 'Bull' or 'Cow' (numbered 2), 'ABV Release' (April 2020 ABV), 'Breed' (All breeds), 'Date of Birth' (From/To), 'ID' (National ID, International ID, Bull ID, I), and 'Name' (Long Name, Short Name, Common N) (numbered 4). A 'More filters' button (numbered 4) is also present. Below the filters are various ABV-related filters: BPI, HWI, TWI, ASI, Daughter Fertility ABV, Cell Count ABV, Overall Type ABV, Feed Saved ABV, Survival ABV, Mammary System ABV, Milking Speed ABV, Temperament ABV, Likability ABV, Genetic Codes including Polled, Genotyped, and Active Status (numbered 4). At the bottom of the filter section are 'Clear' (numbered 5) and 'Search' (numbered 6) buttons. The results section shows a table of animals with columns: ID, Bull ID, Name, Bull Owner, Birth Date, Sire, Dam, BPI, and Good bulls (numbered 7). Above the table are 'Export' (numbered 10) and 'Print' (numbered 9) buttons. A dropdown menu for 'Export' is open, showing options: 'ABV Summary Report', 'ABV Detail Report', 'Haplotype List', and 'Semen Fertility'. A 'Columns' dropdown (numbered 7) is also visible. The table contains 10 rows of animal data, including details like 'PROGENESIS PROCEED', 'STGSHAYDON', 'WESTCOAST ALMAMATER', 'PEAK FSCNTR ALTAGLOW-ET', 'SSI SCENARIO LORD', 'KAARMONA DIAMOND-ET', 'PROGENESIS POWERHOUSE', 'WESTCOAST RIVER', and 'SONDALO'.

Figure: Animal search on DataVat website

Search a Cow using Herd ID

1. New feature added for Cow search using herd ID. (no login required)
 - a. A user can add either herd/shire number or national herd ID on the below marked box to search only the cows belongs to a particular herd.
 - b. This helps with narrowing down the animal search. Also to see animals only in a herd.

The screenshot shows the DataVat Animal Search page. At the top, there's a navigation bar with 'Dashboard', 'Animal Search', 'Report & Tools', 'ABV Lists', and 'Coming Events'. Below this is a green header for 'Animal Search'. The main search area contains several filters: 'Bull' and 'Cow' radio buttons (with 'Cow' selected), 'ABV Release' (set to 'April 2020 ABV'), 'Breed' (set to 'Holstein'), 'Date of Birth' (with 'From' and 'To' date pickers), 'ID' (with a dropdown for 'National ID, Herdbook, Within Herd ID'), 'Name' (with a dropdown for 'Long Name, Short Name'), and 'Herd Owner/ ID/ Shire/ Book Number' (with 'Herd Owner' and 'Herd ID/ Shire/ Box' options). The 'Herd ID/ Shire/ Box' field is highlighted with a red rectangle. There are 'Clear' and 'Search' buttons at the bottom right.

Figure: Cow search using Herd ID

Haplotype reports

(no login required)

1. Mouse-over the Reports & Tools tab.
2. Select 'Haplotype Reports'.
3. Enter a breed, or Bull ID/Name/Herdbook number.
4. Click 'Search' to search for animals with the selected criteria.
5. Click 'Clear' to clear the previous search criteria.
6. Results will be displayed in a table below the search terms.
7. You can choose how many results to show, using the drop-down list in the top right above the results.
8. You can filter the columns using the drop-down column list in the top right of the results.
9. You can select results you which to export using the check boxes on the right, or to select all use the check box at the top.
10. Click 'Print' to print the selected results; this will open a new window to print preview. 25 records can be printed at a time.
11. Click 'Export' to export the selected results as an excel file, the download will start automatically. The results shown in the table on the screen will also be in the exported report.

The screenshot shows the DataVat Haplotype Report interface. The top navigation bar includes the DataVat logo, a 'Report & Tools' dropdown menu (callout 1,2), and links for 'Contact & Support' and 'Log in'. Below the navigation bar, the 'Haplotype Report' section contains a search area with a 'Breed' dropdown (set to 'All breeds'), a text input for 'Bull ID, Name or Herdbook Number' (callout 3), and 'Search' (callout 4) and 'Clear' (callout 5) buttons. Below the search area, there are 'Export' (callout 11) and 'Print' (callout 10) buttons, along with a status bar showing '10 results returned' and '0 record selected'. The main table displays a list of bulls with columns: National ID, Bull ID, Name, Breed, Bull Owner, Birth Date, HH1, HH2, HH3, BPI, and Daughter Fertility ABV. The first few rows of the table are visible, showing details for various Holstein bulls. A 'Columns' dropdown is located at the top right of the table. At the bottom right, there is a pagination control showing page 1 of 319.

	National ID	Bull ID	Name	Breed	Bull Owner	Birth Date	HH1	HH2	HH3	BPI	Daughter Fertility ABV
<input type="checkbox"/>	A00024485	29HO17747	COOCKIECUTTER HARPER	Holstein	ABS Australia	28/12/2013	✓	✓	✓	397	102
<input type="checkbox"/>	A00021852	14HO07328	COASTAL-VIEW MOOKIE	Holstein	World Wide Sires	22/11/2012	✓			394	105
<input type="checkbox"/>	A00038092	29HO17458	BOGHILL GLAMOUR PERSUADE	Holstein	ABS Australia	23/01/2018				392	115
<input type="checkbox"/>	A00031173	29HO18698	ABS JERONIMO-P-ET	Holstein	ABS Australia	06/03/2017				389	113
<input type="checkbox"/>	A00036370	29HO18863	DENOVO 14520 AMSTEL-ET	Holstein	ABS Australia	03/10/2017				388	113
<input type="checkbox"/>	A00035316	29HO17429	RELOUGH CLINCHER	Holstein	ABS Australia	19/04/2017				383	117
<input type="checkbox"/>	H02052184	ENDGAME	WINAVIEW SUPERHERO AVENGER	Holstein	Genetics Australia	19/09/2018				382	112
<input type="checkbox"/>	A00031483	07HO13696	SSI SCENARIO LORD	Holstein	Genetics Australia	30/04/2016				376	115
<input type="checkbox"/>	A00029246	0200HO10777	WESTCOAST PERSEUS	Holstein	Semex	05/12/2015				375	113
<input type="checkbox"/>	H02018418	SUPERDAVE	WARRAMONT SUPERHERO DAVE-ET	Holstein	Genetics Australia	17/10/2017		✓		374	106

Figure: View Haplotype Report

Genomic Value Tool

(no login required)

1. Mouse-over the Reports & Tools tab.
2. Select 'Genomic Value Tool'.
3. Enter values for each of the four fields: Heifer Calves, Calves to Keep, Replacement Rate %, Genomic cost.
4. To change values, click Clear to clear the entered data.
5. Click Submit to calculate the results.
6. Results are displayed below the criteria showing:
 - Net benefit
 - Total Benefit
 - A description of whether there is a financial gain from genotyping heifer calves

The screenshot shows the DataVat website interface. At the top, the DataVat logo is on the left, and 'Contact & Support' and 'Log in' links are on the right. Below the header is a navigation bar with 'Dashboard', 'Animal Search', 'Report & Tools' (highlighted with a red box and callout 1,2), 'ABV Lists', and 'Coming Events'. Below this is a green banner with the text 'Genomic Value Tool'. The main content area has a grey header with an introductory paragraph. Below this is a form with four input fields: 'Heifer Calves' (value 20), 'Calves to Keep' (value 6), 'Replacement Rate %' (value 20), and 'Genomic Cost' (value 50). The form is highlighted with a red box and callout 3. To the right of the form are two buttons: 'Submit' (highlighted with a red box and callout 5) and 'Clear' (highlighted with a red box and callout 4). Below the form is a 'Results' section with a red box and callout 6. The results show '\$123 Net Benefit (per selected heifer)' and '\$740 Total Benefit'. Below the results is a paragraph explaining the net benefit and the use of genomic testing.

Figure: Genomic Value Tool

Registration & login

Signup

1. Use sign Up button in the top right hand corner of the screen or contact DataGene, datavathelp@datagene.com.au

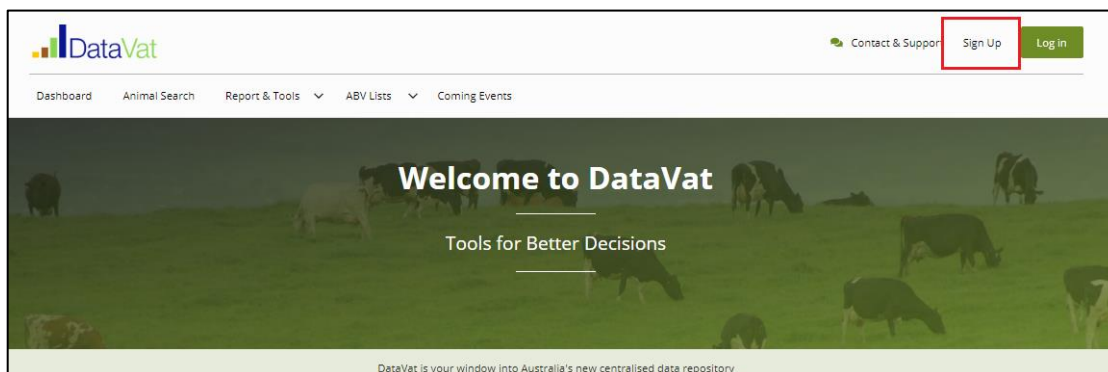


Figure: Signup Process

2. Sign Up button will direct to 'Register' form,
 1. Select either 'I'm a herd owner' or 'I'm a Service Provider'. Service Provider button is expected August 2020
 2. To submit the form, it is essential to fill out all important fields (marked with red star).
 - Note down the entered password for later use when login into DataVat account. The password is case sensitive.
 3. Tick 'Terms & Conditions' box
 4. Click on "Register" button

 A screenshot of the DataVat 'Register' form. The form is titled 'User Register' and includes two radio buttons for user type: 'I'm a herd owner' (selected) and 'I'm a service provider'. The form fields are organized into three columns. The first column contains 'Name' (First and Last), 'Mobile', and 'Email' (with a note 'Your email is also your user name'). The second column contains 'Landline'. The third column contains 'Street address', 'Town/Suburb', 'Country' (dropdown), 'Post Code', and 'State' (dropdown). There are 'Password' and 'Confirm Password' fields, both with a strength indicator. A checkbox for 'I've read and accept the Terms & Conditions' is located at the bottom left. The 'Register' button is at the bottom right. Numbered annotations are present: 1. points to the user type radio buttons; 2. points to the 'Name' and 'Email' fields; 3. points to the 'Terms & Conditions' checkbox; 4. points to the 'Register' button.

Figure: Registration Form

3. An email will be delivered to the email provided in the above form. Click on the link and confirm the email. (If it doesn't appear in your inbox, check your junk box).
4. After confirming the email, your DataVat account is ready to sign in.
5. Your username will be the email address you used to register. Use the same password provided at the registration step to login to DataVat.

6. Once logged in to DataVat for the first time go back and click the “Sign Up” button to complete the party subscription, where the “Party Subscription” form will appear to complete.
7. Then add either Shire/Herd number or National Herd ID to complete and connect the herd with DataVat account.

Figure: Connecting the Herd

8. Click on (+) plus green colour button to add the number and click on continue.
9. The next window will ask two questions about a certain animal to validate the herd. After completing this correctly will successfully connect the herd to the account automatically.

Figure: Validating the Herd

10. If this detail cannot be provided means connecting the herd manually by DataGene. In this case tick “I don’t know” to get the account activated manually which will send the approval process to be completed by DataGene.
11. Click the “Continue” green button after adding the details.
12. This will send an approval request to DataGene for review.
13. DataGene will review the request and approve/reject it accordingly. The requester will be advised of the outcome via email.
14. Once the request is approved by DataGene, your DataVat account is ready to access.

To login:

1. Go to the DataVat website.
2. Click 'Login' in the top right corner of the page

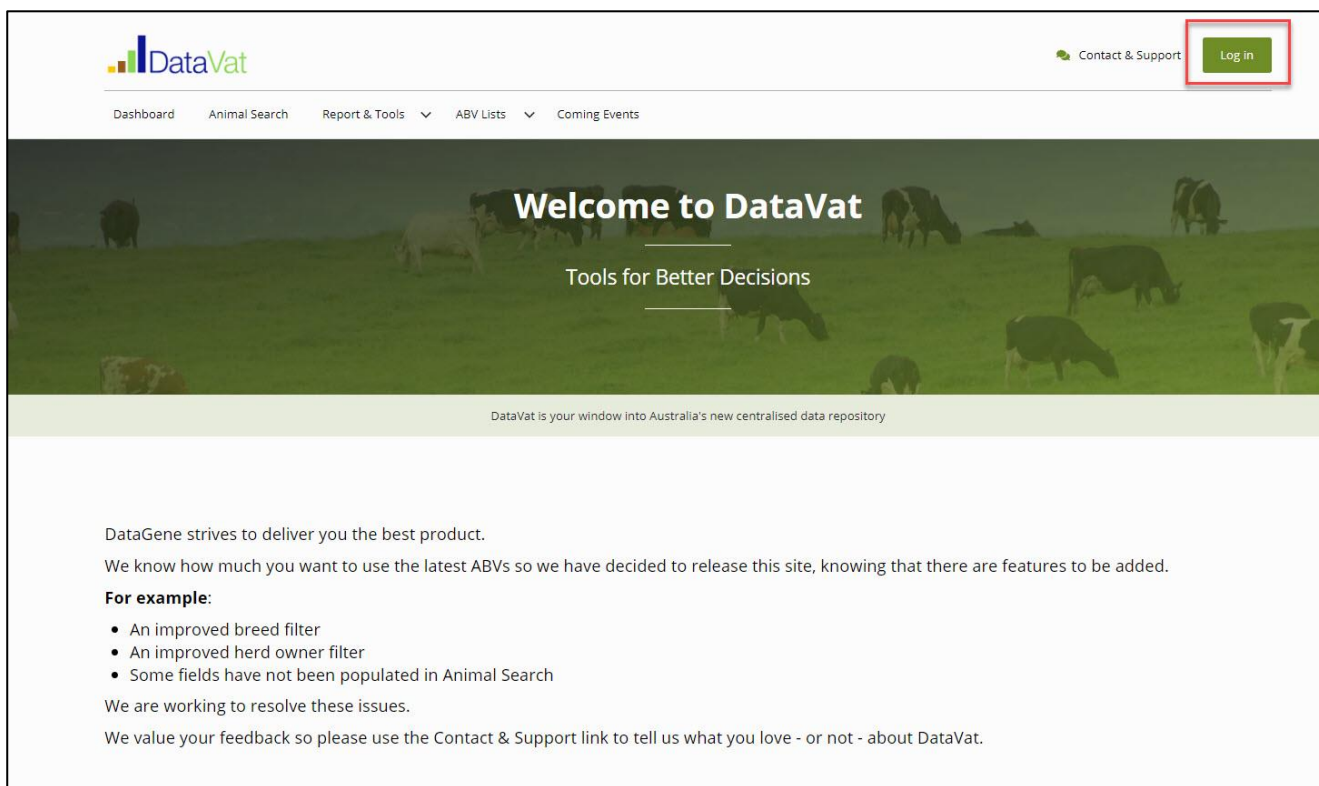


Figure: Login into the DataVat website

3. Enter your username and password and click 'Login'.

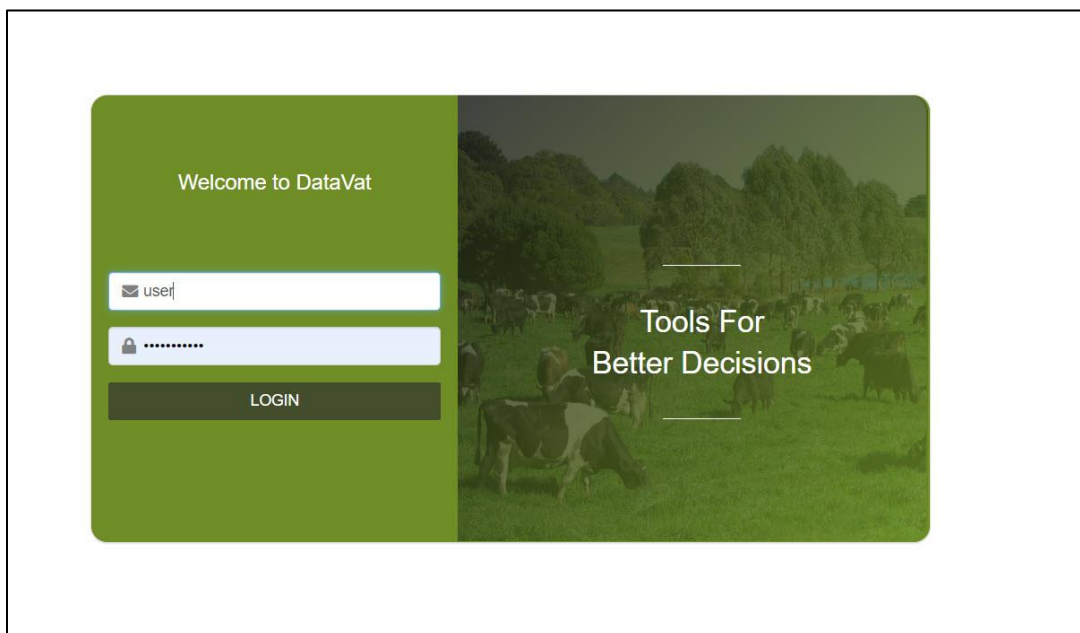


Figure: Login page

4. Select the account you want to log in as. Only accounts you are registered for can be logged in.

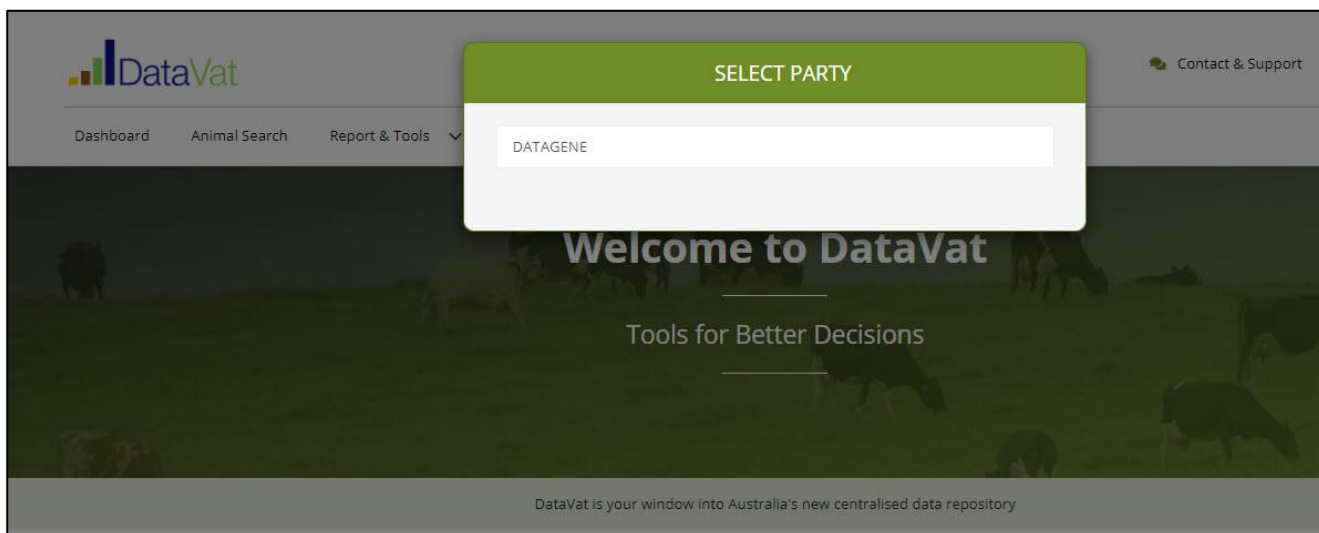


Figure: Selecting your account

To log out:

1. Mouse-over the logged in profile icon in the top right corner of the page. Select 'Sign out'.

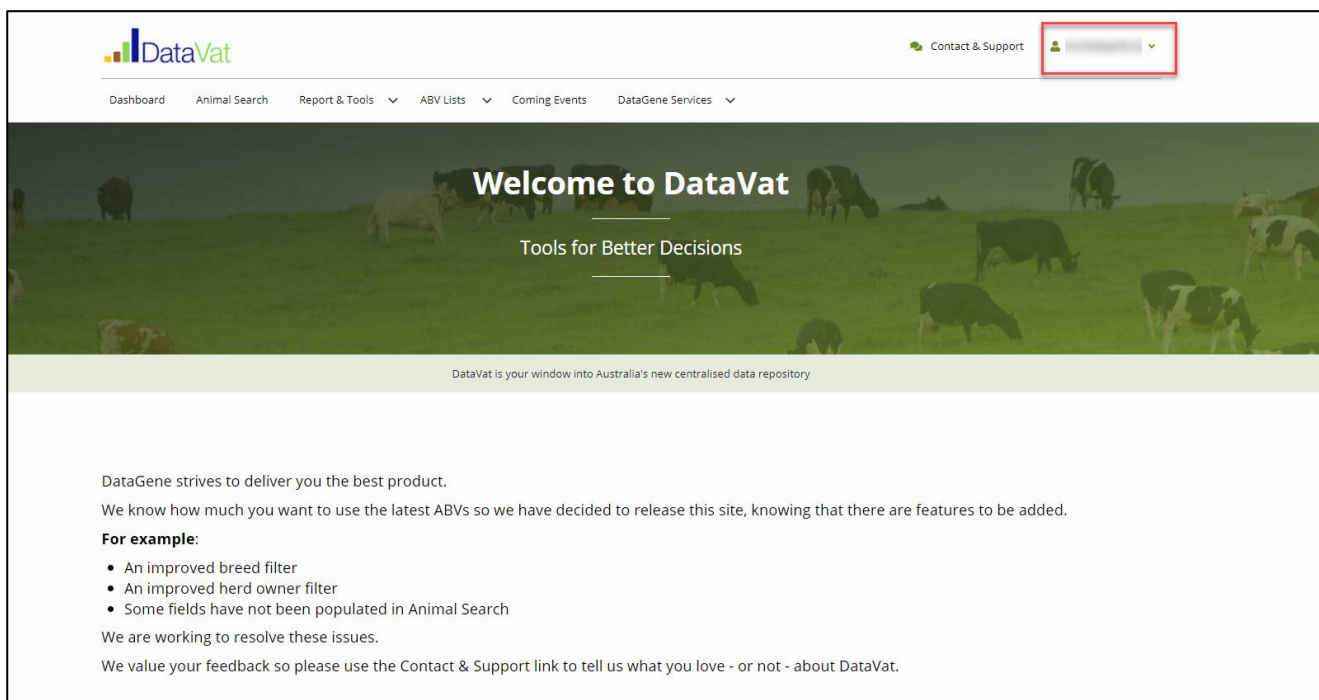


Figure: Logging out from the website

Authorising access for your team

Dairy farmers can authorise trusted third parties to have access to their farm's data/reports. These might be staff, vets, or service providers. The parties must have their own DataVat account to view authorised data. Follow these steps to authorise a third party to access your herd's data/reports.

1. Once logged in to DataVat account, click on 'Report & Tools' and then select 'Authorisation' from the drop-down menu.

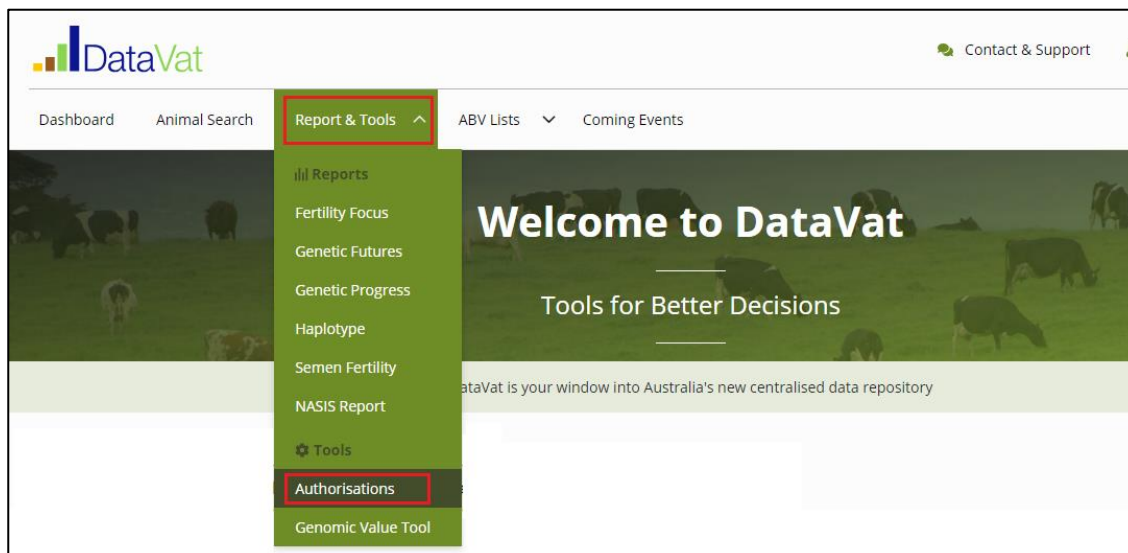


Figure: Finding Authorisation

2. In the authorisations window, two options will be presented: a) Add authorisation - a user can give authorisation to someone and b) Request authorisation: you can request authorisation from another party. This can be done using two buttons, 'Add Authorisation' or 'Request Authorisation'.
 1. Click on 'Add Authorisation' button which will direct to a pop-up window.
 2. Select herd ID for authorisation. All the herds under the account will automatically show up in 'Herd Shared'. Then add the email address for the receiver.
 3. There is an option for limiting the time frame for authorisation. DataVat users can either provide an expiry date for this authorisation or else give access without an expiry date. Choose a date from the calendar to provide an expiry date. OR Tick 'No Expiry Date' to give access for an unlimited time frame.
 4. Once details are provided click submit.

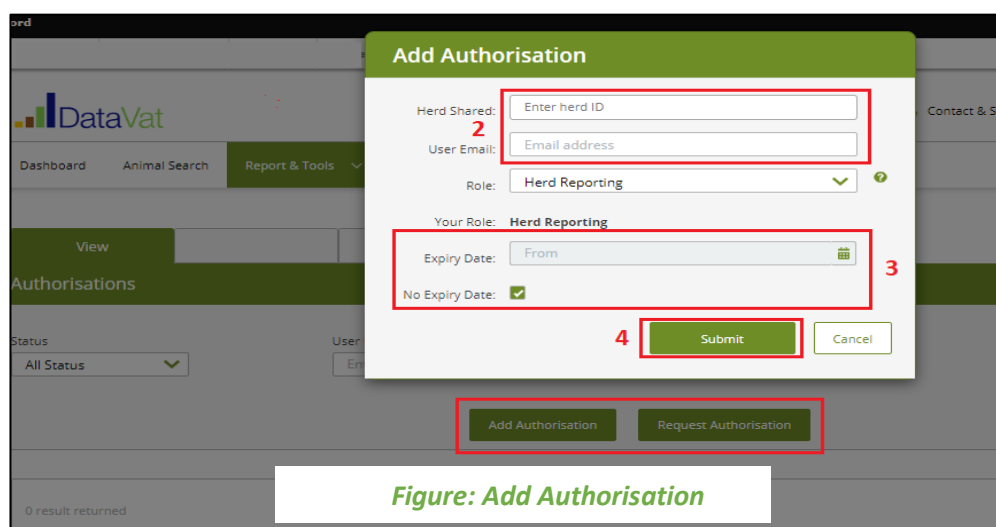


Figure: Add Authorisation

- Once the 'Add Authorisation' is submitted, an email will be sent to the email address provided.
- Once the receiver clicks on the link to confirm the request, the receiver will be redirected to DataVat and the below message will pop-up. The receiver has the choice to accept or reject.

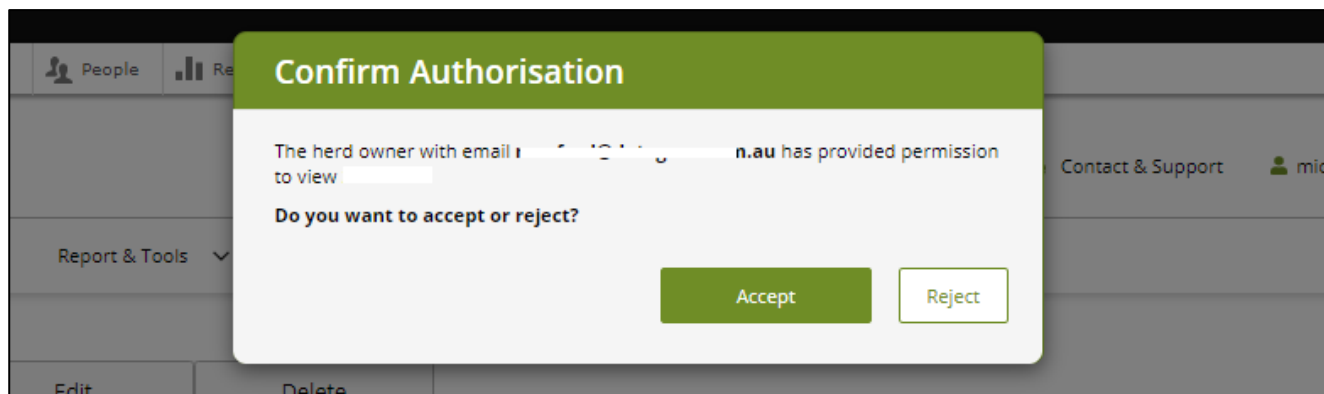


Figure: Confirm Authorisation

- The receiver can view authorisation history going back to 'Authorisations' under 'Reports & Tools'. It will show, Status, Expiry Date, Created Date, Accepted Date, and Action as marked on the below figure.

Authorisations

Status

All Status

User Email, Herd

Enter User Email, Herd

Search

Clear

Add Authorisation

Request Authorisation

1 results returned

10

Columns

Farmer Email	3rd Email	Herd	Status	Expiry Date	Created Date	Accepted Date	Action
.com.au	.com.au		ACCEPTED	25/05/2020 00:00	22/05/2020 13:22	22/05/2020 14:07	Remove

<

1

>

Figure: Authorisation History

Adding Multiple Herds

- DataVat provides the feature to add multiple herds to your account.
- This can be achieved using 'sign up' button on the top right of the account and quite similar to how you connect your herd into DataVat account.
- Repeat the steps from (6) under [Sign Up Section](#) above.

Genetic Progress Reports

(requires login)

1. Login to DataVat website.
2. Mouse-over the Reports & Tools tab.
3. Click on 'Genetic Progress Reports'. Select your herd from the drop-down menu and click "preview" to see the report underneath.
4. The report can be downloaded using "Download" button. This will automatically download the PDF report to the computer.
5. The report can be viewed and printed using "print" button. This will direct to the print preview window.

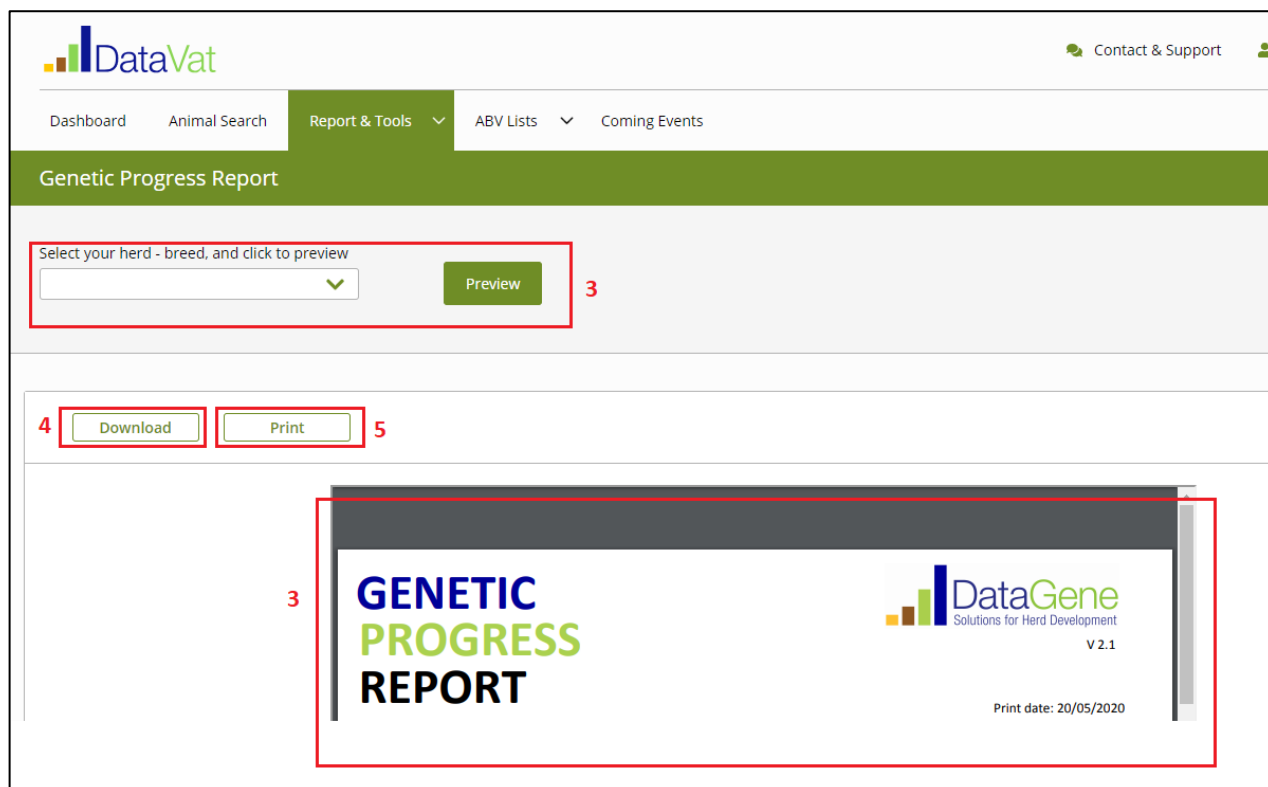


Figure: Genetic progress report

6. If you have access to many herds you will see their national herd IDs listed.

[More information about interpreting your Genetic Progress Report](#)

Genetic Futures Reports

(requires login)

1. Login to DataVat website.
2. Mouse-over the Reports & Tools tab.
3. Click on 'Genetic Futures Reports'.
4. Select the Herd/Breed that you want to generate the report for.
5. Click 'Generate Report'.
6. The report will be displayed below the selection as an interactive report.
7. Use the tabs at the bottom of the report to show: Genetic Snapshot, Predict Genetic Progress, Inbreeding information, and Data Details.
8. Mouse over the report and click on different areas to interact with the report and see progress for different traits.

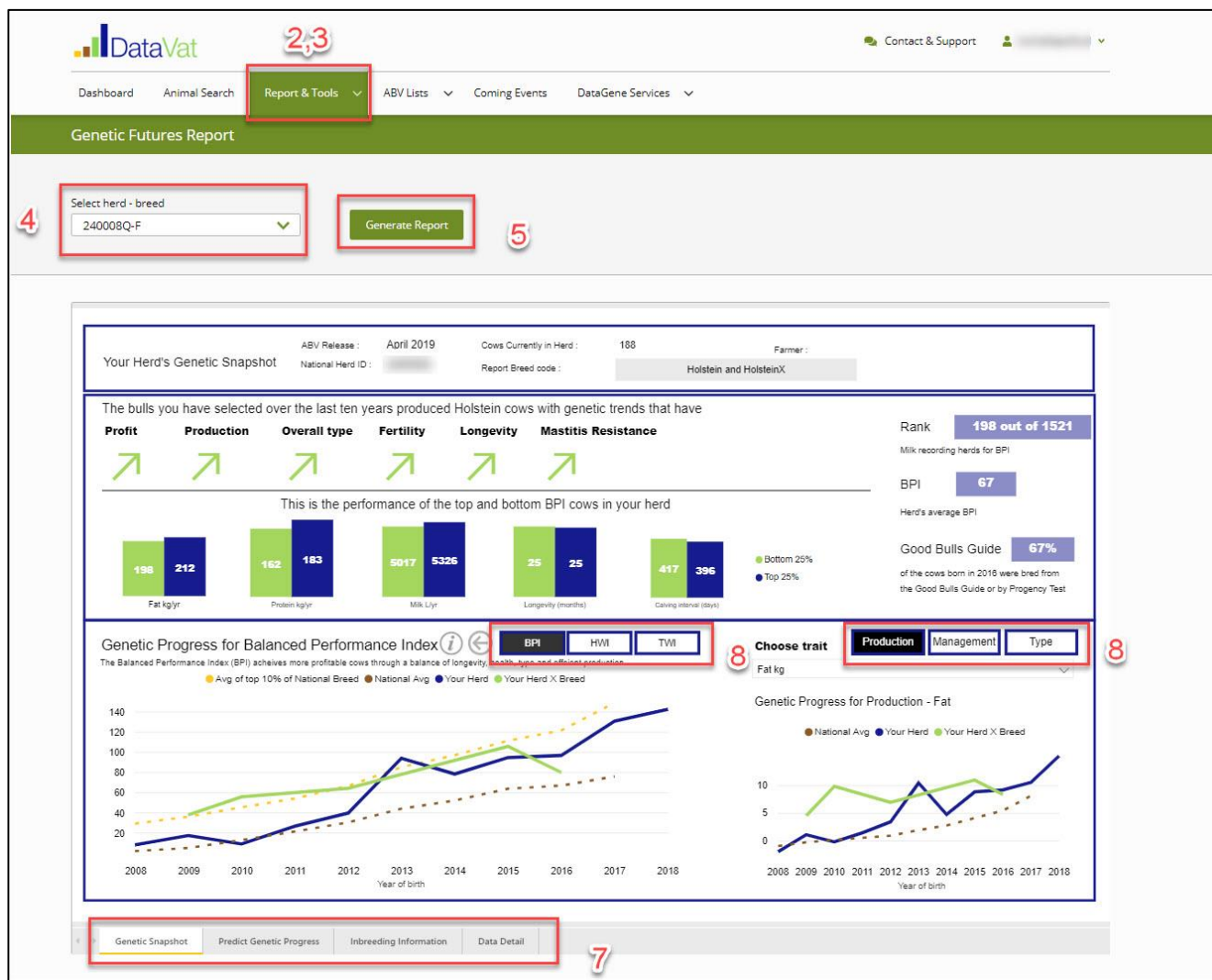


Figure: Genetic Futures Report