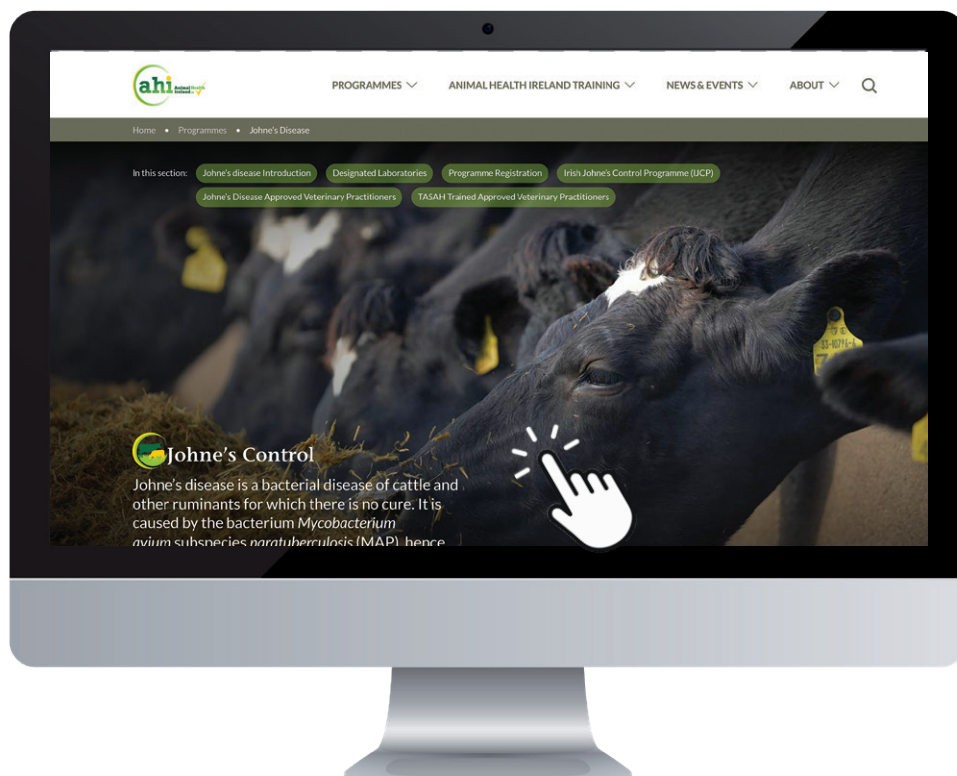


Your Herd Johne's Summary Report – Part 1 - What is it telling you?

Liam Doyle, Johne's disease Programme Manager

In 2022 the Herd Summary Report for Johne's was launched on ICBF. This 2-page report is available to all herds registered in the Irish Johne's Control Programme (IJCP), presenting a summary of annual herd testing outcomes, VRAMP scores, and animal introductions since registration. This report enables herdowners and AVPs to readily review at any time their herd's performance over the course of their participation, identify any outstanding requirements and also benchmark their VRAMP scores against other participating herds. These new displays of VRAMP scores and benchmarking have also been made available to the vet who carries out the yearly assessment to help refine advice given.

This is the first of two articles to show herdowners where they can access the Herd Summary Report and the type of information it contains. Remember also that your vet can be an invaluable source in helping you to evaluate the information in the report, allowing you to make more effective decisions about the management of your herd.



Where do I find my Herd Summary Report (HSR) (Accessing the AHI dashboards)

To access your HSR go to your Johne's homepage on ICBF. On the right hand side of the page under the heading **PLEASE CHOOSE ONE OF THESE OPTIONS** select **JOHNE'S HERD SUMMARY REPORT** at the bottom of the list (see Figure 1 below).

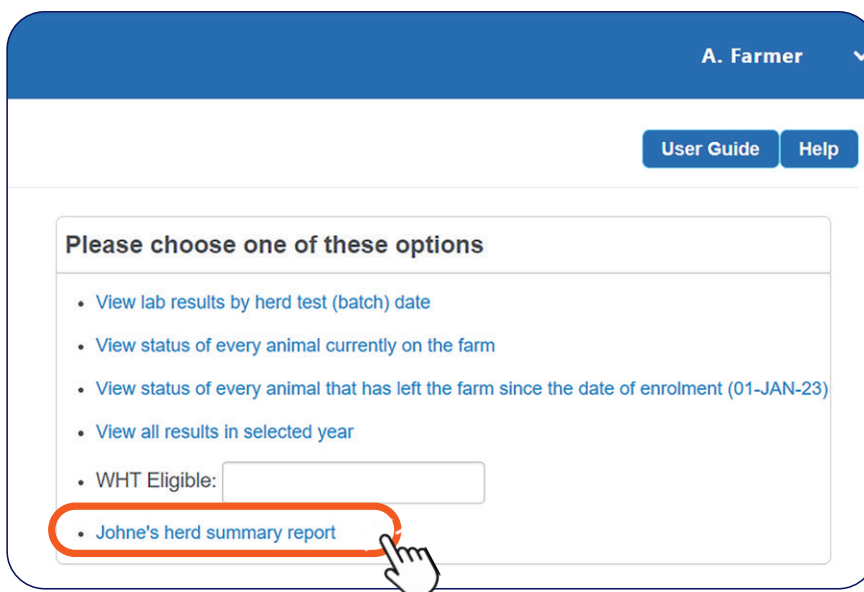


Figure 1. ICBF Johne's homepage with option of Johne's herd summary report highlighted in red.

When the option of **JOHNE'S HERD SUMMARY REPORT** is selected from the homepage the report is displayed. At the top of the page is an option (Figure 2) to download your report as a pdf, transferring it to a suitable format for printing.



Figure 2. HSR page with option to download the report in printable format (pdf) highlighted in red.

Figures 3 and 4 below shows the Johne's Herd Summary Report and the subsections it contains. In this bulletin for July and the bulletin for August we will look at the different parts of the report and what they mean. It is useful to know what the different parts of the report represent but in terms of the overall interpretation your veterinary practitioner is best placed to advise about how different aspects of it apply to your herd as they know your farm and how it operates.

Herd Johne's Summary Report

| 1. Herd details | Name | Address | Herd Number | Date of report |
|-----------------|-----------|--------------------|-------------|----------------|
| | A. Farmer | Main Street, Town. | A1234567 | 13/10/2021 |

2. Date of initial enrolment in the Irish Johne's Control Programme (or forerunner) - 20/07/2015

3. Johne's Herd Indicator¹ - to be inserted when available

| 4. Herd testing - number of animals | 2015 | 2016 | 2017/18 ² | 2019 | 2020 | 2021 |
|---|-----------------------|------|--|------|------|------|
| Whole herd testing: Completed/Partial/None³ | | | | C | C | C |
| ELISA test ⁴ | Tested | 157 | 167 | 195 | 375 | 387 |
| | Positive | 2 | 2 | 6 | 1 | 6 |
| | Inconclusive | 0 | 0 | 0 | 3 | 0 |
| | Negative | 155 | 165 | 189 | 371 | 381 |
| PCR/culture test | Positive ⁵ | 1 | 0 | 0 | 0 | 1 |
| | Negative ⁶ | 1 | 0 | 5 | 5 | 11 |
| Specified follow-up testing, not done ⁷ | | | | 0 | 0 | 0 |
| Still in herd, ancillary PCR required | 0 | | Still in herd, ELISA re-test recommended | 0 | | |

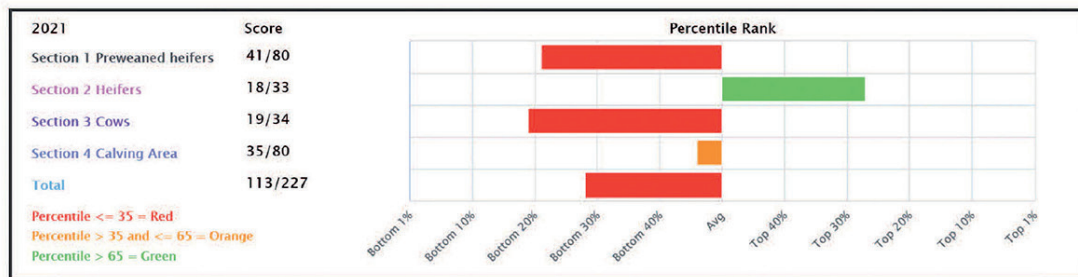
| 5. Apparent prevalence ⁸ | 2015 | 2016 | 2017/18 | 2019 | 2020 | 2021 |
|-------------------------------------|--------------|--------------|--------------|--------------|--------------|---------------|
| Whole herd | 2 / 157 = 1% | 2 / 167 = 1% | 6 / 195 = 3% | 4 / 375 = 1% | 6 / 387 = 2% | 12 / 438 = 3% |
| Animals aged 2 y.o. | 0 / 69 = 0% | 0 / 30 = 0% | 0 / 30 = 0% | 0 / 72 = 0% | 0 / 78 = 0% | 2 / 122 = 2% |
| Animals aged 3 y.o. | 1 / 46 = 2% | 0 / 56 = 0% | 1 / 31 = 3% | 3 / 163 = 2% | 0 / 68 = 0% | 2 / 69 = 3% |
| Animals aged 4 y.o. | 0 / 11 = 0% | 1 / 35 = 3% | 2 / 54 = 4% | 0 / 32 = 0% | 4 / 154 = 3% | 1 / 57 = 2% |
| Animals aged 5 y.o. | 0 / 14 = 0% | 0 / 22 = 0% | 2 / 36 = 6% | 0 / 22 = 0% | 1 / 28 = 4% | 4 / 119 = 3% |
| Animals aged >5 y.o. | 1 / 17 = 6% | 1 / 24 = 4% | 1 / 44 = 2% | 1 / 86 = 1% | 1 / 59 = 2% | 3 / 71 = 4% |

| 6. Inward movements of cattle | 2015 | 2016 | 2017/18 | 2019 | 2020 | 2021 |
|----------------------------------|------|------|---------|------|------|------|
| Total | 251 | 78 | 318 | 138 | 90 | 110 |
| Males | 7 | 2 | 3 | 6 | 3 | 3 |
| Females | 244 | 76 | 315 | 132 | 87 | 107 |
| Imported (non-IE) | 0 | 0 | 0 | 0 | 0 | 0 |
| No. of source herds ⁹ | 4 | 2 | 4 | 1 | 1 | 0 |

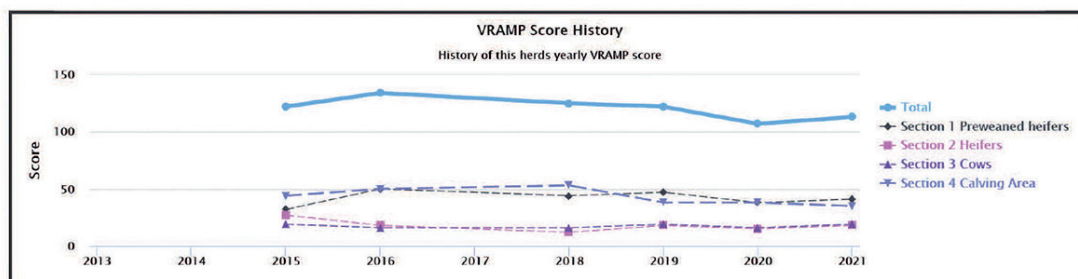
Figure 3. Page one of your Johne's Herd Summary Report showing sections 1 to 6.

7. VRAMP

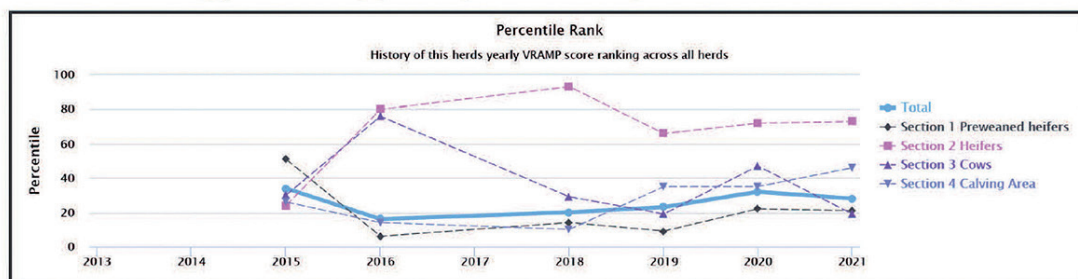
Most recent recorded scores and benchmarking (percentile ranking¹⁰):



Trend - scores: (Note: Lower score = better management and lower risk)



Trend - benchmarking (percentile rank): (Note: Higher rank = better performance relative to other herds)



8. Explanatory notes:

- Johne's Herd Indicator (JHI)** - A measure of a herd's relative level of risk of infection; currently under development.
- 2017/18** - As the programme did not formally operate for most of 2017, results for 2017 and 2018 are combined; some test results may be missing from the 2017/18 calculations.
- Whole herd test** - Completed = all eligible animals tested or exempted/Partial = Some but not all eligible animals tested or exempted/None = no herd testing this year.
- ELISA test** - Animals with a positive or inconclusive ELISA test result within 90 days after a TB test or 7 days after calving [milk test only], and subsequently have had a negative ELISA test result, are listed as Negative.
- PCR/culture test Positive** - Infection is confirmed in the herd, and the animal is very likely infected.
- PCR/culture test Negative** - Includes PCR test result of Inconclusive.
- Specified follow-up testing, not done** - Animals for which the ELISA result is Positive or Inconclusive in that programme year, and for which either a recommended ELISA re-test or an ancillary PCR test (required or not) has not yet been completed (except herd with known infection). These animals are considered to be infected.
- Apparent prevalence** - The number of animals with a positive or inconclusive ELISA test result as a fraction of the total number in the whole herd or age cohort; also shown as a percentage.
- No. of source herds** - Animals returning to own breeder herd not included.
- VRAMP percentile rank** - Herd's risk management in the most recently assessed year compared to all IJCP herds.

Figure 4. Page two of your Johne's Herd Summary Report showing sections 7 and 8.

What do the different sections of the Herd Summary Report mean?

Sections one and two give the herdowner information such as the herd number, date the report was generated and date of initial registration to the programme. Section three is the Johne's Herd Indicator (JHI), which is currently under development and is intended to return a herd's relative risk of infection. Development of a metric which assigns risk of infection to a herd is important in Johne's disease control as it provides a measure of progress over time and identifies herds from which lower risk purchases can be made.

2. Date of initial enrolment in the Irish Johne's Control Programme (or forerunner) - 20/07/2015

3. Johne's Herd Indicator¹ - to be inserted when available

| 4. Herd testing - number of animals | | 2015 | 2016 | 2017/18 ² | 2019 | 2020 | 2021 |
|---|-----------------------|------|------|--|------|------|------|
| Whole herd testing: Completed/Partial/None ³ | | | | | C | C | C |
| ELISA test ⁴ | Tested | 157 | 167 | 195 | 375 | 387 | 438 |
| | Positive | 2 | 2 | 6 | 1 | 6 | 9 |
| | Inconclusive | 0 | 0 | 0 | 3 | 0 | 3 |
| | Negative | 155 | 165 | 189 | 371 | 381 | 426 |
| PCR/culture test | Positive ⁵ | 1 | 0 | 0 | 0 | 0 | 1 |
| | Negative ⁶ | 1 | 0 | 5 | 5 | 6 | 11 |
| Specified follow-up testing, not done ⁷ | | | | | 0 | 0 | 0 |
| Still in herd, ancillary PCR required | | 0 | | Still in herd, ELISA re-test recommended | | 0 | |

Figure 5. Figure showing sections 2, 3 and 4 of the Johne's Herd Summary Report.

Section 4, shown in Figure 5 above is a summary of the testing carried out in the IJCP each year and the results of these tests. The first line of section 4 shows the years that a herd has been a member of the programme with any results prior to 2019 (Phase 2) summarised under the 2017/2018 column. The first line in section 4, ① **WHOLE HERD TESTING** gives information about the completion status of the herd test in a given programme year. The values which can be present in this section indicate if the herd test was completed (C), partially completed (P) or not started (N). The four rows below this are linked to the herd ② **ELISA TEST** (milk or blood), returning the number of animals tested and number of these ELISA tests which were positive, inconclusive or negative. In the section immediately below ELISA testing is information on the ③ **PCR/CULTURE** or ancillary testing. In herds where infection has not been proven by previous disclosure of a positive ancillary test, any animals positive or inconclusive (POSINC) ELISA results must be ancillary tested. This section informs the herdowner if any specified follow up testing (ancillary or ELISA) has not been done and if the animals concerned are still present in the herd, thus allowing action to be taken.

Next month we will look at the other sections of the herd summary report (Section 5 onwards) explaining the type of information being communicated and describing its relevance to Johne's disease control in your herd.