



Your Personalized Lifetime Performance Index (pLPI): A Tailored Approach to Genetic Selection

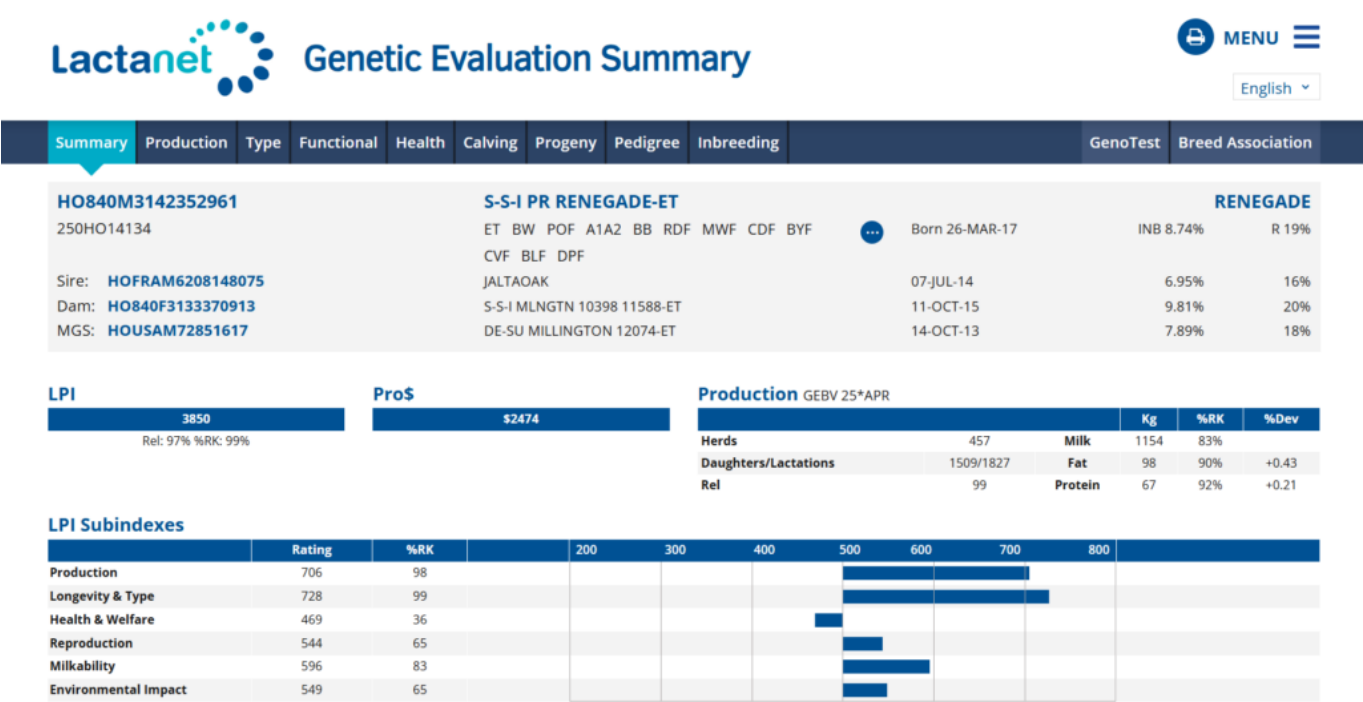
• April 4, 2025

The launch of Canada's modernized Lifetime Performance Index (LPI) on April 1, 2025, brings with it several updates to the LactanetGen.ca website. Such features include the opportunity to view histograms for each subindex and create your personalized LPI (pLPI) for one or more breeds. Your pLPI formula is created by modifying the percentage relative emphasis you desire on each subindex, namely Production (PI), Longevity & Type (LTI), Health & Welfare (HWI), Reproduction (RI), Milkability (MI), and Environmental Impact (EI; available only for the Holstein breed). The specific traits included in each subindex and their relative weights for the official LPI were selected in consultation with breed associations and the Genetic Evaluation Board to meet industry breeding objectives. If you wish, however, to take a more tailored approach geared toward your individual goals and priorities, follow the

three easy steps below to create your pLPI on the LactanetGen.ca website.

Viewing the LPI Subindexes

Modifications have been made to each animal’s Genetic Evaluation Summary page providing LactanetGen.ca users with histograms for each subindex, just like the Conformation and Functional trait sections. As a reminder, each LPI subindex is expressed on a standardized scale with an average of 500 and a standard deviation of 100. The histograms provide you with a quick reference to see the strengths and weaknesses of each animal helping you with selection and mating decisions.



prompting you to confirm your account.

Step 2: Create Your pLPI

Upon signing in, you will be automatically directed to your “Preferences” page to customize your viewing experience and create your pLPI. For each breed, the relative emphasis for each subindex in the official LPI is listed as well as boxes to the right to add your personalized emphasis for each subindex. If you entered a preferred breed in the upper section, then you will be provided the option to modify the subindex weights to create your pLPI for that same breed. You may create one pLPI for each breed of interest and the relative weightings must be whole numbers, adding to 100%. Click on “Add Another Breed” to meet your needs. To submit your pLPI relative weights, click “Save”.

Looking at the example below, this Holstein breeder would like to select for a herd that excels in all areas but with a more targeted focus on herd health and reproductive performance. As such, they have chosen to create a pLPI that puts more emphasis on the Health & Welfare and Reproduction subindexes, creating a pLPI with relative weights of 40% Production, 28% Longevity & Type, 10% Health & Welfare, 12% Reproduction, 5% Milkability, and 5% Environmental Impact.

General Preferences

Primary Breed Holstein

Preferred Selection Index LPI Pro\$

Genetic Evaluations Summary Page

Display descriptive type traits by default? Yes No

Display intermediate optimum type traits by scorecard section? Yes No

Save

Personalize the relative emphasis on each LPI subindex for the primary breed selected above or add an additional breed

Personalized Lifetime Performance Index (pLPI)

Add another breed --

	Official LPI	pLPI
Production	40%	40
Longevity & Type	32%	28
Health & Welfare	8%	10
Reproduction	10%	12
Milkability	5%	5
Environmental Impact	5%	5
Total		100%

Save

Step 3: View the Results

There are several ways to view your pLPI alongside the official LPI for each animal outlined below. The displayed pLPI values are on a similar scale as the official LPI but results are not directly comparable.

1. Animal Query

1. *Search by DHI Herd Number:*

A new search feature by DHI Herd Number is available on the Animal Query page for herds enrolled on any of Lactanet's milk recording services, including eDHI. First, navigate to your "Manage Profile" page and provide your DHI Herd Number and First DHI Test in the displayed month, if you didn't already do so when creating your profile. Next, on the Animal Query page in the DHI Herd Number section, select your desired breed and submit the search to view the active females in your DHI herd inventory, which also includes a column with their Visible ID. In addition to the regular traits, you will now see a "pLPI" column beside the official LPI for each female allowing you to compare the two values.

 **Query Results**

 **MENU** 

Hannah  English 

[Modify Query](#) [Refinement Filter](#) [Inbreeding Calculator](#) [Download to Excel](#)

Your search returned **489 results** sorted by *LPI*

Identification	Name	Visible ID	Birth Year	Act.	GS	LPI Code	LPI	pLPI	Pro\$	Milk	Fat	Prot	%F	%P	ME	FE	BMR	MR	SCS	Conf	MS	F&L	DS	RP
HOANF14653776	COLLEGE 5795	5795	2024	A		PA	3562	3535	2322	1168	108	60	+0.52	+0.16	104	100	95	102	102	5	3	6	3	3
HOANF14653758	COLLEGE 5777	5777	2024	A		PA	3560	3534	1930	721	44	37	+0.13	+0.09	104	98	99	108	106	8	7	7	1	5
HOANF14653781	COLLEGE 5800	5800	2024	A		PA	3549	3493	2015	931	87	50	+0.42	+0.14	98	105	99	100	100	10	8	5	7	4
HOANF14653782	COLLEGE 5801	5801	2024	A		PA	3549	3493	2015	931	87	50	+0.42	+0.14	98	105	99	100	100	10	8	5	7	4
HOANF14653699	COLLEGE 5718	5718	2024	A	G	PA	3540	3520	2120	408	85	47	+0.60	+0.27	98	100	101	103	103	5	2	8	2	4
HOANF14653730	COLLEGE 5749	5749	2024	A	G	PA	3540	3504	2086	429	79	40	+0.52	+0.19	100	103	101	103	102	5	2	9	1	3
HOANF14653792	COLLEGE 5811	5811	2024	A		PA	3533	3495	2137	1301	84	60	+0.27	+0.11	104	99	98	102	103	7	5	4	4	4
HOANF14653739	COLLEGE 5758	5758	2024	A	G	PA	3523	3492	2006	618	81	42	+0.48	+0.17	103	101	96	102	100	7	3	7	4	9
HOANF14653668	COLLEGE 5687	5687	2024	A	G	PA	3515	3504	1950	1047	45	38	+0.03	+0.03	98	103	96	111	109	9	11	2	4	-1

2. *Search by Name:*

Utilize the "Name" option to search males by "Short Name (Full or Partial)" or males and females by "Name (Full or Start)" and view the

pLPI for the list of all animals matching the query in question. When using this option to search females with a specific name prefix the resulting list includes the pLPI column as in the example below.

2. Group Query

Using the Group Query tool for either males or females, including the Advanced Search options, will provide a list of animals including the pLPI for each.

In all the above scenarios, the pLPI column will only appear if you are signed in and have modified the pLPI for the breed of the query. Most query result columns are sortable. If you wish, however, to sort via the pLPI column, you will need to click the option to “Download to Excel.” This option will create an editable excel file where you can filter and sort as you wish.

Summary

Lactanet is committed to providing you with a variety of tools to support your selection and mating decisions! With the modernized LPI launched on April 1, 2025, you may wish to make selection decisions based on the official LPI, individual subindexes via histograms, or create your pLPI to prioritize subindexes that are most important to your herd performance. Visit LactanetGen.ca and create your user profile to get started.

Partager





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