

Email Sent to Dr. Joseph Nyachiro, March 7, 2008 regarding the genetic history for Sundre Barley:

Hi Joseph -

I have a specific question for you about Sundre. Does it contain any genetic material from the International Centre for Agricultural Research In Dry Areas (I.C.A.R.D.A.)? If it does, this would explain its consistently good performance in dry areas and I should be promoting this great trait more aggressively.

Please reply at your convenience.

Thank you.

Bob Mastin

The following reply received from Dr. Joseph Nyachiro, March 11, 2008

Hello Bob:

Yes, Sundre has some genetic background material from ICARDA. The specific line that comes from ICARDA as **DL69** or **PI383854**. This line came to FCDC as an introduction in 1974 and was given a code **#174161**. The origin of **DL69**, before selection at ICARDA, was Punjab, India. Another hot-dry region.

Also Sundre has some genetic background of a cultivar called '**Hiproly**' that originated from Ethiopia. As you know most parts of Ethiopia are pretty dry and any cultivar that grew well in either Ethiopia or ICARDA region must be well-adapted to dry land conditions.

It is true Sundre has a combination of genes from diverse dry regions and was resected in a third dry land region (ICARDA) before shuttled to Canada.

Regards,

Joseph M. Nyachiro, PhD
Plant Breeder/Barley
Alberta Agriculture and Food
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