

Farm Mechanization FACTSHEET



**BRITISH
COLUMBIA**

Ministry of Agriculture, Food and Fisheries

Order No. 372.100-8

Agdex: 732-1

January 1984

NATURAL AIR GRAIN DRYING: MINIMUM AIRFLOW RATES FOR THE BC PEACE RIVER AREA

The table below is to be used to determine the required airflow rate for natural air drying of barley in the BC Peace River area. Use this table in conjunction with the Manitoba Agriculture publication entitled "Movement of Natural Air Through Grain". It corresponds with Table 2 on page 12.

The table is based on predictions made using weather data from 1961 to 1978. The "worst" and "2nd worst" years refer to those years during the 18-year period when weather conditions were the most unsuitable and second most unsuitable for natural air drying.

PREDICTED MINIMUM AIRFLOW REQUIREMENTS UNHEATED-AIR DRYING IN THE FORT ST. JOHN BC AREA						
BARLEY		<u>Initial Moisture Content, %</u>				
Harvest Date	Year	16	18	20	22	24
Airflow L/s·m ³						
August 15	2 nd Worst		10.0	20.0	40.0	
	Worst		10.0	23.6	40.0	
September 1	2 nd Worst		5.8	15.0	28.3	
	Worst		7.5	16.0	30.0	
September 15	2 nd Worst	4.0	5.2	10.0	21.2	40.0
	Worst	4.1	6.0	12.6	22.8	59.7
October 1	2 nd Worst		4.8	7.8	14.7	28.0
	Worst		5.7	10.0	15.5	31.4
October 15	2 nd Worst		5.0	7.6	10.8	
	Worst		5.4	8.5	12.5	

(Airflow rates below and to the left of the dashed line are generally in a reasonable range from the standpoint of fan size and power requirements).

FOR FURTHER INFORMATION, CONTACT

Bert van Dalfsen, Mechanization Engineer (Written by: J.F. Metzger, Senior Engineer)
Phone: (604) 556-3109
Email: Bert.vanDalfsen@gems4.gov.bc.ca

RESOURCE MANAGEMENT BRANCH

Ministry of Agriculture and Food
1767 Angus Campbell Road
Abbotsford, BC CANADA V3G 2M3