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TO:	GROCORP PACFIC	FROM:	PHILIP DUNN/ MURRAY CRUICKSHANK
ATTENTION:	ANDREW VAN WORKUM	DATE:	Friday, 7 June 1996
FAX NUMBER:	6.857 7184	PAGES:	TWO
SUBJECT:	CHINOOK WIND MACHINES		

Dear Andrew

Murray and I would like to thank you for your interest in the Chinook Wind Machines and the time you spend over the past month at the fan blade trials conducted at EEC Horticulture.

We are now able to send you the details of the results in a readable form along with the operating conditions and the procedures that were used.

An Airflow anemometer was used to record the speed of the air (in m/sec) produced by each blade (Chinook and OR) at a specific measured point. The readings were verified by people *independent* of those recording the information which was called out by the person holding the anemometer. The instrument that was used has a current Certificate of Calibration dated 26th March 1996.

Test #1: Present: Grant, Phil, Chris (EEC), Warren (Grocorp), and David Addis.
Blades: OR blade was on tower #1, Royal Gala, 10-12' high, heavy foliage.
Chinook blade was on tower #2, Braeburn, 8-10' high, light foliage.

Test #2: Present: Grant, Phil, Chris, Bruce (EEC), Andrew (Grocorp), and myself.
Blades: Chinook blade was on tower #1 Royal Gala, 10-12' high, heavy foliage.
OR blade was on tower #2, Braeburn, 8-10' high, light foliage.

TEST RESULTS:

TEST #1	BLADE	AV. WIND SPEED (m/sec)	HIGHEST READING
TOWER #1, ROYALS	OR	0.94 2.1 mph	1.17 2.62
TOWER #2, BRAEBURN	CHINOOK	2.24 5.0 mph	4.84 10.82
TEST #2			
TOWER #1, ROYALS	CHINOOK	1.16 2.59	4.93 11.02
TOWER #2, BRAEBURN	OR	0.755 1.69	4.50 10.06

From these results it can be seen the Chinook outperformed the OR blade by 74% in the Royals and close to 200% in the Braeburn. If we compare the results as they occurred on the day between the varieties, the Chinook outperformed the OR blade by 140% in test #1 and in test #2 by 54%. In every test and configuration, Chinook substantially outperformed OR in terms of the velocity of air moved, which directly translates to area covered.