

# OTTAWA-WINNIPEG HOP MADE INSIDE 3 HOURS JET CAN OUTFLY SOUND

The first all-Canadian jet fighter-bomber, specially designed to guard the vast reaches of the Arctic and the second biggest national territory on earth, has completed the longest non-stop jet flight yet performed in this country. Flying from Ottawa to Winnipeg, 1,100 miles, in two hours and 49 minutes, it demonstrated the speed with which an attack on this country can be intercepted.

## Faster Than Sound

The plane is the new CF-100, designed and manufactured by A. V. Roe Canada Ltd. at Malton. Details of its construction and performance are still secret, but it is known to be as long and as wide as the height of a five storey building. Though one of the most manoeuvrable planes made it is heavier than a Dakota transport plane, and can fly faster than sound.

On its Ottawa-Winnipeg dash the CF-100 was piloted by Sqdn. Ldr. Doug Biden of Moncton, N.B., with Cpl. D. L. Barkley of Ottawa aboard. Most jet fighters have a range of only 500 miles, but the new Canadian defender is built to travel up to 2,000 miles. Leaving Winnipeg today, the test plane will undergo cold weather tests at Namao, near Edmonton.

The RCAF squadron at North Bay is at present receiving the new fighter plane and with it devising revolutionary new air tactics to suit Canada's peculiar defence needs. The revolutionary new CF-100 Mk. IV, which has only recently gone into production, and is somewhat different in appearance from the earlier CF-100's, is designed for "lone wolf" sorties.

In its long nose is installed \$15,000 worth of radar gear which will sight and line up enemy aircraft and may actually automatically fire the guns the instant the enemy is squarely in the sights. Operating out of the main Arctic base at Southampton, an island in the far northern reaches of Hudson bay, its range of 2,000 miles will enable it to roam beyond the North Pole, while its greater-than-sound speed puts it beyond the reach of any potential enemy bomber.

In developing the all-Canadian jet

fighter Avro Canada worked in close conjunction with the RCAF, their object being to design a plane that would be most efficient in guarding the vast distances of a sparsely settled country. An enemy might be encountered anywhere between the North Pole and the Niagara frontier. Such a plane had to have long-range coupled with terrific speed to get it where needed in time. The CF-100 has both in greater measure than any other plane yet developed by any other country.

The plane also had to be capable of warming up and taking off quickly upon the spotting of an approaching enemy on the radar screen, regardless of the time of day or night or the condition of weather.

The RCAF wanted a plane that would also be able to get down to comparatively low speeds so, if needed, it could be used in tactical support. The CF-100 is thus the first of a new breed of big post-war fighters capable of carrying a considerable bomb load—and certainly a large enough load of atom bombs to be a formidable foe to the enemy.

When production reaches its peak work will be given to 30,000 Canadians, of whom only half will be employees of Avro Canada, the rest employees of companies making component parts.

A total of \$36,000,000 is being allocated to sub-contractors on the CF-100 airframe alone.