

Thermowhat? An explanation

- Thermograms are taken in fall or early spring from a specially equipped aircraft of the Ministry of Natural Resources. Under exacting conditions the aircraft flies a careful pattern over an urban area. These conditions include: clear skies, light winds, an outside temperature of 35 degrees Fahrenheit or below, heated buildings, and roofs free of ice, snow or water, which give altered readings.

- Because thermograms are based on radiated heat, the flights are conducted at night, after the heat gained by the sun during the day has dissipated.

- All objects with a temperature above absolute zero (-273 degrees Celsius) emit some amount of infra-red energy. A constant source of emission is thus available from both natural and man-made objects.

- On board the aircraft a Daedalus infra-red line

scanner is installed.

- Flying at 1,500 feet above ground, the equipment scans a path measuring 1,600 feet wide.

- The infra-red energy below the aircraft is "seen" by the detector, scanning at a rate of 80 sweeps per second. It produces a small electrical impulse which is amplified hundreds of times and recorded on magnetic tape.

- Gyroscopes couple the sensing equipment with the aircraft to automatically compensate for roll, pitch and yaw movements so that the magnetic tape records a continuous 'strip' picture of homes and buildings below.

- After the flight, the tape is processed to produce an image on film. The image, is in tones from white through grey and black, which outline levels of emitted energy; in this case the amount of heat being emitted from roofs of the buildings overflown. The darker the image, the less heat is being emitted.

20 minutes with analysts

Homeowners who want to have the thermogram of their home analyzed should expect to spend 20 minutes with Heat Save staff.

Owners should be ready with information about their houses, including the size in square feet and the types and amount of insulation in various areas of the house, such

as the basement, upper walls, and attics.

As part of the visit, homeowners can receive counselling on the insulation requirements throughout a house.

By comparing the thermogram with normal aerial photographs, an analyst can assess the heat loss from a home's attic, the insulation required, and the costs and savings.

Began 100 Years Ago

The National Gallery of Canada, celebrating its 100th anniversary in 1980, had its beginnings in the foundation of the Royal Canadian

Academy of Arts in 1880. The first curator was named in 1910. In 1913, the Gallery was incorporated by an Act of Parliament.

A recipe for living

Thank God for dirty dishes, they have a tale to tell.

While other folks go hungry, we are eating very well.

With home, health and happiness, we shouldn't want to fuss.

For by this stack of evidence, God has been very good to us.

"Author Unknown"



NOEL

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good cheer and
all the rest of the
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Season's Greetings

Christmas is the sound of bells, the laughter of children, the glow of candles and the scent of pine. Christmas is the joy of families and the happiness of friends. We hope your Christmas has love, warmth and laughter.



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