

JANUARY 2019

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Saturday

<p>Immune from Frostbite 30 Frostbite is a cold injury that occurs almost exclusively in humans and domestic animals. Moose, wolves, and polar bears are not susceptible to frostbite even while walking on snow or ice at -70°C.</p>	<p>Buy Cloudy ... Sell Sunny 31 In one large study of 26 stock markets around the world between 1982 and 1997, research showed that the annualized average return on perfectly sunny days was 25%, while the annualized average return on overcast days was only 9%. On average, markets tend to go down when the sky is grey and up on sunny days.</p>	<p>1999: Nine people died and 25 others were injured when an avalanche swept down on a New Year's celebration in an Inuit village. The avalanche crashed into a gym in Kangiqsualujuaq, QC, a coastal village 1,500 km north of Montreal on Ungava Bay. Villagers immediately began kicking and digging by hand through 3 m of snow in a frantic effort to free dozens of trapped people.</p> <p>New Year's Day</p>	<p>1872: The first synoptic telegraphic weather reports were received in Toronto from the Ontario towns of Kingston, Port Dover, and Port Stanley. From here they were forwarded to Washington, DC, beginning a daily exchange of weather information between Canada and the United States.</p>	<p>2000: In London, ON, a half-century weather record melted under a high of 11.7°C. It was so warm that some sap ran in maple trees—a full 7 weeks earlier than producers could recall from previous years. A winter butterfly emerged from its cocoon, startling residents.</p> <p>Perihelion 0:19 EST</p>	<p>2001: Canada's first snow-made hotel opened in Quebec City. The interior room temperature was around -5°C. One thousand tourists had signed up for a night in the frosty inn. Modelled after a similar attraction near Stockholm, Sweden, the hotel was built from 4,500 tonnes of snow and 250 tonnes of ice. It opened for 3 months before being left to melt in spring. The cost—\$165 a night—included a hot breakfast.</p>	<p>5 The Crime Prevention Association of Toronto observed an increase in crime with warmer weather and a drop in all categories of crime with snowier winters. It seems that even thugs don't like to steal Mercedes in cold weather.</p> <p>New Moon</p>
<p>6 QUIZ: Ulaanbaatar, Mongolia, has the coldest winter among national capitals. Where is the second coldest?</p> <ol style="list-style-type: none"> 1) Reykjavik, Iceland 2) Moscow, Russia 3) Ottawa, Canada 4) Astana, Kazakhstan 5) Helsinki, Finland <p>(Answer on inside back cover) Epiphany</p>	<p>7 1998: Canada's most destructive weather event was in its 3rd day. Ice Storm '98 was monstrous: 70 to 110 mm of freezing precipitation and 80 hours of ice rain, nearly double the normal annual duration. Its wide geographic coverage—from Ontario to New Brunswick—was extreme. About 900,000 Quebec households and 100,000 Ontario homes had no power. Property damage costs and business losses exceeded \$5 billion.</p>	<p>8 2003: In Calgary, AB, the temperature was 9.3°C but snow arrived around 11 a.m.—a truckload of snow from Lake Louise. Mountain resorts organized the publicity stunt to prove to city skiers and snowboarders that there was still snow in "them there mountains." At Sundre, AB, the ice-carved polar bears were beginning to look a bit like anteaters as they melted.</p>	<p>9 2006: In Winnipeg, MB, officials couldn't recall more open water on the Red and Assiniboine Rivers in mid-January in 35 years. Instead the publicity stunt to prove to city skiers and snowboarders that there was still snow in "them there mountains." At Sundre, AB, the ice-carved polar bears were beginning to look a bit like anteaters as they melted.</p>	<p>10 2007: Saskatoon, SK, was brought to a virtual halt by one of its worst blizzards in 50 years. The wind chill reached -46 and 90 km/h winds blew more than 25 cm of snow into over 1-m-high drifts. Abandoned vehicles littered the city. City buses struggled through drifts and whiteout conditions, and mail service was terminated. Highways from Lloydminster through Yorkton were closed.</p>	<p>11 2014: Moisture from rain, freezing rain, snow thrown by snow blowers, and temperatures varying by more than 25°C affected the coin slots of parking meters in Charlottetown, PE, causing the electronics to malfunction. More than ¼ of all meters had ice problems. Vehicles parked at iced-up meters were not ticketed. The City began taking the meters away to dry them out.</p>	<p>12 The dissolution of the Soviet Union, formerly the second-coldest country, enabled the Russian Federation to move ahead of Canada as the world's coldest country. Russia's average temperature year-round is -5.3°C; Canada is second at -3.6°C; and Mongolia a distant third at -0.7°C.</p>
<p>13 QUIZ: What province is a member of the "60 below club?"</p> <ol style="list-style-type: none"> 1) Saskatchewan 2) British Columbia 3) Manitoba 4) Newfoundland and Labrador 5) Alberta <p>(Answer on inside back cover)</p>	<p>14 1957: Seven men died when a pilot boat sank in the Bay of Fundy, NB, close to Partridge Island. Thick white mist or "frost vapour" enveloped the boat in -30°C temperatures, blinding the crew to the approaching 8,500-tonne freighter <i>Fort Avalon</i>. The freighter sliced it in two and the icy waters claimed the men before rescue could begin. The boat was found at the bottom of the bay 2 years later.</p> <p>First Quarter</p>	<p>15 2006: Kennebecasis River (NB) ice fishers pulled their shacks off the ice due to mild weather and heavy rain, ending their chance to cash in on a big smelt run. In 1 day, the ice shrank by 10 cm. Some shacks fell through the ice; 2 floated away but a few were saved using canoes, trucks, and ATVs. Spring weight restrictions for trucks in Nova Scotia and Prince Edward Island went into effect.</p>	<p>16 1982: A week-long cold spell that had taken the lives of more than 260 people in the United States continued to hold Ontario in its icy grip. A snowstorm near London, ON, left 2 candidates for the Ontario NDP leadership campaign temporarily stranded after their car's accelerator pedal froze.</p>	<p>17 1994: Blinded by blowing snow, a woman drove her small car into the back of a transport-trailer east of Edmonton, AB. The unsuspecting transport driver drove off with the vehicle stuck beneath the tanker. For 30 minutes, the coupled vehicles stayed together despite frantic attempts by the woman to break free. Blowing snow kept other drivers from noticing. The truck driver stopped after he heard the car's tires exploding. The woman suffered only a broken ankle.</p>	<p>18 1977: The Arctic cold reached all the way to Florida. People who had fled to Miami and Palm Beach watched in horror as big wet snowflakes floated down from the sky. To the north, 7,000 km away in Whitehorse, YK, people were outside in their shirtsleeves in 9°C temperatures. Hockey games were cancelled because of lack of ice, and bears, thoroughly confused by the unaccustomed warmth, came out of hibernation.</p>	<p>19 An unexpected cold snap with near-freezing temperatures south of Miami, FL, in early January 2017 sent heat-hungry iguanas dropping from tree branches like autumn leaves. At temperatures below 5°C, they become completely immobile and were unable to hold on. After warming in the sun, most iguanas revive and scamper into the bushes.</p>

Quiz: If the outside temperature is above 0°C, but the wind chill is -10°C, how long will it take to freeze the pipes outside your house?

20

- 1) 10 minutes
- 2) about an hour
- 3) depends on the depth of the pipes but within 3 hours
- 4) 30 minutes
- 5) they won't freeze

(Answer on inside back cover)

2010: Two alleged members of an international organized crime syndicate were found shivering at the side of a Manitoba highway after sneaking into Canada. The fugitives were walking to Winnipeg, MB. RCMP found the pair near the Canada-US border, crossing with relatives, including 4 children. All residents of Guatemala, they were underdressed and relieved to be picked up.

21

Full Moon

1857: Brutally cold weather throughout the Great Lakes area made railway locomotives useless and railway workers suffer severe frostbite. In St. Mary's, ON, a woman froze to death while riding from Stratford to North Easthope in an ox sleigh. Her husband, who was driving the sleigh, was not aware of the sad occurrence until they arrived home and he lifted his wife from the sleigh as a frozen corpse.

22

2000: A bizarre result of the severe winter storm that struck the Maritimes 2 days ago was the discovery that 2 cottages at Tatamagouche Bay, NS, had been lifted from their foundations, turned around, and deposited hundreds of metres down the beach. One cottage owner said, "We had bottles on a shelf over the kitchen cabinets. None of the bottles had fallen off the shelf. They were still sitting there."

23

1908: In Manitoba, Winnipeggers played tennis on snow-free courts, minus mitts and coats. Earlier that week, it was nearly 6°C. Buggies, not cutters, jogged along prairie roads; farmers fixed barbed-wire fences with bare hands and worried about dust storms; and workers laid the last rails on the CNR line to The Pas. In Fort William, ON, Doukhobors paraded in the nude, without being frostbitten.

24

1875: The NWMP's commanding officer at Swan River, MB, requested a supply of reliable thermometers for the barrack rooms, reasoning that, "When the men go to bed I think they should know if it is cold enough to freeze their ears if left exposed, as was the case with Sub-Constable McCrum."

25

About 3% of the Canadian population have Seasonal Affective Disorder. Another 15% have the milder form of winter blues.

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QUIZ: Expressions of wind chill temperature are issued regularly by only a few national weather services. Which country does not issue a wind chill forecast?

27

- 1) United States
- 2) Finland
- 3) Russia
- 4) Great Britain
- 5) Canada

(Answer on inside back cover)
Last Quarter

1878: The ship *City of Boston* sailed from Halifax, NS, and disappeared during a storm with 191 passengers aboard.

28

2000: A man was sitting in his home at Barr Haven near Ottawa, ON, when something hit his roof with a loud bang. The next day he found a basketball-shaped ice ball outside the dining room window. It weighed about 5 kg. Embedded in it were tiny shingle stones and tar. The ice likely dropped when an airplane lowered its gear to prepare for a landing at the nearby Ottawa International Airport.

29

1893: From a diary of a Vancouver, BC, resident: "It was certainly cold ... business was practically suspended except for the plumbers because pipes were bursting everywhere. There was a shortage of coal and other fuel, and many people suffered severely since most of the houses were not built for such weather. The Fraser River was frozen over solid to its mouth."

30

2008: An ice storm snapped power poles like twigs, leaving Prince Edward Island without power. Troops stood by at CFB Gagetown, NB. At one point, 95% of hydro customers were without power and a third had no power for several days; 10 emergency shelters were set up. A helicopter borrowed from New Brunswick was grounded for 2 days. Library patrons were not charged overdue fees, however.

31

Hello 911 ... What's the Weather?
In January 2012, a man from southwestern Ontario called 911 to complain about a weather report he just heard on a local radio station. They reported light flurries when in fact he was driving in a snowstorm. Police warned him not to call 911 for the weather.

1

Canada's Coldest Wind Chill!
The coldest wind chill on record in Canada occurred at Kugaaruk, NU, on January 13, 1975. On that day the air temperature was -51°C, and the winds were 56 km/h, producing a bone-chilling wind chill of -78.

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FEBRUARY 2019

Sunday

Monday

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Saturday

<p>Peeing More in the Cold 27</p> <p>Have you noticed a greater urge to urinate in cold weather? Exposure to cold causes blood vessels near the skin to constrict, which ups the blood pressure. Sensing that, the body tries to get rid of excess water.</p>	<p>Snowiest Day 28</p> <p>The climatological station report from Tahtsa Lake West, BC, indicates a 1-day snowfall of 145 cm on February 11, 1999. Even more remarkable was a Canadian daily snowfall record that stood for a few years in the 1960s. Livingstone Ranger Station in Alberta recorded about 114 cm of snow on one day in 1963—on the 29th of JUNE!</p>	<p>Canadians the Sixth Happiest People on Earth 29</p> <p>The United Nations World Happiness Report confirmed that Danes are the happiest people on Earth in a study of 156 countries. Said one Danish social worker: "And if we do worry, it's about the weather."</p>	<p>Canadian Weather Groundhogs 30</p> <p>Warton Willie and son, Wee Willie (Ontario) Watson Willow (Saskatchewan) Madoc Mike (Ontario) Fred la marmotte (Quebec) Shubenacadie Sam (Nova Scotia)</p>	<p>More Canadian Weather Groundhogs 31</p> <p>Balzac Billie (Alberta) Brandon Bob (Manitoba) Johnny Woodchuck (Winnipeg, 1938) Manitoba Merv (Manitoba) Gary the Groundhog (Kleinburg, ON)</p>	<p>1999: A thin layer of ice formed on Winnipeg streets, leading to dozens of car accidents in the Manitoba capital. The injured, including those with concussions and fractures, had to wait a long time for paramedics—several of whom were nursing their own injuries. Even a weatherman was late for work, taking 55 minutes instead of the usual 15. Manitoba Public Insurance processed 850 claims over 8 hours—the busiest day of the winter.</p>	<p>2</p> <p>Thirty-six per cent of Canada's precipitation falls as snow, compared with 5% of world precipitation overall. A quarter of the Earth's land surface gets snowed on every year including half of North America, and a fifth of the world's land surface has snow cover throughout the year.</p> <p>Groundhog Day</p>
<p>QUIZ: What weather condition was judged to be the most romantic? 3</p> <p>1) light rain 2) thunder and lightning 3) snowstorm 4) heat wave 5) deep freeze</p> <p>(Answer on inside back cover)</p>	<p>1989: Temperatures in Regina, SK, stayed below the -30°C mark and were accompanied by a biting wind. Exposed skin froze in less than a minute. Canada Post appealed to homeowners to "warm up a postie." Many residents put signs on their mailboxes to notify carriers that they could come inside for coffee. Still, the appeal was not enough to prevent several cases of frostbite.</p> <p>4</p>	<p>1911: Inspector Fitzgerald of the Royal Northwest Mounted Police "lost patrol" wrote what was to be his final diary entry: "Can only go a few miles a day." Plagued for weeks by snowstorms, high winds, and frequent -40°C to -50°C temperatures, the patrol lost its way between Fort McPherson, NT, and Dawson, YT. Its 4 members perished about a week later.</p> <p>5</p>	<p>2001: New Brunswick students of all ages are convinced that if you wear your pyjamas inside-out on the night of a storm, enough snow will fall to close schools the next day. For some youngsters, it's worked 4 times this winter. Some kids even wear their pyjamas backwards as well, just to increase the odds of having a snow day.</p> <p>6</p>	<p>1920: The hardest cold in 35 years created heavy ice along Newfoundland's northeast coast. The <i>Prospero</i> was ice jammed for 5 weeks, 10 km from Fogo, short of food and with no help from land due to bad weather. Nearby, 2 other steamers were stuck for 4 weeks, almost submerged by ice at times. Inland, blocked railways left settlements and lumber camps facing famine and horses suffering greatly.</p> <p>7</p>	<p>2005: Southern Ontario and Quebec had endured an unprecedented 8-day smog advisory. An "inversion layer" kept pollutants trapped at street level. People with respiratory or heart disease were most at risk, and pollution levels were highest in the morning as children went to school. The air was still, with no precipitation to cleanse it. It was like putting southern Ontario into the SkyDome.</p> <p>8</p>	<p>9</p> <p>Moscow's mayor declared that snow should be banished from the Russian capital in order to save money and improve life in the city. Apparently, cloud seeding was cheaper than snow ploughing. His idea provoked panic among residents in outlying regions, who worried they would be flooded out of their homes.</p>
<p>QUIZ: In Newfoundland, a growler is: 10</p> <p>1) a small iceberg 2) a moose in heat 3) a boss with a short temper 4) an empty cod net 5) a strong gust of wind</p> <p>(Answer on inside back cover)</p>	<p>2004: In Ottawa, the cold wind made it feel like -22°C. Early in the morning an elderly woman slipped on some black ice and broke her shoulder and elbow. Fortunately, Gracie, a beagle pup, was out for her walk and pulled her puzzled owner along an unfamiliar route across the street. There they found the woman lying motionless on her driveway. She spent 5 days in the hospital.</p> <p>11</p>	<p>1911: A fierce gale near Victoria, BC, with wind gusts exceeding 100 km/h, drove huge waves against the shore of Ross Bay, washing out gravesites and carrying coffins out to sea. The cemetery caretaker frantically dug up exposed coffins and moved them to a secure location. Among them were the remains of smallpox victims. No one was willing to help him dig up the coffins.</p> <p>12</p>	<p>1988: The Winter Olympics opened at Calgary, AB, under partially sunny skies, a temperature of -4.9°C, and winds gusting to 74 km/h. Above-normal winds and temperatures were the main weather story of the games.</p> <p>13</p>	<p>2012: This winter just 5% of the Great Lakes were ice-covered. The Great Lakes basin experienced its second-warmest winter in 66 years. During the winter of 2005–2006, there had been even less ice. Typically, during the second week in February, the Great Lakes are around 30% ice-covered.</p> <p>14</p>	<p>2010: After the warmest January on record in Vancouver, BC, 2010 Olympic workers hauled snow from elsewhere in the province to Cypress Bowl, site of the snowboard events. Beset by rainy spring-like weather, they worked around the clock to groom the skiing venue. The next day, heavy rain and warmth washed away most of the snow in the fenced-off area for standing room at the snowboard cross-site.</p> <p>15</p>	<p>16</p> <p>The <i>Farmer's Almanac</i> has a 73% accuracy rate in the <i>Almanac's</i> weather forecasts, according to them.</p>

QUIZ: What is meant by a tropical night? When the night temperature never drops below:

17

- 1) 18°C
- 2) 20°
- 3) 25°
- 4) 28°
- 5) when the spread between night and day temperatures is less than 10°C

(Answer on inside back cover)

1946: Showers of grubs descended in snowstorms, creating a curious sight in St. John's, NF. The grubs, which feed on other insects, were black and about 20 mm long and 3 mm thick. Scientists sent the specimens to the agricultural station in Ottawa for further testing.

18

Civic Holiday

1979: More than 200,000 people attended Ottawa's inaugural Winterlude in spite of the record cold. Leather facemasks and balaclavas were fashionable at the 13th Canadian Ski Marathon in Gatineau, QC—its coldest outing to date. Fifteen hundred skiers suffered frostbite or hypothermia. Of 3,723 skiers on the 2-day 160-km race, only 86 finished.

19

Full Moon

1999: Weeks of see-sawing temperatures and unusually high rainfall challenged organizers of Canada's Winter Games in Corner Brook, NF, to make or find snow and ice for 5 outdoor sports. The local fish plant could provide up to 30 tonnes of snow a day if necessary. Also, more than 100 army reservists were on hand to move snow from nearby wooded areas.

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2001: Near Elie, MB, you couldn't see a metre in front of your face because of whiteout conditions. At 8 p.m. there were more than 50 cars holed up in a gas station. The station's owner put 30 groups up for the night in his home and at his mom's place. They crashed on beds, couches, and on the floor. The manager set up 50 chairs among the store aisles so motorists would have someplace to sit.

21

2004: After 87 hours and 10 minutes, an attempt by Canadian soldiers in Edmonton, AB, to break the Guinness world record for the longest hockey game was abandoned when the ice melted. Several days of sun and mild temperatures had made the outdoor ice soft and "dangerous." Players were tripping and falling. An attempt to refreeze areas with dry ice failed. Final score: Black 1,186 — Red 951.

22

Yukon Heritage Day

Antarctica boasts the largest desert in the world with about 127 mm of precipitation a year, just slightly more than the Sahara. However, Antarctica has the worst blizzards because wind speeds regularly reach 193 km/h.

23

QUIZ: Which famous Canadian personality trained as a meteorologist and was posted for a year at a weather station on Sable Island before quitting?

24

- 1) film producer Norman Campbell
- 2) Preston Manning
- 3) Ron MacLean
- 4) David Suzuki
- 5) Marc Garneau

(Answer on inside back cover)

1905: In Donaldson, PE, a farmer had to dig a 20-m tunnel to reach livestock trapped in the barn by heavy snowfall.

25

Civic Holiday

1914: A blustery, twisting wind from the south and west struck Claresholm, AB, causing extensive damage. Buggies, wagons, and cars were blown for hundreds of metres. The greatest damage was to the curling rink, and to the curlers. It was bad enough that the rink was just about paid for, but the idea that there would be no more curling caused curlers to go into mourning.

26

Last Quarter

1997: Several avalanches occurred in the Rocky Mountains, trapping ice climbers, skiers, and snowmobilers. Those rescued from complete burial near Chetwynd, BC, were extraordinarily lucky. Three had beacons, but one did not and was found when someone among the group saw the fingers of his glove moving in the boot print from a rescuer who was helping in the search.

27

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1952: Eighteen US airmen parachuted to safety in a blizzard outside Sydney, NS, as their transport plane hurtled into the woods at the edge of the city. The men leaped safely after 20 attempts to land at the reserve airport. Several narrowly missed high-tension wires. Others dangled from trees for a time, bashed by 80-km/h winds. Shoulder-deep snow on the ground helped to cushion their fall.

28

Chill Out

A team of scientists from the University of Sussex concluded that looking at a chilly person makes you cold. People watching a person submerging their hands in cold icy water made them feel colder. And the hand temperatures of witnesses actually fell. Hot or lukewarm water did not conjure the same reaction.

1

Death by Weather

Over a 10-year period, the number of Canadians who died from excessive heat due to weather: 23; excessive cold due to weather: 373; died from exposure to weather conditions not elsewhere classified (e.g., hail, humidity): 121; lightning: 45; and cataclysmic storms and floods (resulting from blizzards, cyclones, tornadoes, hurricanes): 9 [Adapted from Statistics Canada]

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MARCH 2019

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Sunday

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

<p>Bandit Must Be Canadian 24</p> <p>The woman suspected of being the Weathergirl Bandit was arrested in Los Angeles, CA, in March 2008. She earned her nickname because she allegedly handed bank tellers notes demanding money while chatting with them about the weather.</p>	<p>Icebergs - Pure Fresh Water 25</p> <p>Icebergs might have some dust embedded in the ice, and salt water may be on the surface, but it does not penetrate the ice. Iceberg ice is quite safe to drink.</p>	<p>Disappearing Ice 26</p> <p>The number of glaciers in Glacier National Park in 1850 was 150; today there are fewer than 50 glaciers.</p>	<p>Tornado Magnets 27</p> <p>People who live in trailers or mobile homes are 15 times more likely to be killed by tornadoes than those in sturdier housing.</p>	<p>How Do You Want Your Tea? 28</p> <p>Canadians drink 80% of their tea hot and 20% over ice, almost exactly the opposite of Americans.</p>	<p>1952: Across the Maritimes, 4 storms in a week dumped more than 70 cm of snow and generated mountainous waves, which dashed the hopes of saving 3 fishing boats with 10 fishers. Roads in the Annapolis Valley of Nova Scotia were blocked, forcing schools to close for the week. Strong gales piled the snow into 4-m-high drifts across Cape Breton Island, halting coal-mining operations in Glace Bay.</p>	<p>2</p> <p>For the estimated 8 out of 10 people who survive the initial shock of a lightning strike, half suffer memory loss and sleep disturbances. Other complications include numbness, muscle spasms, burns, hearing loss, and problems with coordination.</p>
<p>QUIZ: What weather triggers most avalanches? 3</p> <ol style="list-style-type: none"> 1) wind 2) snowstorms 3) temperature drop 4) pressure change 5) temperature rise <p><i>(Answer on inside back cover)</i></p>	<p>1971: A snowstorm dumped more than 50 cm of snow on Montreal, QC, paralyzing the city. A physician was shovelling his driveway when a policeman on a snowmobile "kidnapped" him and took him to a clinic to assist a woman in labour. A huge snowplough then transferred them to a nearby hospital, where the woman gave birth to a girl. Meanwhile, the doctor's wife called police to report her missing husband.</p>	<p>1910: An avalanche in Roger's Pass, BC, killed 62 railway workers who had been using picks and shovels to clear snow from an earlier slide across the CPR main line. As a result, the CPR authorized the drilling of the 8-km Connaught Tunnel straight through the granite core of the mountain to avoid the pass altogether.</p>	<p>2007: Victorians (BC) counted 3.4 billion blooms in their gardens, parks, and golf courses in this year's Victoria Flower Count, or, as one writer put it, "The 32nd Annual Festival of Bite Me, Toronto." This was significantly fewer than the 5.4 billion in 2006 and the record 8.5 billion in 2002; waning enthusiasm for the flower count, not weather, was likely the reason for the low tally.</p> <p>Ash Wednesday New Moon</p>	<p>1966: At Ucluelet, BC, what was believed to be a tornado drove a metal spike through a window of the school, lodging the spike into the blackboard. Class was in session but no one was injured, though some students were showered with glass.</p>	<p>1879: Across southern Manitoba, temperatures dropped rapidly, resulting in a thick crust of ice forming over the snow. When the wind started up, "great plates of ice 10 to 20 feet square were lifted and broken into smaller pieces, which in turn were raised on edge and blown along like icy cartwheels. The prairie was alive—demons on a rampage." [<i>The Canadian Climate</i>, C. E. Koeppel]</p>	<p>9</p> <p>Glacier National Park at 1471 cm of average snowfall per year—roughly the height of a four-storey building—is the snowiest spot in Canada.</p>
<p>QUIZ: Snowblower-related injuries occur most commonly to what part of the body? 10</p> <ol style="list-style-type: none"> 1) right foot 2) least dominant hand 3) thumbs 4) index finger of the dominant hand 5) middle finger <p><i>(Answer on inside back cover)</i> Daylight Savings Time Begins</p>	<p>1908: A young J. G. Diefenbaker and an uncle were at a concert when a blizzard struck and temperatures fell to -22°C. They became disoriented on the way home, and Diefenbaker fell asleep. When the pair arrived home, John's legs were like "blocks of wood." For years, the future prime minister was afraid to go outside in a blizzard.</p>	<p>2010: Mild weather and scanty snow across Manitoba forced more than half of the province's ice roads to close after less than a month, cutting off the winter lifelines for dozens of northern communities. They now had to fly in everything from building materials and bulky groceries at hugely increased prices. Ice roads that had previously been open for 60 days were now only usable for about 20 days.</p>	<p>1989: A large solar flare caused auroral displays that could be seen as far south as Jamaica. The solar storm, the 4th largest since 1932, also produced a province-wide blackout in Quebec. Solar winds from the sun interact with the magnetic fields around the Earth, resulting in energy surges that can cause power malfunctions.</p>	<p>1913: Dense fog settled over Montreal, QC, around the dinner hour, becoming denser throughout the night. It only added to pedestrians' weather misery, having already endured melting snow, rain, and the attendant deluge of mud. In the thick fog, streetcar motormen could not see 5 m in front of their cars, creating many close calls along the tracks as the trolleys appeared from nowhere.</p> <p>First Quarter</p>	<p>2004: A project to excavate 1.3 million cubic metres of mud and debris from Wascana Lake in Regina, SK, finished on time and on budget, despite difficult weather—blizzards, wicked winds, snowstorms, warm temperatures, and vicious cold. The 38-ha lake had become too shallow from sedimentary buildup. It had to be deepened or it would soon turn into marsh.</p>	<p>16</p> <p>In Canada, 5.5 trillion tonnes of rain, snow, and hail fall each year, enough to keep Niagara Falls flowing for 72 years.</p>

QUIZ: Waterspouts at sea were called living monsters of the deep. When sailors would see a spout coming what would they do?

17

- 1) change directions
- 2) shout and beat drums
- 3) drop anchor
- 4) head for the galley
- 5) fire cannons at the spout

(Answer on inside back cover)
St. Patrick's Day

1999: In Vancouver, BC, it was said that, "if it wasn't the worst winter on record, it's awful close." From November to March, it was the second-wettest winter on record since 1937, with 1,018 mm of precipitation. Vancouverites also experienced record-low sunshine for winter. Further, since November 1 there were 16 days when winds gusted to 60 km/h or more, just 3 shy of the record.

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1999: A freight plane crashed in Labrador, killing a pilot on the ice of Davis Inlet harbour. Weather conditions were terrible all day, with blowing snow and severe whiteouts. The Provincial Airlines Twin Otter was totalled; its wings, engine, and supplies were scattered over the ice. There was no sign of a fire or explosion.

19

1845: A large crowd watched as teams of horses dragged 2 newly constructed vessels from the shipyard of John and James MacMillan a half-mile onto the ice at Covehead, PE. When the ice melted, the vessels launched automatically.

20

Spring Equinox 17:58 EDT
Full Moon

2013: After more than half a year of tough winter weather, Prairie residents were fed up. The first day of spring was the start of more than 30 days of below-normal temperatures. Also on that day, snow on the ground was at record or near-record depths: Fort McMurray, AB, 51 cm; Peace River, AB, 33 cm; Regina, SK, 107 cm; Weyburn, SK, 32 cm; Brandon, MB, 77 cm; and Winnipeg, MB, 55 cm.

21

1894: The first Stanley Cup game was played before 5,000 fans on natural ice at Montreal's (QC) enclosed Victoria Rink. The evening temperature was -1°, down slightly from +1 in the afternoon. Montreal AAA defeated Ottawa Capitals 3 to 1.

22

Tornado winds on the sun blow 1,000 times faster than those on Earth.

23

World Meteorological Day

QUIZ: What day of the week do most incidents of lightning striking people or things occur?

24

(Answer on inside back cover)

1972: The Rideau Canal in Ottawa, ON, was closed for skating. This marked the first year the canal was transformed into a rink and the latest closing of the canal in 30 years. In 1996, the skating season closed on February 23.

25

1979: The combination of a swollen, ice-filled river and the greatest rainfall in 78 years produced major flooding on the Saint John River near Fredericton, NB. Waters washed away sections of the Trans-Canada Highway and the CPR tracks near Hoyt and Stanley. In Nashwaak Valley, officials ordered the evacuation of 12 families.

26

1987: Whitehorse, YK, set a new monthly sunshine record of 205.1 hours for March, surpassing the previous record of 195.1 hours in 1974.

27

1986: Farmers in southern Alberta watched helplessly as persistently strong winds stripped the soil. Conditions were especially bad near Lethbridge, where clouds of soil filled the air and reduced visibility to a couple of kilometres. The violent gusts toppled trees in the city, and several panes of glass fell out of a downtown office tower, blocking rush-hour traffic.

28

1997: About 300 female pregnant mink died from exposure to cold, wet weather near Blenheim, ON, after being set free by 5 animal rights people. The group released about 1,500 mink from captivity, although most of the animals stayed around the fur farm, about 85 km east of Windsor. The 5 were charged with break and enter, mischief, and possession of stolen property.

29

Environment Canada Issues more than 2¼ million weather forecasts annually: 1.5 million public, 20,000 warnings, 500,000 aviation, and 200,000 marine and sea-state.

30

31

QUIZ: Which month does the Earth receive the greatest amount of solar intensity?

(Answer on inside back cover)

Last Quarter

					1	2
3	4	5	6	7	8	9
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31						

APRIL 2019

MAY

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Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<p>De-worming After the Rain 31</p> <p>One way that Transport Canada recommends for keeping birds such as gulls away from aircraft at Canada's airports is to sweep worms off the runway after a heavy rainfall.</p>	<p>1918: Riotous civilians and police forces clashed for 4 hours in Quebec City, QC. Thick fog covering the city hampered the military in locating the disturbers. Snipers fired at soldiers from doorways and from behind snowbanks, escaping into the fog after firing. The battle left 3 dead, 6 wounded, and 100 arrested.</p>	<p>1885: A vicious 3-day blizzard, the longest in living memory, dumped more than 100 cm of snow on Ottawa, ON. The snow fell for 52 hours, causing the roof of the Royal Museum Theatre to collapse with such a loud crash local residents thought a powder magazine had exploded. Fortunately, the theatre was empty at the time because the blizzard had forced cancellation of the matinee.</p>	<p>2009: Dave Devall's final day as a Toronto, ON, TV weather broadcaster ended with a salute from the prime minister. The <i>Guinness Book of World Records</i> honoured Devall with the world record for the longest career as a weather forecaster—48 years, 2 months, and 27 days. He started working before the advent of satellites and super computers. His talent was drawing backwards on boards and Plexiglas.</p>	<p>1929: A severe electric storm turned night into day across Ottawa, ON. On Parliament Hill, a single lightning bolt struck the Peace Tower, causing the mighty granite columns to shudder. A second blinding flash struck the southeast corner of the Centre Block above the press correspondents' rooms, producing some nervousness.</p>	<p>1999: An intense winter storm hit Newfoundland. St. John's was hardest hit with a record snowfall of 69 cm. Winds peaked at 90 km/h, causing blizzard conditions for most of the day. Some drifts were almost to the rim of the basketball hoop. The rubberized bubble at the Greenbelt Tennis Club burst, flattened by the snow. Just days ago there were flowers budding in gardens and children playing basketball in bright sunshine.</p> <p>New Moon ●</p>	<p>Before air-conditioning, maternity wards in North America would see births dip in April and May (coinciding with conception in mid- to late summer). In the age of air conditioning, birth fluctuations have dampened out. People now spend more time indoors in the summer.</p>
<p>QUIZ: Which capital holds western Canada's one-day snowfall record? 7</p> <p>1) Edmonton 2) Victoria 3) Regina 4) Winnipeg 5) Whitehorse</p> <p><i>(Answer on inside back cover)</i></p>	<p>1976: The snow pack in the southern Prairies was 400% deeper than normal. With warm temperatures, rivers rose 2 m, sending floodwaters slashing through sandbag dykes, forcing evacuation. At Souris, MB, fast-moving, ice-infested waters snapped the cables of the town's 200-m swinging bridge, built in 1904 and the longest single-span suspension bridge in Canada.</p>	<p>1606: As Nova Scotia's early French settlers set sail in search of a warmer and more southerly site for a permanent settlement, they encountered fog and strong northeasterly winds. When the vessel ran aground, the men went ashore and watched the boat disintegrate on the rocks.</p>	<p>1996: Wiarton Willie was under protective custody after receiving several death threats. It seems some winter-weary folks were angry that the early spring Willie promised had not arrived. Willie's handler said that he was getting as many as 20 phone calls a day about the weather and the incorrect prediction. Several callers screamed into the phone before hanging up, "That damn groundhog should be shot!"</p>	<p>1911: A mechanical engineer working on the Saskatchewan Legislative Building restoration found a message in a bottle. The note read: "J. McLeish and F. Chester worked on these arches in April 1911. Has been a bad winter lots of people lost in blizzards hope to be home Xmas." Winter 1910–11 was the 10th coldest in Regina that century. "People lost in blizzards" may have referred to 4 Royal North West Mounted Police who on February 12, 1911, lost their lives in the Arctic.</p>	<p>2000: Charlottetown (PE) City Council decided to continue spring garbage pickup as usual, beginning on May 1 and not earlier, as one councillor had suggested. He favoured a mid-April pickup because global warming was bringing earlier springs. With the new warm weather, overzealous residents were raking their yards earlier.</p> <p>First Quarter ●</p>	<p>Psychologists found that students were more likely to enrol in a university that was famous for its academic rigour if they visited on cloudy days. When the weather turned sour, the value they placed on academics increased.</p>
<p>QUIZ: What is the average warning time for tornadoes—the time a family has to gather essentials and bolt for the basement or nearest storm shelter? 14</p> <p>1) 13 minutes 2) 3 minutes 3) there is no warning lead time 4) 30 minutes 5) one hour</p> <p><i>(Answer on inside back cover)</i></p>	<p>1912: "Skies were clear at the time, with no moon, and the sea was 'like glass.' A large Arctic high was situated almost directly above the <i>Titanic</i>. Even a slight wind would have caused ripples at the base of the iceberg, making it easier for the lookout to spot, and perhaps providing enough warning to have avoided the collision." [Rob Paola, Environment Canada meteorologist and member of the Titanic Historical Society]</p>	<p>1958: The most destructive tornado ever to hit Watrous, SK, took out a large barn, trapping more than 100 pigs. Some animals were buried in the wreckage; others were given a whirlwind push to the northeast. Later, farmers found 5 of the animals more than 2 km away. The winds also scattered hundreds of bales of straw. The main barn had disappeared, except for the loft floor.</p>	<p>2007: Northeasterlies drove 30-cm-thick spring ice pack (some of it harder, stronger old ice) against the coast of Newfoundland and Labrador—the worst conditions in 30 years. A wind shift tightened the ice, trapping more than 100 vessels, damaging many. As icebreakers began smashing through the ice, helicopters rescued some 50 fishers; 500 others waited in cold damp weather for nearly 3 weeks.</p>	<p>2004: A rare April tornado touched down south of Raymond, AB, about 6:10 p.m. and lasted 10 to 20 minutes. The tornadic column, measuring 15 m wide and 300 m high and leaning about 15 degrees off vertical, was filled with dirt, grass, stubble, and bits of paper. The RCMP later confirmed it left behind dime-to quarter-sized hail.</p>	<p>1973: A dust devil severely damaged an airplane at the Brandon airport in Manitoba. The twister lifted a Cessna 172 off the ground without affecting the planes next to it. At the time of the incident, the wind was blowing from the west up to 60 km/h.</p> <p>Good Friday Full Moon ●</p>	<p>Medical researchers from North Carolina say seasons do affect our mood and spring fever is real. When the weather turns warm, people get excited. Excitement triggers the brain to secrete endorphins—chemicals resembling morphine that give us the sense of well-being. Exercise may also contribute to spring fever because it is an anti-depressant.</p>

QUIZ: Which province reports the highest number of tornadoes on average?

21

- 1) Manitoba
- 2) Ontario
- 3) Alberta
- 4) Saskatchewan
- 5) Quebec

(Answer on inside back cover)
Easter Sunday

1932: During an electrical storm, 52 wild geese were struck by lightning as they flew over Elgin, MB. The jolt killed the birds, sending them crashing to the ground. Those collected were distributed to townspeople for goose dinners. Severe thunderstorms during the day dropped up to 35 mm of rain.

22

Earth Day

2001: An international search team rescued 5 hunters and 12 dogs trapped on ice floes in Canada's Arctic, thanks in part to Environment Canada's Ice Service, which identified areas where ice was breaking away from the shore. A Hercules airplane spotted the missing hunters off Broughton Island, NU, about 700 km northeast of Iqaluit. A chopper from Greenland eventually rescued them.

23

1896: Outside Victoria, BC, the *Matilla* encountered thick fog and became grounded near Point Wilson lighthouse. Its skipper had not heard the foghorn. Later, investigators learned that because of the dry weather, there had been no water available for the foghorn's steam boiler. The ship was repaired and returned to duty.

24

2007: According to experts, record cold November (2006) temperatures in the West—13 days lower than -20°C and 5 days lower than -30°C, including an extreme minimum of -37.1°C on November 29—had halted, at least temporarily, the spread of mountain pine beetles from British Columbia into Alberta. Encouraging survey information showed beetles were killed during the November cold snap.

25

1939: A rancher from Prince George, BC, reported the loss of a calf. City police checked restaurants, butcher shops, and farmers for a clue to the case. No trace of the missing animal was found, until the owner reported he found the calf dead inside his dairy barn. Apparently, the animal had been standing beneath the barn's roof when an avalanche had swooped down and entombed him beneath 2 m of snow.

26

Last Quarter

In North America, violent tornadoes are responsible for 68% of all tornado deaths, yet comprise only 2% of all tornadoes.

27

Last Day of Passover

QUIZ: Generally, which tornadoes are the most destructive?

28

- 1) fast-moving
- 2) slow-moving
- 3) hop, skip, and jump
- 4) reversing tornadoes that double back
- 5) zigzagging

(Answer on inside back cover)

1906: When a violent thunderstorm broke over Niagara Falls, there was a rare sighting of ball lightning. The eyewitness said the reddish brown ball was lying on the ground, burning like a fuse. "About 10 minutes after the fire went out I put my hand on the ground where the ball was, and it was still so hot that it burnt my hand. It smelled like sulphur, and when I touched it, it turned my fingers yellow. I felt no shock."

29

2008: After the Petite-Nation River rose 1 m, officials distributed 9,000 sandbags throughout St.-Andre-Avellin in western Quebec. Following a rainy day, the sandbag walls on the town's main street collapsed, causing streets to flood. Electricity was cut off. Twenty families were forced to flee, using boats to get around.

30

Raining Fish
During a 1908 thunderstorm, a resident of Chatham, ON, was hurrying to catch a train when a fair-sized pike, still alive but badly stunned, fell from the sky in the mud in front of him. Scientists explained that high winds, particularly whirlwinds, pick up water and creatures and carry them inland, where winds lessen and clouds lower, and fishes fall to Earth.

1

Weather Causes Rainy-Day Blues
According to the Canadian Institute of Health Research, as many as 15% of Canadians are likely to experience mild to extreme depression when exposed to rain during the summer—a version of rainy-day blues or warm season "SAD" (seasonal adjustment disorder).

2

April Showers - A Myth!
An examination of rainfall records at 412 weather sites across Canada reveals that April is not the wettest month at any of the locations. Nor does April have the most rainy days.

3

Ridiculed to Death
Robert FitzRoy is regarded by most meteorologists as the founding father of weather forecasting. Instead of hailing his prognostications as an important first step, politicians, newspapers, and scientists harangued and mocked Fitzroy continuously. He became so depressed that in 1865 he cut his throat in despair.

4

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MAY 2019

JUNE

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Sunday

Monday

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Saturday

<p>From Dust to Dust 28</p> <p>In 1982, a lightning bolt struck and killed 2 horses in Wisconsin. The matched pair were born on the same day during a thunderstorm. Their names were Thunder and Lightning.</p>	<p>Tornado Weirdness 29</p> <ul style="list-style-type: none"> pluck the feathers from chickens drive wooden planks through steel shear the wool off sheep suck soda from open bottles tattoo people for life by driving sand and grit deep beneath their skin 	<p>More Tornado Weirdness ... 30</p> <ul style="list-style-type: none"> lift sleeping babies from their cradles, carry them through the air, and place them safely down—still asleep—hundreds of metres away suck up birds into updrafts so high they suffer severe frostbite pick up a dozen cows and carry them ½ km before setting them down unhurt; their bawling in mid-air heard by eyewitnesses on the ground 	<p>1871: An order-in-council authorized the minister of marine and fisheries to spend \$5,000 for meteorological observations. This was the beginning of the Meteorological Service of Canada. Initially, its functions were limited to making selected weather and magnetic observations; in 1876 the service issued weather forecasts.</p>	<p>1997: The 1997 Red River flood was the highest recorded in the 20th century and the third highest in two centuries. The river rose 12 m above winter levels, flooding almost 2,000 km² of land. More than 28,000 Manitobans fled their homes. Unofficial damage estimates, including replacing infrastructure and flood proofing, exceeded \$450 million. Sandbagging, flood control works, and emergency dyking prevented an estimated \$6 billion in damages.</p>	<p>1989: Snowmelt and ice jams on the Liard River: (NT) caused the worst flooding there in a decade. Nine hundred residents were evacuated from Fort Simpson, NT, at the junction of the Liard and Mackenzie. Half the town was flooded. The local airport looked like a miniature lake with huge ice slabs floating around the tops of hangars. Ice floes nearly 2 m thick were left in the streets when the waters receded.</p>	<p>In May 1980, a former truck driver from Falmouth, ME, who became blind and deaf 9 years earlier following a head injury in a traffic accident, not only regained his sight and hearing when struck by lightning, he now sprouted hair on his bald pate. His doctor verified the medical miracle, although he couldn't explain it.</p> <p>New Moon ●</p>
<p>QUIZ: Lightning mortality rates in North America are declining. Why? 5</p> <ol style="list-style-type: none"> climate change more lightning-rodged buildings public education about lightning fewer telephone landlines fewer convertibles and open-back trucks <p>(Answer on inside back cover)</p>	<p>1978: A small white cyclone appeared in a neighbourhood in Sault Ste. Marie, ON. These cold air funnels usually begin over a lake but rarely move inland. The twister touched ground twice, swirling gravel and loose cardboard into the air, then throwing clothes off a clothesline. One woman said when it passed within 15 metres of her, the wind became so strong she had to lean into it.</p> <p>Ramadan Begins</p>	<p>1895: Forecasters in Toronto, ON, predicted warmer weather for Nova Scotia, but that was not strong enough language to prepare locals for the intense heat that came. The temperature in Halifax jumped from 5°C at 8 a.m. to 32.4°C at 3 p.m. The air was suffocating because of smoke from nearby forest fires.</p>	<p>1946: A "black blizzard" raked the western Prairies. The 4-hour storm filled the atmosphere with tonnes of dirt. At 5,000 m, the dirt froze on ice on the wings of a Trans-Canada Airlines plane flying over the Rockies. Poor visibility forced motorists to use their headlights. The black blizzard happened when many residents chose to clean or paint their homes.</p>	<p>1991: Warm temperatures as high as 20°C prevailed for two months over the Canadian Northwest. The ice-jammed Porcupine River, flowing west through northern Yukon, rose almost 10 m above its normal level at Old Crow, inundating the village and airport and cutting off power and communications. In the Mackenzie Valley, a thunderstorm with hail passed over Fort Simpson.</p>	<p>1997: Huge chunks of ice plunging over Niagara Falls choked the river below, causing a flood inside the offices of the Maid of the Mist Steamboat Company. It was the worst ice jam below the falls in 35 years. The ice pushed both Maid of the Mist tour boats about 2 m from where they would normally sit.</p>	<p>A developer in Tulsa, OK, in the heart of tornado alley, offered tornado-safe rooms as a purchase option for new homes. Nine of the first 10 buyers paid the extra \$2,500 for the room, which could also be used as a closet, bathroom, or vault when not needed for storm safety. The 10th couple was 75 years old and opted for a hot tub instead.</p> <p>First Quarter ●</p>
<p>QUIZ: The number of asthma admissions was greater on days with: 12</p> <ol style="list-style-type: none"> snow rain thunderstorms high humidex brutal wind chills <p>(Answer on inside back cover)</p> <p>Mother's Day</p>	<p>2007: A warm, dry spring led to early fire restrictions for central and northwestern Ontario. Four out-of-control blazes forced 300 from their cottages and threatened others near Thunder Bay. Since April 1, 141 fires had burnt some 27,000 ha. Hazy skies suspended water bombing. Dry winds and low humidity could still trigger "sleeping dragon" fires—fires burning deep within the forest floor.</p>	<p>1935: A cloud of dust stretched from Alberta to Texas, suffocating birds in the sky and dusting ships at sea 480 km off the eastern coast. In just one storm in 1935, 12 million tonnes of dust were dumped on Chicago. By 1935, some 850 tonnes of topsoil had blown from the Great Plains. On several occasions, thick clouds of dust blotted out the sun.</p>	<p>1986: A forest fire out of control in the Grand Falls-Windsor area of central Newfoundland swept to within 100 m of storage bunkers loaded with blasting caps and the equivalent of 7 boxcars of dynamite. Fortunately, the wind shifted at the last minute, turning back the flames.</p>	<p>2005: In Rankin Inlet, NU, nearly 300 cm of snow fell from September to May inclusive, about 250% more than normal. On average, only 1 snowfall of 12 cm or more occurs each year at Rankin Inlet. This winter, it happened 10 times. High-snowfall records were set for April and October. The 26.4 cm of snow on April 28 was the heaviest 1-day snowfall ever.</p>	<p>1864: The townspeople of Port Pemberton, BC, were startled by a rumbling noise. Rushing outside they witnessed an immense portion of the steep hill behind the town sliding toward them, bearing before it enormous rocks, logs, and trees. Fortunately, the avalanche did not fill the town but rather some 10-15 m of the upper end of Lillooet Lake. Residents congratulated themselves on their good fortune.</p>	<p>Two Toronto, ON, researchers found a significant correlation between temperature and financial returns. In general, the lower the temperature, the higher the stock returns. Sunny days were also linked to high stock prices, possibly because sunshine increases optimism.</p> <p>Full Moon ●</p>

QUIZ: What is the prime target of lightning?

19

- 1) lumberyards
- 2) airports
- 3) churches
- 4) schools
- 5) golf course clubhouses

(Answer on inside back cover)

1933: Egg-size hailstones fell from a freak shower, causing heavy damage in the little village of Ship Harbour, NS. Large hailstones riddled the roofs of 25 homes, giving the appearance of having been blasted by machine guns. They also smashed windows and crushed scores of hens and chickens.

20

Victoria Day

1921: Lightning struck a farmhouse near Tracy, NB, killing a farmer, paralyzing his wife, and stunning their little girl. It also set fire to the house, which, in the high wind, burned so quickly that the farmer's body was consumed before it could be removed. The child recovered consciousness in time to drag her mother to safety.

21

1980: A fine grey residue, alleged to be volcanic ash from Mount St. Helens, WA, was strewn across Atlantic Canada by widespread thunderstorms.

22

2005: At Commonwealth Stadium in Edmonton, AB, chilly rain and gusty winds cut short a centennial performance before the Queen and Prince Phillip and some 15,000 hardy souls. Just seconds after cutting the centennial cake, the Queen was almost jabbed by a wayward metal spoke of the umbrella carried by Alberta Premier Klein. It all but touched her face and nearly knocked off her furry hat.

23

1977: The 750 residents of Lafleche, SK, assessed damage caused by hail and wind that left not one dwelling untouched. One farmer said his aluminum irrigation system was torn apart, with some pieces found 5 km away. A woman was showering when a piece of 2-by-4 was driven through her roof, coming to rest standing upright beside her in the tub.

24

A hundred years ago, a popular cure for a lightning stroke victim was to shower with cold water for two hours. If the patient could not be revived, the recommended practice was to just add salt to the water and continue showering another hour.

25

QUIZ: In what activity are deaths and injuries from lightning the greatest in Canada?

26

- 1) golfing
- 2) camping and hiking
- 3) picnicking
- 4) boating
- 5) cutting the grass

(Answer on inside back cover)

Last Quarter

1997: Golfers from Environment Canada, including weather forecasters, teed off at Edmonton's Westridge Golf Club (AB). The weather was perfect, though it had rained the previous day. As the last group stepped off the 18th hole, it started to pour. Said the head pro at Westridge: "I asked them what was going on and one of them said matter-of-factly, 'we've got pull.'"

27

2005: A deluge in southern Nova Scotia swamped roads, bridges, and scores of homes. Bridgewater declared a state of emergency and RCMP went door-to-door, at times by boat, to ensure residents had left. Parts of Nova Scotia got 248+ mm of rain, their wettest May ever. Halifax had 11 straight days of rain (3 over 55 mm). A Hebbville woman tied her greenhouse to a tree when it began floating away.

28

1914: Two years after the *Titanic* sank, the CP liner *Empress of Ireland* collided with a Norwegian collier in the St. Lawrence River, 12 km northeast of Rimouski, QC. The freighter cut through the steamship like a can opener. The passenger liner sank in 14 minutes; 1,012 people died. There were reports that a bank of fog had rolled across the river when the ships disappeared.

29

2005: A pilot flying a Cessna 172 from Calgary, AB, to Victoria, BC, landed on a busy highway near Hope, BC. When the weather closed in, she descended 800 m but was still trapped in heavy cloud. She cruised low over Highway 3, waiting for an empty section between vehicles. On landing, the plane incurred only minor damage to a wing tip from hitting a sapling as it was steered off the highway.

30

1998: Four family members from Pangnirtung, Nunavut, including a 1-year-old baby, on a fishing weekend were rescued after a freak meltdown stranded them on Baffin Island for almost 3 days. When the temperatures warmed, the ice melted and water covered their trail. Eventually a plane spotted them from the air and dropped a radio and some food. Said the head of the household, "Oh, I was so happy. I only had one cigarette left."

31

Snow Day ... How about Sun Day
On a warm, sunny day in May, at a private school in Washington State near Canada, the principal declared a Sun Day. Everyone got the day off from school to enjoy the great weather. He wanted to re-create the excitement that snow days caused among the kids. There had been no snow days the past winter—one of the warmest and least snowy on record.

1

MAY

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JULY

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JUNE 2019

Sunday

Monday

Tuesday

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Thursday

Friday

Saturday

Telling Temperature by Cricket Chirps **26**
As the temperature rises, so does a cricket's metabolism, which increases how often it chirps. To tell the temperature in degrees Celsius, count the number of chirps a cricket makes in 25 seconds, divide by 3, and add 4.

Weather and Traffic Accidents **27**
Researchers at Queen's University Faculty of Medicine (ON) reviewed car accidents that had occurred in a nearby county between June and September. They concluded that 81% of fatal mishaps and 73% of non-fatal occurred when the barometric pressure was falling.

Maternal Stress During Quebec Ice Storm **28**
A developmental psychologist at McGill University (QC) found that pregnant women who suffered higher levels of stress during natural disasters such as the 1998 eastern Canadian ice storm gave birth to children more inclined to obesity and an increased risk of diabetes.

Kim Jong-un Complains about Inaccurate Forecasts **29**
North Korean leader Kim Jong-un toured his country's national weather office and satellite lab in June 2014. He then lit into the forecasters for "too many incorrect forecasts." There was no word on what would happen to the meteorologists if errors continued.

World Record High Temperature **30**
On June 30, 2013, at California's Death Valley National Park, at a station called Furnace Creek, the thermometer hit 53.8°C—the warmest June temperature ever and an all-time June high temperature for the United States. The Earth's highest recorded temperature is 56.7°C at Greenland Ranch (Death Valley, CA) on July 10, 1913.

How Low Can It Go? **31**
The lowest barometric pressure ever recorded at sea level was at Typhoon Tip, some 850 km northwest of Guam on October 12, 1979. The pressure was 87.00 kPa. Canada's lowest pressure did not occur in a hurricane but in a powerful winter storm on January 20, 1977, at St. Anthony, NL, at 94.02 kPa.

According to a professor at the University of Waterloo (ON), perfect summer weather for playing hooky from school or work would be clear skies with a humidex of 27 and a wind speed about 15 km/h. In an ideal world, the professor says companies should offset the effect of weather by paying employees more on nicer days. **1**

QUIZ: Which city in Canada has the sunniest summers? **2**
1) Yellowknife
2) Winnipeg
3) Estevan
4) Calgary
5) Kelowna

(Answer on inside back cover)

1990: Northwest of Bobcaygeon, ON, a suspected tornado (there was no confirmed sighting or radar image) levelled a 2-storey barn, snapping 30-cm beams in half and scattering debris up to 30 m from the site. Amazingly, a 1928 Chevrolet antique automobile stored in the barn escaped damage, although beams fell on 3 sides of the car. **3**

New Moon ●

1932: A day of muggy heat (28.3°C) spawned an electrical storm with heavy rain in the Chaplin area of Saskatchewan. It flung utility poles across roads, blew down barns, coal sheds, and chicken houses, and overturned wagons. In Chaplin, the Alberta Pacific Elevator Company's oil house was lifted and carried several metres, and a building filled with barrels was left in the middle of the road. **4**

1932: It didn't rain "cats and dogs" at Banff, AB, but it rained wild ducks instead. During a brief heavy rainstorm, a night flight of wild ducks was forced down and they mistook the illuminated asphalt and oiled roads for streams. Many birds crashed, breaking their necks. The next morning, children reaped a harvest of dimes by collecting and selling the dead birds to a taxidermist. **5**

1968: It was a meteorologist's dream. Thirty-five weathermen from across Canada toured the Alberta Hall Studies Centre in Penhold. To everyone's delight, storms pelted the base and were, as one expert said, "very fluid." Hail fell on farms west of the airbase, leaving fields looking like winter. In the south, a small tornado formed. It was a perfect terrible day for a meteorological demonstration. **6**

1945: A convoy of ships from Europe arrived in Halifax, NS, after several of them were damaged in a field of icebergs off the Newfoundland Grand Banks. Most of the collisions occurred within a 10-minute period. Visibility was barely more than 80m. That no ship sank or lives lost was a miracle. **7**

In June 2011, a woman in New York sued a bikini manufacturer because her bikini got too hot. The underwire in the top of her black swimsuit heated to the scorching point, causing her third-degree burns and blistering after about an hour in the sun. **8**

QUIZ: Canada holds the world weather record for which of the following? **9**
1) the most snow in one year
2) the lowest temperature
3) the highest wind speed
4) the lowest rainfall
5) none of the above

1919: At Staynor Hall, SK, a tornado levelled a house, cowshed, and chicken coop; carried farm machinery 3 km about the country; and drove boards into cattle. Houses were lifted 60 m and then smashed. Near Shaunavon, flying debris struck a farmer in the head. When he came to, he was lying beside his unconscious wife, their baby still in her arms. Their house had collapsed and was on fire. **10**

1998: Prairie communities had to ration water in the midst of one of the driest springs on record. Hot weather led to an increase in beer consumption. But the empties didn't come back quickly enough, and the breweries ended up short 1 million cases of empty bottles. Brewers' association ads warned beer lovers that without returned bottles there would be a shortage of some brands. **11**

1986: In the days before the SkyDome's (ON) retractable roof, fog and rain persisted for most of the baseball game between the Detroit Tigers and the Toronto Blue Jays. After a pop fly to centre field disappeared in the fog for an inside-the-park home run, the umpire mercifully called the game, with the Jays ahead 9-0. **12**

1886: Vancouver, BC, the last stop for the new Canadian Pacific Railway, grew rapidly. Workers cleared forests, leaving heaps of branches and stumps to dry out in the hot sun at the edge of every road and clearing. On June 13, a fire that started in the woods burned down the city, taking many lives. **13**

1892: A powerful tornado slammed into the tiny town of Ste-Rose, QC. The frail wooden schoolhouse took the biggest hit with portions of the building landing 2 km away. Twenty-five children were in the building when the storm struck. Three died and 5 were injured, including the teacher. In Gatineau, the tornado uprooted trees, destroyed fences and outbuildings, and caused more deaths. **14**

The ancients held people killed by lightning in great honour, as they believed Zeus, the king of the Gods, had felled them directly. The bodies of those so struck were said to be incorruptible. **15**

QUIZ: Which city in Canada has the least amount of fog in a year?

16

- 1) Timmins
- 2) Brandon
- 3) Whitehorse
- 4) Penticton
- 5) Quebec City

(Answer on inside back cover)
Father's Day

1816: A father in Missisquoi County, QC, went to fix a sheep shelter in a far pasture. He left about noon in a snowstorm, half-joking, "If I'm not back by night, better get the neighbours out as I'd hate to freeze to death in June." When he had not returned by night, the neighbours went looking for him. A search party found him 3 days later—2 km from the shelter, frozen to death.

Full Moon

17

2006: Smog grounded small planes in Quebec and left asthma sufferers breathless. Temperatures in Montreal hit 32°C and the humidex approached 40—perfect conditions for smog. It blanketed the region from Montreal, north to the Laurentians, east to Lanaudière, and northwest to Lachute and St. Jerome, cancelling area sightseeing tours. Montreal's smog could be seen 160 km northwest of the city.

18

1989: Eight tornadoes were reported across central Saskatchewan. Winds gusting to 130 km/h uprooted trees, tore off shingles, blew over granaries and sheds, and caused power failures. The worst damage occurred near Blaine Lake, northwest of Saskatoon, where hail shredded crops soon after the tornado. Winds lifted a 23-m mobile home enroute from Estevan to Edmonton and dumped it in a ditch.

19

1912: A father arrived at the newlyweds' home in Greenlawn, SK, to find its roof blown away and its walls swirling mud. All he could find was a nightgown gaily flapping from a nearby tree and an unbroken mirror from Grandma's dresser, which he later found unscarred. Fortunately, no one was killed. The bride and other relatives had gone to help hold down the neighbour's roof.

20

1919: According to author Robert Knuckle, in the 45 years that the Mounties patrolled the prairies on horseback, lightning killed only 1 Mountie. The bolt hit his revolver (and melted the butt plate), went through him into the saddle, and came out the horse's body into the man's spur. The watch in the top pocket of the sergeant's jacket stopped at 5:40.

National Aboriginal Day
Summer Solstice 11:54 EDT

21

Umbrellas first appeared in Europe in the 16th century. But it took 200 years before they were used, not as sunshades, but for shelter from the rain.

22

QUIZ: Which province has the greatest number of hours of sunshine in winter?

23

(Answer on inside back cover)

1972: Only rarely do tornadoes move from east to west. One of these few exceptions was a tornado that occurred in Maniwaki, QC, on this day. It was associated with Hurricane Agnes, which had earlier swept northward along the US Atlantic coast.

24

1971: An intense storm with cyclonic winds and heavy rain struck the Grand Coulee and Pense districts of Saskatchewan. One family waiting out the storm in their car beside the road saw their new camper trailer tip over with the first gusts of wind. About 5 minutes later, as they pondered how they were going to upright the trailer, the wind switched direction and, much to their surprise, turned it upright again.

25

1915: Following a fierce storm and flood in and around Calgary, AB, the Bow and Elbow Rivers rose nearly 3 m in a few hours. The floodwaters carried away 2 bridges, flooded scores of houses, and disrupted the supply of natural gas to the city. The Canadian Pacific Railway line was washed out, sending 2 men to their deaths.

26

1930: Heavy rains caused a washout of the CNR tracks 6 km east of Capreol, ON, leading to the derailment of 2 trains. There were tales of nightmare horror as frantic mothers sought to save their children. One brave mother broke through a window, and with a child under each arm, and an infant gripped firmly in her teeth, swam to the shore of the Vermilion River.

27

1803: The *Lady Hobart* sailing northwest of Newfoundland struck an iceberg taller than the masthead and about 1 km wide. The crew went missing for several days. Rescuers presumed the men had drowned until they discovered them a week later marooned on shore in Conception Bay.

28

The greatest number of lightning casualties occurs just as the storm ends. One explanation is that people believe the storm is over and so venture outside (creating more targets), only to be hit by the storm's last strikes.

29

30

QUIZ: What country is the snowiest?

(Answer on inside back cover)

Discovery Day (NL)
St. Jean Baptiste Day

Last Quarter

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JULY 2019

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Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<p>Some Bizarre Droppings from World Skies 30</p> <p>In Germany it rained fresh mussels in 1892. Small unripe peaches dropped on Shreveport, LA, from a passing thunderstorm. Young eels fell from the sky in Oxfordshire, UK. Hundreds of wild birds of strange plumage dropped dead in the streets of Baton Rouge, LA, from a clear sky.</p>	<p>1911: In Ontario and Quebec, temperatures approached 40°C. In a 3-day period in Montreal, there were 183 registered deaths; 146 were children under 5. In Ottawa, a mother went into a store, and on exiting, found her baby dead of heat prostration. Electric fans were installed in the House of Commons. A tonne of ice per day was used to cool the chamber.</p> <p>Canada Day</p>	<p>1996: Two weeks after boasting of a budget surplus during an election campaign, BC's finance minister revealed a huge budget deficit instead, which he blamed on the weather. He claimed that heavy snows and rain late in the fiscal year had delayed logging operations. The opposition party presented 40 pages of weather records showing snow and rain totals for that period were average.</p> <p>New Moon</p>	<p>1987: A torrential downpour at Glenn Abbey Golf Course near Oakville, ON, forced officials to suspend play 3½ hours through the 2nd round of the Canadian Open, the first time a round could not be completed in the Open's 78-year history. Less rain fell north of Toronto at the site of the Weatherman's Golf Tournament.</p>	<p>1974: More than 250 icebergs drifted ashore along eastern Newfoundland, a record number for so late in the year. In 1974, nearly 1,400 icebergs entered the Grand Banks, one as far south as 42°N.</p> <p>Aphelion 18:10 EDT</p>	<p>1955: A violent windstorm propelled 2 empty boxcars on the CNR line at Stephenfield, MB, through an open switch and then on to Sperling, where they derailed. Residents estimated the speed of the freewheeling cars was 65 km/h.</p>	<p>French researchers publishing in <i>Circulation</i> found that people in cold weather have more heart attacks, especially as they get older. They determined that a 10 degree Celcius decrease in daily temperature was associated with a 13% increase in the rate of heart attacks.</p>
<p>QUIZ: Which province has the greatest number of hot days (above 30°C) on average? 7</p> <p>1) Ontario 2) Quebec 3) Saskatchewan 4) British Columbia 5) Manitoba</p> <p>(Answer on inside back cover)</p>	<p>1989: Smoking may have saved the life of a farmer from Glenavon, near Regina, SK. When he ran out of cigarettes, he loaded his two-year-old twins into the car and drove to town for a fresh pack. When he returned, his house-trailer and entire farm lay in ruins. The tornado also killed 200 chickens and injured a horse and steer so badly they had to be shot.</p>	<p>2009: Tornadoes killed 3 tourists at a fishing and hunting resort on Lac Seul in northwestern Ontario—an area where tornadoes are relatively rare. Winds of 180-240 km/h downed several large trees and lifted 2 cabins and a dock 2 m off the ground and tossed them into the lake. Ironically, the victims were from Oklahoma's tornado alley, home to some of the deadliest tornadoes in the United States.</p> <p>Nunavut Day First Quarter</p>	<p>2006: Warm, humid weather and increased rainfall across Prince Edward Island caused an earwig explosion. The pincher-like creatures are named for the superstition that they crawl into the ears of sleeping people and bore into their brain. Actually, they are harmless. Insecticidal soaps and wrapping duct tape sticky side out, around a house (an old "Red Green" trick), get rid of them.</p>	<p>2007: Victoria, BC, reached 36.3°C, an all-time record, and its hottest night (over 19.6°C). Chilliwack (38.8°C), Abbotsford (37.9°C), Squamish (37.6°C), and White Rock (36°C) also set all-time records. BC Hydro asked buildings in Vancouver to cut back peak-hours' energy use. When 2 BC Ferries workers suffered heatstroke, others refused to wear their company-issued wool hats and long pants.</p>	<p>1920: A cloudburst at Cache Creek, BC, generated a wall of water 2 m high on the Thompson River, sweeping away several houses, barns, trees, and any other movable objects. The raging torrent demolished a government road camp and an Indian ranche.</p>	<p>In sunny weather, railway tracks can become 25°C hotter than the overriding air, increasing the risk of track warping and derailment. 13</p>
<p>QUIZ: Which country has recorded the highest temperature? 14</p> <p>1) Cuba 2) Bangladesh 3) New Zealand 4) Lebanon 5) Canada</p>	<p>2013: Humidity readings in Ontario and Quebec exceeded an unhealthy 40 for several hours. The season's first, longest, and only heat wave sent paramedics scrambling and overloaded emergency rooms. Temperatures soared to 35°C and nighttime readings stayed consistently above 20°C. The hotspot was Beauport, QC, a steamy 38.6°C. Two deaths in Quebec were possibly connected with the extreme heat.</p>	<p>1980: A violent windstorm blew down 1 of the 2 outdoor screens at the Twin Drive-in Theatre in Windsor, ON. The manager changed the film marquee to read: "Not showing . . . Gone with the Wind!" Elsewhere in the region, a couple lost 2 m off the top of their tall spruce tree. Their son placed a cardboard sign on the fallen tree advertising: "Christmas tree for sale."</p>	<p>2000: A confirmed F2 tornado with estimated speeds of 200 km/h touched down in the south end of Guelph, ON, around 8:15 p.m. It tore up trees, flattened fences and decks, and ripped off sections of roofs from more than 125 houses and garages. Two people suffered slight injuries. Some areas were left without electrical power. Estimated property damage was about \$2 million.</p>	<p>1856: Lightning struck a house in Chatham, NB, killing 2 young girls. The father of one of the girls threw a barrel of flour on the fire from an upstairs window. He then took his injured wife outside, where she told him that both girls were dead. He went back in and saw them standing at a table, holding dishes. As soon as he touched them, they both fell dead.</p>	<p>2007: Over 170 mm of rain devastated Quebec's Hull-Chelsea-Wakefield area, flooding fields, washing out parts of a highway, and creating a chasm that left train tracks swinging over it like a rope bridge. Passengers on the local steam train were returned to Chelsea by bus. Across the road, hay bales floated in a submerged field. Two 50- to 100-m sections of road in the Pontiac region vanished.</p>	<p>A 13,000 tonne-British ore-carrier collided with a 6,000-tonne vessel in heavy fog in 1962 on the St. Lawrence about 90 km downstream from Quebec. The ore-carrier and its crew of 49 sank quickly, leaving only the foremost and stack above water. 20</p>

QUIZ: Over the past 50 years what place on Earth has warmed the most?

21

- 1) Canada's Northwest Territories
- 2) Antarctica
- 3) Poland
- 4) Sahara Desert
- 5) Atlantic Canada

(Answer on inside back cover)

2005: Around 5 p.m., in the midst of 15 minutes of heavy rain, thunder, and hail, small tornadoes touched down in the Moncton, NB, area. Strong winds ripped wiper blades off vehicles, hurled a picnic table and set of swings tethered to a deck into the swimming pool, denuded a walnut tree, and tore beans, tomatoes, cucumbers, and potatoes from a garden, as if it had been done by hand.

22

1905: Owing to the scarcity of water for hydraulic mining in the Klondike district, the Yukon government and some mine owners hired a professional rain wizard from Los Angeles, CA. If he produced sufficient rainfall for a prosperous summer in the placer mining industry, he was to receive \$10,000; otherwise he would be paid only his expenses. But his attempts failed. In the House of Commons, MPs condemned the "foolish performance" of the Yukon authorities.

23

1996: Calgary, AB, was pounded by the second severe hail- and rainstorm in 8 days. Orange-sized hail clogged storm sewers and caused massive flooding. Drivers were marooned on the roofs of their vehicles. Attendants at a gas station turned down \$50 bribes from motorists wanting to shelter vehicles in service bays. About 20 vehicles attempted to join underneath one pump canopy to avoid hail damage.

24

Last Quarter



2005: In Kingsville, ON, Highway 3 was so hot that construction crews got their diamond-tipped saws stuck in it. The extreme heat caused the concrete to expand and the pressure from miles of road on each side locked in the saws. Crews had to use jackhammers to free them. The company tried cutting the concrete at 2 a.m. when it was cooler, but finally decided to resume work in mid-September.

25

1898: One of the worst storms in memory struck Ottawa and parts of eastern Ontario. Just before 3 p.m., massive, black clouds rolled into the city. For 2 minutes the cyclone (tornado) raged, ripping boards and shingles from buildings, uprooting trees, and blowing down fences. Winds tore a piece of slate roofing about 4 m long from the House of Commons.

26

The first report of a tornado in Canada occurred on July 1, 1792, in Ontario's Niagara Region. It levelled all houses and uprooted trees along a narrow track. Early settlers took advantage of the destruction to build a road along the trail of fallen trees. They named it Hurricane Road.

27

QUIZ: In Canada which season has warmed up the most over the past 50 years?

28

- 1) winter
- 2) spring
- 3) summer
- 4) fall
- 5) no difference among seasons

(Answer on inside back cover)

1946: The most destructive hailstorm in the Okanagan Valley's history pelted Penticton, BC, with hailstones as large as hens' eggs and weighing 85 grams. In 15 minutes, the storm wiped out 15% of the bumper crop of apples, peaches, apricots, and plums.

29

2003: In Downsview Park in north Toronto, ON, paramedics cared for 3,000 people attending the Stones/SARS concert on a hot day. Healthcare workers treated dozens of minor heat-related illnesses such as headaches, sunburn, sunstroke, dehydration, and nausea. Another 25 more serious cases—chest pains, shortness of breath, and asthma—were treated at area hospitals.

30

1987: A week-old baby hurled 50 m by the Edmonton (AB) tornado survived with only a few scratches. Even more remarkable, a neighbour found her bundled in a blanket on a road during the storm. No one knew who the infant was, and she lay in intensive care as Miss X until late that night when her grandfather ended a frantic search by identifying the child.

31

New Moon



Noisy Death of an Iceberg

The amount of energy released during the 20-minute breakup of a floating 60-km long iceberg in Antarctica was equivalent to the noise produced by about 214 supertankers. Sounds such as groans, shudders, cracks, and scrapes along the seafloor were so loud that scientists thought they were listening to an erupting volcano.

1

More Boys than Girls - Blame It on Global Warming

Researchers discovered a significant correlation between sex ratios and temperature. According to scientists at the University of Muenster in Germany, writing in *New Scientist*, if you want a son, wait for a month after a heat spell then start conceiving. If you want a daughter, wait for a month after a cold spell. These scientists contend that with global warming, more boys than girls will be born.

2

Heat Waves and Violence

Heat waves lead to more violence. In 1988, the murder rate in New York jumped 75% during a heat wave, and rates of domestic violence consistently increased during hot periods. However, the link may be an indirect one: people tend to drink more alcohol during heat waves, and this is the more likely trigger for violence.

3

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AUGUST 2019

Sunday

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

<p>Air-conditioned Confessionals 28</p> <p>Roman Catholics have been going to confession for 2,000 years. Now they seem to need air-conditioned confessionals. A Venice-based company named Genuflex is marketing climate-controlled confessionals complete with soft lighting, soundproofing, hygiene facilities, and black leather seats. One sceptical cleric suggested that, given the purpose of the confession, perhaps a little heat might remind the faithful of the "other option."</p>	<p>Raining Frogs in Calgary 29</p> <p>It rained frogs in Calgary, AB, early on the morning of August 4, 1921, much to the edible delight of neighbourhood cats. Along 11th Avenue, the frogs were strewn thickly on the pavement. Some residents believed they had come out of their hidden retreats to bathe in the shower, but there were no eyewitnesses.</p>	<p>Hurricanes Deaden Batteries 30</p> <p>Several motorists parked their vehicles in a downtown Miami, FL, multi-level garage to shelter from Hurricane Andrew in 1992. Three days later, 25 motorists reported their cars weathered the storm well but would not start. Salt spray might have deadened batteries. Experts also speculated that low pressure sucked battery acid toward the top of each individual cell; enhanced evaporation dried out the cells, rendering them useless.</p>	<p>Some Bizarre Droppings from Canadian Skies 31</p> <p>Millions of minute toads rained on Brockville, ON. Tiny fish fell from the skies over Erieau, ON. Brown beetles rained at Rock Creek, BC, for 3 hours. A shower of live lizards fell on the sidewalks and streets of Montreal, QC.</p>	<p>1990: Hurricane <i>Bertha</i> and its 120-km/h winds soaked Prince Edward Island and the eastern half of Nova Scotia, causing extensive flooding and property damage. Rainfall exceeding 130 mm flooded sections of the popular Ingonish Beach Golf Course. South of Nova Scotia, 7-m waves snapped the keel of a cargo ship, taking 6 lives—21 were rescued.</p>	<p>2005: Air France Flight 350 landed in a driving rainstorm at Lester Pearson International Airport, ON. The jet overran the runway, slammed into a ditch, and burst into flames, but, miraculously, the more than 300 people aboard survived. Shifting, shearing winds with strong gusts, a downpour that reduced visibility, and frequent lightning flashes might have contributed to the accident.</p>	<p>Under the blazing sun of the Kalahari Desert, ground squirrels raise their tails creating portable parasols in order to shade them from the torrid heat. 3</p>
<p>QUIZ: Which of the following cities is likely to have the highest incidence of kidney stones because of the weather? 4</p> <ol style="list-style-type: none"> 1) Vancouver 2) Windsor 3) Regina 4) Toronto 5) Montreal <p><i>(Answer on inside back cover)</i></p>	<p>1981: A tornado hit Kronau, SK, southeast of Regina, about mid-afternoon. One resident saw a small steel granary lift straight up into the air and shoot across the sky as if it had been "shot from Cape Canaveral." In less than 6 seconds, the tornado levelled 4 steel granaries, a storage building, and a garage-workshop. 5</p> <p>Civic Holiday</p>	<p>2002: Near Fredericton, NB, a lightning bolt struck and killed 25 of the 32 Jersey cows huddled under a tree. A farmer found the cows dead in a pile. Two weeks earlier, a farmer in nearby Hoyt started milking his herd when lightning struck and killed 6 cows. He said: "They went down like dominoes, falling in the same direction, with their rumps toward the rain." 6</p>	<p>2005: Near Kamloops, BC, in the presence of stiff winds and bone-dry ground cover, firefighters battled wildfires on steep mountain slopes. Sparks from a nearby train possibly ignited the blazes. Firefighters at Sleetstis Creek, near Lytton, not only had to work in rugged, elevated terrain, but also had to contend with rattlesnakes. Warm temperatures made most of the rattlers passive. 7</p> <p>Royal St. John's Regatta (NL) First Quarter</p>	<p>1949: Nine hundred turkeys on a farm near Yorkton, SK, took to the bush when let out a few minutes before a severe thunderstorm struck. The storm demolished the turkey houses. A bull in the barn also took to the bush but not of his own accord. When the barn blew away, the bull went with it and was never found again. 8</p>	<p>2003: A weather system entrenched over the Maritimes during early August brought near-continuous showers to the region. It meant the farmers couldn't harvest a second crop of hay. Vegetable producers in the Annapolis Valley, NS, watched heads of lettuce swell and explode, and cucumbers grow too big to sell. The damp weather also swelled covers and book pages in bookstores. 9</p>	<p>When after five days, a rainmaker failed to make it rain, frustrated residents of Minden, NE, tied him to a telephone pole while the fire brigade turned hoses on him. 10</p>
<p>QUIZ: Why is dew not precipitation like rain, freezing rain, snow, and hail? 11</p> <ol style="list-style-type: none"> 1) not water 2) doesn't fall 3) too little to be measured 4) evaporates before it can be measured 5) forms at night 	<p>1997: Sightings of whales of all shapes and sizes were up dramatically along Nova Scotia's Atlantic coast. Experts credited the unusually sunny, dry weather for shifting the marine food chain and drawing the whales closer to shore in search of fish. Members of a charter operation near Halifax said they could see the whales from their kitchen table. 12</p>	<p>2013: Temperatures in Nunavut were unusually warm, with Kugluktuk reaching 29.3°C for 6 consecutive days. Normal daily highs are 13°C. Baker Lake set a new record with a temperature of 26.7°C, only to exceed that with another record the next day at 29.2°C 13</p>	<p>1982: French, a golden retriever, knew what was coming when black clouds started boiling over the skies of Prince Albert, SK. He began yelping at the door and went wild. The ensuing hailstorm smashed several windows in the farmhouse and drove glass into the walls. French's owner credited him with saving the family. By raising the alarm, the dog gave them time to take shelter. 14</p>	<p>2007: West Nile virus had infected 2,351 Canadians; the previous record (2003) was 1,481. The Prairies had 98% of all clinical cases (8 deaths linked to it). Its spread was facilitated by a wet spring, a hot July; a delayed 1st hard frost; more infected mosquitoes and birds surviving last year's mild short winter; and a warmer summer that kept more people outside longer, increasing their exposure. 15</p>	<p>2003: The BC government issued a warning about prowling bears. A hot, dry summer and forest fires increased the chance of run-ins with bears seeking food. Preparing to hibernate, the bears became more aggressive in their search. Residents were advised to keep garbage under wraps, burn barbecue residue, feed their pets inside, and pick ripe fruit immediately. 16</p>	<p>A man from Kansas who was a volunteer severe weather spotter for the US National Weather Center was struck by lightning in his backyard just hours after buying 3 lottery tickets. On the way to his car after purchasing the tickets, he commented to a friend, "I've got a better chance of being struck by lightning than winning the lottery." 17</p>

QUIZ: According to Static Guard's research, which is the most static-prone city in Canada?

- 1) Edmonton
- 2) Toronto
- 3) Winnipeg
- 4) Whitehorse
- 5) Halifax

18

1836: "On the 7th of June we had a heavy fall of snow and on the following day the ice was the thickness of a penny piece on the water; but still nothing serious happened to dampen our hopes till the 19th of August when the ... frost blasted our prospects by destroying the crops." [Alexander Ross, Red River Settlement]

19

2009: A super-cell storm developed just south of Lake Huron and tracked northeastward for a remarkable 200 km. It produced straight-line winds from Windsor to northeast of Toronto, ON, and destructive tornadoes from Windsor to North Bay, ON. The day's weather produced at least 18 tornadoes—a record for the most tornadoes in 1 day in Canada.

20

1992: Snow began to fall in southern and central Alberta on the 21st, leaving as much as 60 cm by the time it ended on the 23rd. It was Edmonton's earliest snowfall since record keeping began in 1884. The weight of the snow broke tree branches, which downed power lines, and caused severe crop damage.

21

2005: A rare waterspout came within 0.5 km of the Olympic-training regatta racecourse in Kingston, ON. Officials suspended sailing and ushered 125 boats to shore. The spectacular twister was about 6 m in width and sprayed water over 15 m before heading toward open water where it dissipated. The regatta chairman said that, in 40 years of sailing, he had never seen a waterspout in the Kingston harbour.

22

1880: The *Gladstone News* in Manitoba reported: "The season was unusually wet and the horses were wading through water most of the way. Jackfish and suckers were lying all over the prairie ..."

23

Night-time tornadoes are 2.5 times more likely to cause fatalities than tornadoes occurring during daylight hours.

24

(Answer on inside back cover)

Discovery Day (YT)

QUIZ: What colour hair is more susceptible to changes in relative humidity and therefore used in hair hygrometers?

- 1) black
- 2) blond
- 3) brown
- 4) grey
- 5) treated hair

25

2001: Rescuers came to the aid of a New Brunswick man and his 10-year-old son while the pair were windsurfing off Prince Edward Island. The two clung to their boards more than a kilometre from shore. Two swimmers braved the winds and strong currents and helped them to a sandbar where they were later rescued by firefighters.

26

1973: A hailstone weighing 290 g and measuring 114 mm in diameter—the largest ever documented in Canada—fell at Cedoux, SK. Its mass on impact was estimated at 450 g.

27

2002: The grueling 595-km Frontier Adventure Race is an "extreme" trekking, mountain biking, and canoeing competition through Yukon wilderness, in part along the Old Dawson Trail. This year, 2 days of rain created mud so thick that huge clumps stuck to participants' shoes with every step. To progress along the trail, they had to throw and pick up their bikes, a metre at a time.

28

1583: Canada's first recorded marine disaster took 85 lives when the *Delight* was wrecked on Sable Island, NS, during a storm. Gale-force winds, blinding rain, and dense fog accompanied the storm. Wicked currents and huge waves made navigation impossible. The force battered the ship's top deck as it struck one of Sable's sandbars.

29

1998: Members of Helio's Nudist Club near Tofield, AB, were enjoying the summer-long heat wave, going 24 hours without clothes. The only downer was the mosquitoes. Besides sunscreen, the sun worshippers used gallons of bug repellent.

30

An 8% increased risk of developing a headache follows whether it is in the cold of winter or the heat of summer. Of all the factors explored, for more than 7,000 patients, higher air temperatures in the 24 hours prior to the hospital visit were closely associated with headache symptoms.

31

(Answer on inside back cover)

New Moon

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SEPTEMBER 2019

Sunday

Monday

Tuesday

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Thursday

Friday

Saturday

<p>QUIZ: In North America, which weather extreme causes more fatalities?</p> <p>1</p> <ol style="list-style-type: none"> 1) hurricanes 2) tornadoes 3) lightning 4) flooding 5) heat waves <p><i>(Answer on inside back cover)</i></p>	<p>1984: Eight confirmed tornadoes were reported on the Labour Day weekend in Ontario's tornado alley—Windsor to London. As the news spread, residents who were away for the weekend rushed home. One homeowner had been watching the Canada Cup hockey game in Fergus, ON, when news of the tornado flashed on the screen. He left immediately and found his house had suffered a direct hit.</p> <p>2</p> <p>Labour Day</p>	<p>1910: A cigarette-smoking harvester tossed the glowing end of his cigarette into the grass. A stiff breeze fanned the flames, which in turn burned the 24 hectares of standing wheat on a farm near Kemnay, MB. Neighbours saved their fields by hurriedly ploughing fireguards.</p> <p>3</p>	<p>1995: A Labour Day thunder and lightning storm woke many Victorians (BC). The noise was loud enough to start dogs howling and send cats running for cover. Thunderstorms are not a common occurrence in the Victoria region, numbering about 3 each year.</p> <p>4</p>	<p>2000: A Calgary massage therapist offered free services to dogs who survived the tornado that hit the Pine Lake campground in Alberta. The therapist told the <i>National Post</i>, "Dogs will exhibit signs of stress and bad behaviour as a result of the July 14 storm." Symptoms can include irritability and misbehaviour. She used therapeutic touch and massage to encourage relaxation and recuperation.</p> <p>5</p> <p>First Quarter</p>	<p>1939: A severe thunderstorm raged over St. Benoit, QC. During the loud storm, a road-making machine backfired several times. All this occurred 5 days after Nazi planes started bombing Poland. Word spread quickly among villagers that enemy planes were dropping bombs while on their way to raid Ottawa, ON. During the noisy storm, about 50 people rushed from their homes and spent up to 3 hours hiding in fields.</p> <p>6</p>	<p>Earned runs allowed (ERA) by home-team pitchers were lowest on clear days at 3.93, climbing to 4.36 on cloudy days. Hitters prefer a little cloud, with less glare. Home teams batted 0.266 on cloudy days, but their batting average dropped to 0.259 on clear days.</p> <p>7</p>
<p>QUIZ: According to NASA scientists, owing to summer particulates from vehicles and factories, on which day of the week does it rain more?</p> <p>8</p> <ol style="list-style-type: none"> 1) Saturday 2) Monday 3) Sunday 4) Tuesday 5) Friday <p><i>(Answer on inside back cover)</i></p>	<p>1907: A telephone work crew laying a new phone line between Lethbridge and Calgary, AB, found 25 poles broken off 2 m from the ground, as though a hurricane had passed over the spot. That morning, only a light dusting of snow, with light winds, had occurred. Neither the snow nor the wind could account for this peculiar affair.</p> <p>9</p>	<p>1998: A break in the weather finally allowed divers at the scene of Swissair Flight 111 off Nova Scotia to attempt to retrieve victims and the telltale cockpit voice-recorder of the doomed flight. Strong winds and waves had kept deep-sea divers out of the water at Peggy's Cove since they had recovered the flight data recorder on September 6.</p> <p>10</p>	<p>1995: A monster 29-m wave slammed into the <i>QEII</i> as it crossed the Atlantic. The wave—caused by the seas being whipped up by Hurricane <i>Luis</i>—hit the ship at 02.05 hours off the coast of Newfoundland. Maximum winds at the time were 210 km/h. At 29 m, the waves were the height of an 11-storey building! Officials applied for an entry in the <i>Guinness Book of World Records</i>.</p> <p>11</p>	<p>2002: <i>Gustav</i> was the first Atlantic hurricane this year and the first to make landfall in Nova Scotia in 6 years. The hurricane caused power outages, downed trees, and flooded property. Fortunately, <i>Gustav's</i> storm surge arrived 4 to 5 hours shy of high tide. Had it hit at the tide's peak, an additional 70 cm of water would have inundated the downtown core of Charlottetown, PE.</p> <p>12</p>	<p>1984: The day Pope John Paul II visited Moncton, NB, a cold mist sprinkled the 100,000 faithful gathered at Magnetic Hill for an open-air service. Just before his arrival, torrential rain fell, which ended before the mass began but turned the area into a giant mud bog. Ruts created by heavy machinery preparing the site turned into puddles. Planks laid across the ruts acted as bridges for spectators.</p> <p>13</p>	<p>The three foods people buy most before hurricanes, blizzards, or big storms are cookies, cake, and candy.</p> <p>14</p> <p>Full Moon</p>
<p>QUIZ: With the annual average rain, snow, and hail that falls on Canada each year, how many years could the supply keep Niagara Falls flowing?</p> <p>15</p> <ol style="list-style-type: none"> 1) 1 year 2) 10 years 3) 25 years 4) 35 years 5) 72 years 	<p>1998: A big cougar was discovered wandering inside a downtown building in Victoria, BC. An employee managed to trap the 3-year-old malnourished cat. It was the 6th cougar sighting in Victoria in the past 3 days. The extremely dry summer had made it difficult for animals to find enough food in the wild.</p> <p>16</p>	<p>1895: At Sarnia, ON, one of the wildest thunderstorms in years occurred. Lightning set ablaze many barns. The waters of Lake Huron receded by more than 1 m, rose in a few minutes to 1/3 m above the usual water level, and then went up and down—a classic Great Lakes seiche.</p> <p>17</p>	<p>2007: A highly localized "sniper storm" cut through parts of British Columbia's Lower Mainland. The combination of a small, cold pool of air wedging up a layer of warm, humid air triggered a rare west coast thunderstorm. It shut off power to 4,000 homes and flooded 4 buildings on a school campus. Students milling around said staff were concerned about the effect the water would have on computers.</p> <p>18</p>	<p>2006: The largest caribou herd in the Northwest Territories continued its precipitous decline. The Bathurst herd had 472,000 caribou 20 years ago; this year it had 128,000. The decline was attributed to severe ice that left a hard layer of snow cover and reduced the caribou's ability to feed, as did the constant harassment of a bumper crop of mosquitoes, produced by unusually wet years.</p> <p>19</p>	<p>1932: A severe rainstorm in New Brunswick caused 3 spans of the Upper Dorchester Bridge over Memramcook River to collapse in the wind and waves. The bridge had been rebuilt in 1924–25 after being destroyed by high tides during World War I. The fall freshet produced the worst flooding in years.</p> <p>20</p>	<p>1922: In 1922, while visiting her brother in Maine, a woman who had been totally blind for 15 years was struck by lightning and burned. In the midst of the excitement, she suddenly cried out, "Oh, I can see!" Her sight was restored.</p> <p>21</p>

<p>QUIZ: What do Britons call warm dry spells no matter when they occur?</p> <p>1) Queen's weather 2) Sahara days 3) Indian summers 4) bee's knees 5) pip, pip, and away</p> <p><i>(Answer on inside back cover)</i></p>	<p>22 1930: Winnipeg was virtually swallowed up in a day-long dust storm, much to the discomfiture of citizens. At times, thick clouds of dust obscured the sun from view. The winds didn't cause much damage, just shook a few awnings, shifted some objects, made scary strilling sounds around buildings, and strummed telephone and trolley wires.</p> <p>Autumn Equinox 3:50 EDT</p>	<p>23 2007: Summer hailstorms on the Prairies pulverized crops. The Canadian Crop Hail Association reported: Alberta recorded 4,700+ claims, with payouts over \$60 million (27% more than collected from premiums); Saskatchewan had 14,000 claims, above the 5-year average but fewer than in 2006, with some \$115 million paid out; Manitoba claims topped \$14 million, shattering the \$10.6 million record (2002).</p>	<p>24 1964: Gale-force winds, freezing rain, and rain caused havoc in southern Alberta. At Brooks, several tonnes of drilling pipe dropped from a rig onto a work hut, crushing to death a worker and injuring 3 fellow workers in the hut. The rig is known to have withstood winds up to 160 km/h. The storm also blew sheets of plywood around, destroying property, sheared off the heads of parking meters, and ripped off windshield wipers.</p>	<p>25 2002: More than 49 vehicles, including 7 tractor trailers, were involved in a massive pile-up east of Montreal that killed 1 and injured 17. The early morning mishap was caused by a combination of fog and blinding sunshine. At this time of year, cooler night temperatures combine with moisture from the river, resulting in thick, soupy clouds that obscure everything.</p>	<p>26 2009: This was the wettest season on record on Cape Breton Island, NS. Sydney, NS, recorded 456 mm of rain compared to a normal amount of 273 mm. Instead of 3 or 4 heavy rainfall events (> 25mm), this summer featured 9. Among them were Hurricane <i>Bill</i> that dumped approximately 54 mm of rain and post-Tropical Storm <i>Danny</i> that brought a total of 105 mm to some parts of the island.</p>	<p>27 28 A "trace" of rain is less than 0.2 mm, yet if collected from an area the size of the Greater Toronto Area, it would weigh more than 1,000 tonnes.</p> <p>New Moon</p>
<p>QUIZ: Which of these cities is the driest?</p> <p>1) Athens 2) Los Angeles 3) Salt Lake City 4) Minneapolis 5) Kelowna</p> <p><i>(Answer on inside back cover)</i></p>	<p>29 30 1920: Eda Owens took over from her husband as the official weather observer in Edmonton, AB. Her job was to receive reports from 142 weather stations across the province and the North. Eda, who couldn't resist giving out forecasts if asked—though headquarters did not encourage this—became Edmonton's weather lady in local and national news reports. Dignitaries from all over the world visited her office.</p> <p>Rosh Hashanah</p>	<p>1 Weatherman ... You're Fired! According to Radio Free Europe, the Turkmen president-for-life fired the head of his meteorological service for "giving us the same old weather forecasts every day." In 2005, the head of the Romanian National Meteorology Agency was fired after he predicted warm weather on days when temperatures plunged to record lows.</p>	<p>2 Don't Threaten Weather Persons A farmer attacked a forecaster in Little Rock, AR, and shouted, "You're the one that sent the tornado and tore my house up." The guy backed off only when the meteorologist threatened to send another tornado his way.</p>	<p>3 You May Get What You Pray For In June 2001, the governor of Louisiana led his drought-ravaged state in a prayer for rain. Tropical Storm <i>Allison</i> answered the call by dumping humongous rains between New Orleans and Houston, TX, most of it in less than 12 hours.</p>	<p>4 Honeybees Sniff Out Bombs but Not During Storms Scientists in the Pentagon trained honeybees to sniff minute traces of explosives as part of a swarming detection system used to find truck bombs, land mines, and other hidden explosives. The bees have limitations, though. They do not work at night, during storms, or in cold weather.</p>	<p>5 Thunderstorms Linked to Asthma Researchers found that the number of asthma patients visiting hospitals increased by 3% after thunderstorms. They suggested that after the storms, pollen grains rupture as they come into contact with rainwater, releasing respirable allergens into the air.</p>

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OCTOBER 2019

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31							

Sunday

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

<p>Greatest Temperature Range 29</p> <p>The difference between the coldest (-89.2°C) and the hottest (56.7°C) temperatures ever recorded on Earth is 146 degrees; the absolute temperature range in Canada is 108 degrees.</p>	<p>Stink over Tax 30</p> <p>One thousand New Zealand farmers descended on their Parliament to protest a proposed tax on methane gas emissions from sheep and cattle. The farmers launched a campaign called Fight Against Ridiculous Taxes (FART). Scientists estimate that methane emitted by farm animals is responsible for more than half of New Zealand's greenhouse gases.</p>	<p>1923: A storm with strong northeasterly winds above 110 km/h pounded Atlantic Canada. Coupled with high tides, the storm destroyed at least 60 bridges in Prince Edward Island.</p>	<p>1934: Early winter squalls, freezing temperatures, and icebergs prevented the Catholic mission ship <i>Pius XI</i> (coated in 5 cm of ice) from resupplying Igloolik, NU, the church's northernmost mission. All efforts had proved futile, and there had been no word for 18 months from the priest who was ministering to the Indigenous residents. Food had to be taken overland to Igloolik Island.</p>	<p>1922: It was unusually cold in Edmonton, AB, with below freezing temperatures, but it was especially cold at the police station. Prisoners were wrapped in blankets. The station's basement and furnace room were stacked to the ceiling with cases and barrels of "real" beer. The police had been ordered not to light the furnace, lest it spoil the beer, which was evidence in a case.</p>	<p>1610: From the weather log of John Guy, sent to Canada by the Newfoundland Company to govern its plantation: "A hot and most fair clear sunny day. We have found the weather since our coming so temperate as in England and rather better ... our company is much confirmed in a good concept of this climate, seeing that the weather [has] proved contrary to [its] fame."</p>	<p>5</p> <p>If your name is Quentin, Ursula, Xen, Yolanda, or Zack you will never have an Atlantic hurricane named after you. The letters Q, U, X, Y, and Z are not used in naming hurricanes because of the scarcity of names beginning with these letters.</p> <p>First Quarter ●</p>
<p>QUIZ: What is the only hurricane name to be retired twice? 6</p> <p>1) Mitch 2) Luis 3) Hugo 4) Camille 5) Hazel</p> <p>(Answer on inside back cover)</p>	<p>2005: Public Works Canada refurbished the black weather vane atop the historic Library of Parliament in Ottawa, ON. When stripped of its wrought-iron paint, the vane's original blue colour was revealed. The vane was restored to that shade of blue, much to the delight of Conservative Party members. They liked the bold Tory blue, even though Public Works called it aquamarine. 7</p>	<p>2009: A frozen football would not be an excuse for the BC Lions when they faced the Edmonton Eskimos that weekend. The forecast called for snow and a -10 wind chill. On the final practice, the BC Lions played with frozen footballs cooling in a freezer full of ice. The quarterback remarked that tossing the frozen football felt and looked like he was throwing a "15-lb salmon" instead of a football. 8</p>	<p>1867: The <i>Great Labrador Gale</i> was one of the worst storms recorded on the Labrador coast. Thirty-seven lives and 27 vessels were lost. The famous Captain William Jackman rescued 27 people, mostly women, from certain death aboard the <i>Sea Clipper</i>. Twenty-seven times he waded into the icy gulf waters and carried each and every one of them to safety on his back. 9</p> <p>Yom Kippur</p>	<p>1949: A 100-km/h gale toppled trees onto power lines, plunging Geraldton, ON, into darkness. On the curling rink's stage, 4 young musicians were in the middle of Schubert's "Serenade" when the lights went out. Said one, "I kept right on singing for the next few bars, but then remembered my accompanist couldn't see her music." Foresighted concertgoers shone flashlights and the concert went on. 10</p>	<p>1851: A disastrous gale swept over Lake Erie, costing numerous lives. The brig <i>Christina</i> of Sarnia, ON, was thrown on her beam-ends and, when boarded, the corpse of the captain was found lashed to the mast. Nine crewmembers also met a watery grave, but the vessel's cargo was saved. 11</p>	<p>12</p> <p>About 10 people in North America were killed by hail during the 20th century, none of them in Canada.</p>
<p>QUIZ: Hurricane <i>Hazel</i> was one of the most written about weather events in Canadian history. It inflicted its most deadly force on: 13</p> <p>1) Canada 2) Haiti 3) Cuba 4) Dominican Republic 5) United States</p> <p>(Answer on inside back cover)</p>	<p>1901: The CPR steamer <i>Hating</i> set out from Skagway, Alaska, with 175 passengers and a large load of treasure. Near Texada Island, BC, she encountered dense fog, ran onto rocks in the channel, and settled with a large hole in her bottom. The ship's pilot and 2 sailors left immediately to get help. On reaching Vancouver, they alerted officials and two steamers were sent out to assist the <i>Hating</i>. 14</p>	<p>1954: Hurricane <i>Hazel</i> made its way across the Lake Ontario basin on the 15th and 16th. Toronto received 214 mm of rain during 72 hours. Eighty people lost their lives, and wind and flood damage exceeded \$25 M. 15</p>	<p>1876: A severe Atlantic storm ravaged parts of the Maritimes. The <i>Reeves</i>, an American schooner, struck the northwest side of Sable Island, NS. All hands were lost. The <i>Lily</i>, with a cargo of cordwood and potatoes, capsized off Cape St. Mary's, NS. Two of the crew held on to the deck, and succeeded in reaching the shore alive—bruised, bleeding, and chilled almost to death. 16</p>	<p>1936: A group of hunters from West Virginia faced a 16-day battle with sudden blizzards in the Muskwa River Valley of northern British Columbia. The men set out on horseback through snow up to the stirrups, facing screaming gales and crusted snowdrifts. Through the Sikanni Pass, several packhorses slid 40 m down the mountain before they were rescued with ropes. 17</p>	<p>2001: Owing to milder weather, the Asian lady beetle appeared in record numbers across Ontario at homes and cottages. The Asian ladybugs were introduced in the US decades ago to control aphids. The insects are more aggressive than the native ladybugs. There are no known predators or parasites. During the fall they are more likely to invade homes in search of a warm place to spend the winter. 18</p>	<p>19</p> <p>Tornadoes move across the land at an average speed of 50 to 70 km/h, and the air speed inside a funnel can reach as high as 500 km/h.</p>

QUIZ: In the book/movie *The Perfect Storm*, what was the name of the storm?

20

1933: Foul weather destroyed two vessels transporting tonnes of groceries, fuel, and other supplies in the ice-infested waters along the Arctic coast in the Northwest Territories. A fire onboard forced survivors to launch a lifeboat. In sub-zero weather and a terrible gale, the boat drifted for two days before reaching land. Three men with four dogs set out for Cameron Bay but were forced back by the ice.

21

1999: A hot, dry spring in Prince Edward Island was great for planting, but near-drought conditions occurred in June and July. In some areas, farmers had to buy irrigation systems. In the fall, when farmers counted on dry weather, hurricane tailspins dumped huge rainfalls. Potato crop losses were estimated at 25% across the province because many potatoes were left in soggy fields.

22

1943: The Germans set up a secret automatic weather station at the northern tip of Labrador to radio pressure, temperature, and wind data to U-Boats prowling the Atlantic shipping lanes.

23

1846: Lightning struck the Episcopal Church on Butler's Hill in Yarmouth, NS, and set a steeple on fire. The lighthouse at the Cape was struck at the same time but was only slightly damaged. Previous to the lightning, a huge thick cloud settled over the town. It was so dark that candles were used in offices and homes at noon.

24

1918: The *Princess Sophia* sank after grounding on Vanderbilt Reef off the BC coast on the 23rd. High seas, low visibility, and 90 km/h winds prevented rescuers from reaching the ship. All 343 on board perished. The only survivor was an English setter who swam ashore.

25

Decreases in Great Lakes water levels over a 12-month period, from 1998 to 1999, represented a total water loss of 105 cubic km—enough water to supply Niagara Falls 24 hours a day for 553 days.

26

(Answer on inside backcover)

Last Quarter

QUIZ: Fifty years ago, which day of the week was deemed the most important day to get the forecast right?

27

1998: On this day, police across BC's Lower Mainland geared up for Halloween by adding staff and praying for rain. With Halloween falling on Saturday, police were anticipating more problems than usual. Rain means fewer people outside, leading to fewer potential emergencies or disasters. The fact that many people wear masks makes it easier for robbers to do holdups. And, yes, it rained on Halloween—6 mm.

28

1902: One of the most celebrated mail carriers in Yukon came close to losing his life in an ice jam that blocked the Yukon River about 16 km below Fortymile, YK. By the time the mail carrier noticed the jam, it was too late to steer his heavy boat toward the riverbank. The loss of the mail, however, distressed him far more than his own narrow escape.

29

1917: Hearing the door of an outbuilding slamming in the wind, a farmer from Clinton, PE, ventured out to fasten it. As he finished the job, the entire building came down on him breaking his leg. He might have died had not a terrific gust blown up immediately and lifted the debris.

30

2006: In Winnipeg, MB, 100 fans braved a -12 wind chill to see an escape artist's tribute to Harry Houdini, who died 80 years ago today. Wrapped in chains, locks, and handcuffs and submerged in 2 tonnes of wet cement in a phone-booth-sized box, he escaped in about 3 minutes. The locks were hard to work because the cement had gummed them up and the sub-zero weather had frozen his hands.

31

Whining about the Weather Is Good for You
A psychologist with Clemson University in South Carolina says occasional complaining about the weather can be good for you if it is strategic. When asked to list their pet peeves, women's lists were four times as long as men's. She claims people feel better after complaining because it helps them save face.

1

Weekend Rain Effect
Using 9 years of satellite data, a NASA scientist discovered it is less likely to rain on the weekend than during the workweek. The so-called "Weekend Effect" is a consequence of fewer raindrop condensation nuclei in urban smog. Further, weekday storms were more likely to be downpours.

2

(Answer on inside back cover)

New Moon

Halloween

OCTOBER

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NOVEMBER 2019

Sunday

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

<p>First Day of Precipitation the Deadliest 27</p> <p>Researchers concluded the risk of traffic fatalities rose on the first wet day after a dry spell. Further, the first snowy day of winter was more dangerous than any other day in terms of deadly crashes, especially among seniors.</p>	<p>"Wobbly" Dog Syndrome 28</p> <p>A Toronto, ON, veterinarian suspects that dogs experiencing drunken wobble symptoms has something to do with balmy and open winters. Unseasonable warmth and scanty snow cover often expose mouldy and semi-decomposed grass clippings and leaves that produce toxins. When ingested, this can cause wobbliness and seizures. Similar seizures occurred in dogs that ate marijuana.</p>	<p>The Finger 29</p> <p>Snowblowers are the fourth leading cause of finger amputations in Canada, after power tools, door finger jams, and disease.</p>	<p>Canada's First Weather Person 30</p> <p>One might consider Jean-Francois Gaultier to be Canada's first weather person. Gaultier was a physician in Quebec City (QC) in the mid-18th century. He set up the first weather station in Canada and kept a twice-daily meteorological log, including temperatures, the state of the sky, precipitation, and wind direction. Gaultier even noted an earthquake in Quebec on May 16, 1744.</p>	<p>Snowflakes the Size of Saucers 31</p> <p>The biggest snowflake recorded in Canada fell in Halifax, NS, on February 22, 1986. Tiny by world standards, the 6-sided crystal measured 5 cm in diameter. In the US, huge snowflakes the size of "milk pans," measuring 38 cm across and 20 cm thick, dropped near Fort Keogh, MT, in 1887.</p>	<p>2000: Joe Clark's election campaign bus rolled up to the Confederation Park Bridge in Prince Edward Island, where he had hoped to use the picturesque span to drive home his message of a united Canada. But, alas, no bridge was in sight. It was so shrouded in fog and rain that Clark had to settle for a photo opportunity in front of a picture of the bridge in the adjacent tourist centre.</p>	<p>2</p> <p>A large avalanche consisting of 1,000 tonnes of snow and other debris travels at 200 km/h.</p>
<p>QUIZ: Which of these American cities is the windiest? 3</p> <ol style="list-style-type: none"> 1) New York 2) Boston 3) Chicago 4) Phoenix 5) Dallas <p><i>(Answer on inside back cover)</i> Daylight Savings Time Ends</p>	<p>2003: A persistently cold northerly flow over much of British Columbia shattered dozens of low-temperature records. In the Interior, it was the coldest start to November in years. At Kelowna, it was -13°C, about 5 degrees colder than it gets in January, the coldest time of the year, and cold enough for some vineyards to harvest ice-wine grapes.</p> <p>First Quarter ●</p>	<p>2001: The temperature soared to 17.1°C in Winnipeg, MB. Many residents spent the day roller-blading and playing Frisbee. One firefighter decked in shorts, sunglasses, and ball-cap said he was staying outside until the mosquitoes came back. There were 1-hour line-ups at golf courses.</p>	<p>2000: The Canadian Alliance Party was shy by 2 candidates in its quest to field a full slate of 301 in the November 27 federal election. It nominated 301 candidates, but they had to fax formal papers to Election Canada by 2 p.m. today to get on the ballot. Bad weather prevented the Nunavut candidate from flying to Rankin Inlet, where he was to file his papers.</p>	<p>1994: New Brunswick's worst windstorm in 25 years, with gusts up to 100 km/h, tore through forests, leaving downed trees in a tangled mess. Foresters estimated the winds felled 1 million cords of wood worth about \$10 million, enough wood to keep a large pulp mill going for a year. At Woodbine in Toronto, ON, races were cancelled because winds were blowing horses sideways.</p>	<p>2007: A rare and very loud clap of cold-weather thunder awoke residents on the south side of Winnipeg, MB. Although thunder has been observed officially at the city's airport in every month of the year except February, cold-season thunder has been reported only 5 times in the past 50 years.</p>	<p>9</p> <p>If all the ice in Greenland and Antarctica melted, oceans would rise by more than 60 metres.</p>
<p>QUIZ: What is a cyclonette? 10</p> <ol style="list-style-type: none"> 1) small local whirlwind 2) female version of a cyclone 3) tornado that spins in a clockwise direction 4) storm size between a microburst and a macroburst 5) family or cluster of weather disturbances 	<p>1996: Large free-floating ice chunks ground the Fort Providence ferry to a sudden and unexpected halt, severing ground access to Yellowknife, NT, and several other communities for 6 days.</p>	<p>1912: The paddlewheel steamer <i>Mayflower</i> sank in Lake Kamaniskeg, ON, during a blinding snowstorm. It had been transporting the body of a dead man to Combermere. Three survivors clung to the coffin in the icy waters and floated ashore. Nine others aboard the steamer died.</p>	<p>2005: The battered remains of an American boat showed up off the coast of Halifax, NS. A month ago, its owner-sailor, caught in the stormy remnants of Hurricane <i>Wilma</i>, abandoned it when it was swamped by huge waves. Canadian and American coast guard officials launched a search and rescued the sailor 2 days later. Meanwhile, vandals stole the sailboat's mast and gear, worth about \$6,000 in all.</p>	<p>2000: Winds gusting over 40 km/h toppled a scaffold under the Ambassador Bridge spanning the Detroit River between Windsor, ON, and Detroit, MI. One worker plunged to his death in the icy waters. The US Coast Guard rescued 3 others. The hundreds of onlookers burst into cheers and applause when Windsor firefighters safely hauled in the last man dangling from the bridge.</p>	<p>2006: November had brought rain, wind, and high tides to the British Columbia coast but today's storm was the worst in 2 years. About 200,000 were without power and a steel building frame collapsed. Over 150 mm of rain in 15 hours caused numerous landslides that muddled 3 Vancouver reservoirs and forced Canada's 3rd largest city to issue a boil-water advisory, the broadest in Canadian history.</p>	<p>16</p> <p>How much warming has occurred seasonally in Canada from 1948 to 2017: winter 3.4°C; spring: 1.7°C; summer 1.5°C; fall 1.7°C.</p>

QUIZ: Which among these is nature's deadliest in North America?

17

1929: An undersea 7.2 earthquake off the Grand Banks (NL) triggered a tsunami that killed 27 people on Burin Peninsula and left the harbour filled with fat, green, now useless cabbages from a surplus summer harvest. Potatoes, salt cod, herring, salmon, barrels of pork and beef, jams and pickles, and firewood for winter were also lost, as were fishers' boats, nets, hooks, and salt.

18

2009: Unseasonably warm, dry weather enabled producers around Saskatchewan to harvest 97% of the 2009 crop. More harvesting was done in the first 10 days of November than in the whole month of October. An additional blessing was warmer and drier conditions drying some of the crop. Farmers were busy with combining, drying grain, baling straw, hauling bales, cleaning corrals, and rounding up cattle.

19

1900: In praise of chinook winds: "Without [them] ... we could [not claim to be] a stock raising and grazing district without peer in Northwestern America ... our herds know not what a stable is [for] their home is the ... prairie ... The ... winds evaporate the snows ... so [they] graze in mid-winter as in mid-summer. Last week, a chinook came after ... 11 days [of frost]—a moderating 27° in 1 hour."

20

2006: Yellowknife, NT, had already had its snowiest November ever. The earliest municipal snow-removal operations on record began today. By month's end, 98.2 cm of snow had fallen, swallowing the previous record of 61 cm in December 1974. Crews worked overtime to clear streets and parking lots, using crushed rock and salt on icy surfaces. Sales of skis and outdoor gear were brisk.

21

2002: Wet weather and freezing temperatures overnight combined to turn parts of Winnipeg, MB, into a giant skating rink. The slippery conditions spelled chaos for pedestrians and motorists, resulting in broken bones, sprains, and crumpled fenders. People with steep driveways woke up to find their cars out on the street. Residents of retirement homes were told to stay indoors.

22

If all the clouds surrounding the Earth were squeezed of their water, it would produce enough to cover the planet to a depth of 2.5 cm.

23

(Answer on inside back cover)

QUIZ: Most official weather observations are taken from airports. Which comedian uttered the now-famous line, "but who lives at the airport?"

24

1997: Canada's environment minister pressed a computer button in Ottawa, ON, to power up 2 giant wind turbines 2,500 km away in southern Alberta. The 3 blades on each 40-m tower near Pincher Creek started slicing through the air, producing wind power that will supply all of Environment Canada's electricity needs in Alberta for the next decade.

25

1995: Thieves broke into a small environmental consulting business in Burlington, ON. The moon was not full, and the temperature was only -1°C. The discriminating thieves stole office equipment and all copies of *The 1996 Canadian Weather Trivia Calendar*, meant as gifts for clients.

26

2005: The Lake Louise, AB, ski patrol rescued skiers, some children, trapped for more than 5 hours in a gondola stalled high above the resort. Like a James Bond stuntman, a patroller zipped along a cable with a pulley-type system, entered the gondola, hooked harnesses around the occupants, and lowered them to the ground. It was scary and cold, and the wind swayed the car, said a 10-year-old boy.

27

1906: An RCMP dog-sled patrol member doubled back to Fort Churchill, MB, to pick up a box that had fallen off the sled. The temperature fell to -32°C, and winds howled at 100 km/h. Days later his body was found about 9 km from the original camp. He had worked his way back but missed the final turn. Tracks showed that 3 times his dogs had tried to turn into the campsite, but he thought they were wrong and kept going.

28

2006: A couple from Red Deer, AB, used weather data from Scarborough, ON, to pick Lotto 6/49 numbers and took home \$14 million. The winners researched temperature, humidity, and snowfall on Lotto 6/49 draw nights in Scarborough, where the numbers are drawn. This time the weather paid off.

29

Of all the fresh water in the world, about 2/3 of it exists in the form of ice.

30

(Answer on inside back cover)

					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

DECEMBER 2019

			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<p>QUIZ: What do the words "Squamish" and "Yoho" have in common?</p> <p>1</p> <p>1) names of weather stations in Canada 2) names of snowmobile models 3) mascots of the Meteorological Service of Canada 4) names of winds in Canada 5) names of Canadian weather ships</p> <p><i>(Answer on inside back cover)</i></p>	<p>1995: While on an outing, 2 young offenders escaped from a Barrie, ON, facility. However, the duo turned themselves in within a couple of hours. Apparently, life on the lam was too cold (-13°C) and snows too deep for them. Authorities commented that had it been June or July, the culprits probably would have been out for good.</p> <p>2</p>	<p>1931: Five Scottish adventurers seeking riches from the fur trade sailed to Frobisher Bay (Iqaluit, NU, in the summer of 1930. There, their vessel was dashed to pieces on the rocks. They found refuge in an abandoned Inuit camp and barely survived on a steady diet of walrus meat. Indigenous hunters eventually rescued the 5 in December.</p> <p>3</p>	<p>2000: The <i>Toronto Sun</i> reported that Saskatchewan farmer Gus Wickstrom offered his services in pinpointing when major storms would hit Toronto this winter. All he asked was that a fresh pig spleen, slaughtered in Toronto, be shipped to him. He claimed 80 to 95% accuracy, much better than weather forecasters. He just bites down on the spleen. "If it's firm, then it'll be chilly."</p> <p>4</p> <p>First Quarter</p>	<p>2007: A 21-year-old woman in Val-des-Monts, QC, died after a 40-cm snowfall. A temporary car shelter collapsed when she and her mother tried to clear snow from the carport's roof by tapping it underneath. Despite her mother's efforts to save her, she was trapped and suffocated beneath the snow and debris. The victim was a water skier who had represented Canada internationally.</p> <p>5</p> <p>Full Moon</p>	<p>1857: From the writings of Henry Youle Hind: "After our arrival at Red Lake Mission we learned the Roman Catholic missionary had frozen to death 2 days previously, in an attempt to cross the ice during a snow storm ... He had been visiting a camp of Ojibway, who warned him of the perils of a return across the ice during the storm, and invited him to pass the night in their wigwams ..."</p> <p>6</p>	<p>The earthquake-borne tsunami that devastated Asia's shores on December 26, 2004, released more than 2½ times the collective power of every bomb (from both sides) dropped during the Second World War.</p> <p>7</p>
<p>QUIZ: At Calgary in February 1988, for the first time in Winter Olympic history, an event was postponed because of:</p> <p>8</p> <p>1) avalanche 2) terrorist threat 3) chinook winds 4) blowing sand 5) rain</p> <p><i>(Answer on inside back cover)</i></p>	<p>2005: Canada's 1st winter general election in 25 years had some meteorological moments. On the Prairies, -40°C wind chills halted door-to-door canvassing and "permafrost" foiled the posting of lawn signs. In central Canada, candidates faced poor driving conditions and election signs buried in snow. Bad weather at Windsor, ON, diverted NDP leader Jack Layton's campaign plane to Ottawa for 11 hours.</p> <p>9</p>	<p>1903: A <i>Calgary Herald</i> editorial complained that the British stereotyped Canada as a frigid country. Every sketch about Canada in British schoolbooks featured snow and ice. Statements like "milk in winter is sold in blocks like soap" must be purged to avoid the "libelling of the country's climate," read the editorial. It advised English publishers to visit Canada before revising their books.</p> <p>10</p>	<p>1944: At Toronto, ON, the 1-day snowfall of 48.3 cm was the greatest on record. Funerals were postponed, expectant mothers walked to hospitals, and there were no home deliveries of milk, ice, or fuel. Symphony patrons showed up for a concert in snowsuits and boots instead of furs and jewels. The performers were the Trapp Family Singers, virtually unknown at that time.</p> <p>11</p>	<p>1843: Lightning struck a farmhouse at Speke, PE. The "electric fluid" entered a window and crossed near a sleeping farmer, knocking out several teeth and singeing his hair. The flash blackened the walls, perforated clothes, and shattered a chest of drawers. Lightning also tore up the floor of the milk house, smashing vessels filled with cream, but did not touch the crockery on the shelves.</p> <p>12</p>	<p>1999: The RCMP in Prince George, BC, investigated an incident of road rage when a driver attacked a snowplough with a hammer and punched the driver. He smashed out the plough's headlights and the driver's side window then attacked the windshield before fleeing. The hammer-wielding man claimed that stones from the plough had struck his windshield.</p> <p>13</p>	<p>A British social scientist studying Facebook texts concluded that people comment about the weather more and more as they get older.</p> <p>14</p>
<p>QUIZ: A low-pressure system undergoing extremely rapid intensification (exploding) is called?</p> <p>15</p> <p>1) bombogenesis 2) outbreak 3) depression 4) occlusion 5) tempestation</p>	<p>1981: Search-and-rescue personnel assisted 5 crew members from an empty liquefied natural-gas tanker off Nova Scotia's southwestern tip. The towline had snapped as the ship was being pulled to Halifax from Boston, MA. Winds in the area were blowing from 100 to 160 km/h, and the seas were as high as 13 m. Five days later, 5 tugboats freed the grounded ship and towed it to Halifax.</p> <p>16</p>	<p>1997: A water-skier from Prince George, BC, braved 0°C temperatures under bright sun with just a bit of a breeze to take a short water ski run up and down the Nechako River. The boy skipped school to carry on a family tradition started in 1980, when warm December weather prompted the boy's father to suggest water skiing in December.</p> <p>17</p>	<p>1933: A woman had a terrifying experience when the ice-filled waters of the Nechako River in Prince George, BC, swept over her farm property. For half a kilometre around the house there was a sea of water carrying hummocks of ice, leaving her no escape route. It took more than a day to reach her by boat. She suffered severely from exposure and frostbite.</p> <p>18</p>	<p>2004: Strong, gusty winds blew apart the log boom north of Traders Cove Park on BC's Lake Okanagan, scattering an estimated 1,500 truckloads of floating logs. The next day, winds calmed, enabling tugboat operators and shore crews to contain most of the logs, thus minimizing the risk to homeowners. Still, several private docks suffered extensive battering.</p> <p>19</p>	<p>1942: It was cold in Fort Selkirk, MB, with temperatures below -40°C. When a woman went outside to check her dog, "Sheep," a big black head emerged from the kennel doorway. Thinking it was someone else's dog, she tried to get rid of it with her broom. A huge gray wolf with a trap hanging on one foot stepped out. Old "Sheep" stood in front of his kennel as though to protect his friend.</p> <p>20</p>	<p>If you spray your shovel with aerosol cooking spray before shovelling, it makes the snow slide off more easily.</p> <p>21</p>

<p>22 QUIZ: Considering heat, cold, flood, drought, tornadoes, and tropical storms, which country has the worst weather on Earth?</p> <p>1) Bangladesh 2) Canada 3) United States 4) China 5) Australia</p> <p><i>(Answer on inside back cover)</i></p>	<p>23 1941: Ottawa instructed Toronto's meteorology office (ON) that wartime weather forecasts were over. From then on, wind speed and direction data and humidity and barometric readings were barred, except when a bad storm brewed near the Great Lakes. Public weather reports would be a forecast for weather about 20 hours ahead, previous day's temperatures, temperatures from a year ago, and daily record highs and lows.</p> <p>First Day of Hanukkah</p>	<p>24 1972: Bad weather forced a plane enroute to Cuba from Russia to touch down at Gander, NL. The delegation on board was headed by Cuba's Fidel Castro. After being treated to a steak dinner, the Cuban delegation toured Gander. Castro spied children tobogganing and joined them for a while. He took several tumbles, much to the amusement of his entourage and the curious children.</p> <p>Christmas Eve</p>	<p>25 2006: A hiker lost in a Vancouver Island (BC) park was rescued after making a last call on his dying cellphone. Search-and-rescue aircraft dropped 56 flares throughout the park. Rain, strong winds, and near-freezing temperatures hampered the search, and trails were obliterated by recent windstorms. Rescuers had to trek over and under downed trees, using chainsaws to get through the tangled mess.</p> <p>Christmas Day</p>	<p>26 2004: Climbers at Kluane National Park, YT, found a hypothermic adult moose that had fallen through thin ice at -26°C. They lifted him from the water, put warm water down his throat, and covered him with a tarp, leaving protective snow and a fire nearby. The next day, he was 100 m away eating willows. He put his nose on a rescuer's hand, as if to say thanks. [From Dave Rogers, <i>Ottawa Citizen</i>]</p> <p>Boxing Day New Moon</p>	<p>27 1999: It was so warm in parts of Alberta on the 27th and 28th (as high as 20.6°C in Claresholm) that grass fires broke out and trees sprouted leaves. It was hotter in Alberta than in parts of Mexico. People shed parkas for T-shirts; there was even a string bikini sighting on a ski hill in Edmonton, AB. In Saskatoon, SK, a barely frozen skating rink sprouted patches of green as temperatures hit 7.8°C.</p>	<p>28 Forecast predictability improves 1 day every 10 years.</p>
<p>29 QUIZ: Prior to the 20th century which one of the following meteorological elements was never used in a weather report?</p> <p>1) relative humidity 2) visibility 3) barometric pressure 4) snow depth 5) hurricane-force winds</p> <p><i>(Answer on inside back cover)</i></p>	<p>30 1992: A cold snap since Christmas Day left Edmonton, AB, enveloped in a thick, grey fog that formed when water vapour from heating systems turned into ice crystals in the frigid air. The ice fog was so thick in parts of the city that Edmontonians rarely saw the sun. One woman claimed, "It's so cold my hair spray froze on the way to work."</p> <p>Last Day of Hanukkah</p>	<p>31 2001: Summerside, PE, hosted its New Year's bash for 2,000 under a full moon, in temperatures of -7°C. Although it had tried to assemble the most kissing couples in one location for a place in the <i>Guinness Book of World Records</i> at previous New Year's Eve parties, this year's event was postponed to July 1. Many were worried about lips sticking from kissing in cold weather.</p> <p>New Year's Eve</p>	<p>1 Dog's Best Friend Fair of Foul Researchers at the University of Victoria found that dogs help motivate their owners to go for a walk even when the weather is foul. Visits to parks by people without dogs dropped significantly when the weather was bad. But visits by dog owners actually increased on wet winter days.</p>	<p>2 Bitter Cold Means Pricier Funerals Recent bitterly cold winters added another burden to families burying loved ones. Funeral home directors reported that cold weather in eastern North America added an extra \$200 during winter burials. Gravediggers needed jackhammers to claw deeper through frozen chunks of earth.</p>	<p>3 Christmas Calling According to telephone carriers, Christmas long-distance calling peaks between 10 a.m. and noon on December 25, with a second smaller surge between 4 and 6 p.m. The nicer the weather, the fewer long-distance calls.</p>	<p>4 Weather Modification's First Experiment In the 1830s, a highly respected scientist proposed a scheme to make it rain more. He tried to convince the US government to light massive fires along the Appalachian Mountains in order to create heated updrafts to initiate rain showers. He wanted to light giant woodlots every Sunday evening. Not surprisingly, the government rejected his proposal.</p>

WEATHER QUIZ ANSWERS

January 6: 4) Astana, Kazakhstan
January 13: 5) Alberta
January 20: 5) they won't freeze
January 27: 3) Russia
February 3: 3) snowstorm
February 10: 1) a small iceberg
February 17: 5) when the spread between night and day temperatures is less than 10°C
February 24: 1) film producer Norman Campbell
March 3: 1) wind
March 10: 5) middle finger
March 17: 5) fire cannons at the spout
March 24: Sunday
March 31: January
April 7: 2) Victoria
April 14: 1) 13 minutes
April 21: 4) Saskatchewan

April 28: 2) slow-moving
May 5: 4) fewer telephone landlines
May 12: 3) thunderstorms
May 19: 3) churches
May 26: 2) camping and hiking
June 2: 1) Yellowknife
June 9: 5) none of the above
June 16: 4) Penticton
June 23: New Brunswick
June 30: Canada
July 7: 3) Saskatchewan
July 14: 5) Canada
July 21: 1) Canada's Northwest Territories
July 28: 1) winter
August 4: 2) Windsor
August 11: 2) doesn't fall
August 18: 4) Whitehorse
August 25: 2) blond

September 1: 4) flooding
September 8: 4) Tuesday
September 15: 5) 72 years
September 22: 3) Indian summers
September 29: 5) Kelowna
October 6: 5) Hazel
October 13: 5) United States
October 20: 3) Hurricane *Grace*
October 27: 3) Monday
November 3: 2) Boston
November 10: 1) small local whirlwind
November 17: 4) rip tides
November 24: 5) George Carlin
December 1: 4) names of winds in Canada
December 8: 4) blowing sand
December 15: 1) bombogenesis
December 22: 3) United States
December 29: 2) visibility