



MAP EXPLANATION

- NORTHWEST AIRLINES STOPS
- PROPOSED ROUTES
- ROUTES GRANTED
- RAILROADS
- HIGHWAYS

SCALE OF MILES
0 10 20 30 40 50 60 70 80 90 100

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Ports of Call

CHICAGO Second city of America. Financial and commercial capital of the Middle West. World's greatest livestock, lumber, meat-packing, provision and grain market. World's busiest transportation center.

MILWAUKEE Largest coal-receiving port on the Great Lakes. The largest beer-manufacturing city in America.

MADISON Capital of Wisconsin. Home of the University of Wisconsin. Almost surrounded by beautiful lakes.

ROCHESTER Home of the justly famous Mayo Clinic. Thriving agricultural and dairy center.

ST. PAUL Capital of Minnesota. Headquarters of Northwest Airlines. Extensive railroad shops. Largest meat-packing industry in the Northwest. Home of the grey and colorful winter ice carnival.

MINNEAPOLIS Gateway to 10,000 lakes. Known throughout the world as the "Flour City" because of its 22 mills. Rivers flow within the city limits.

DULUTH-SUPERIOR Gateway to the world's greatest iron ore fields. The harbor is second only to New York City in annual tonnage. Lake Superior and surrounding country ideal for vacation enthusiasts. Summer Ave. Tem. 62°.

FARGO Capital of the great Red River Valley agricultural development. Home of North Dakota Agricultural College, also U. S. Land Grant College.

GRAND FORKS Home of the University of North Dakota and center of a large potato-producing area.

WINNEPEG Capital of Manitoba. Province. Metropolitan of Western Canada. Home of University of Manitoba. Important flour, pulp, paper, railroad and manufacturing center.

BISMARCK Capital of North Dakota. Historical starting point of General Custer's Indian campaign in early Frontier Days. Mandan is the grade-making city of the world. The grade-making "Red Lands" are located between Bismarck and the next westward port of call.

MILES CITY Located on the Yellowstone River. Great horse, cattle and wool center.

HELINGS Gateway to the great Dade Ranch, country, so famous for raising the finest horses in America.

HELENA Capital of Montana. Gateway to Glacier National Park, "Land of Shining Mountains." Gold, silver, lead and zinc mines. Hunting and fishing.

BUTTE Gateway to Yellowstone and Grand Teton National Parks. Produces nearly one-third of copper mined in the U. S. Large silver mine. Tailors and dressmakers in the world above the Montana Smelter. Home of Montana School of Mines.

MISSOULA Home of the University of Montana. Copper, lead and gold mines. Great trout country.

SPokane Largest city between Minneapolis and Puget Sound. Center of great lumbering, wheat, mining operations. Situated on the Spokane River.

WENATCHEE Apple center. Located on the Columbia River. To the north, Lake Chelan stretches the sixty miles along the beautiful Wenatchee River.

YAKIMA Trading center. Fruit and vegetable canneries. Pine and fir timber country.

SEATTLE Gateway to Alaska and the Pacific Coast. Northwest's Short Cut Route is the direct connecting link between 19 important cities. It provides connections with other great airlines to Vancouver in America. It takes only 4 1/2 hours to fly from the Pacific Northwest to Chicago in a matter of twelve to thirteen hours without the least of a single business day.

The primary purpose of this season's flight is to make your Northwest flight even more enjoyable. It will enable you to glance out the window and quickly ascertain your position over the passing world below.

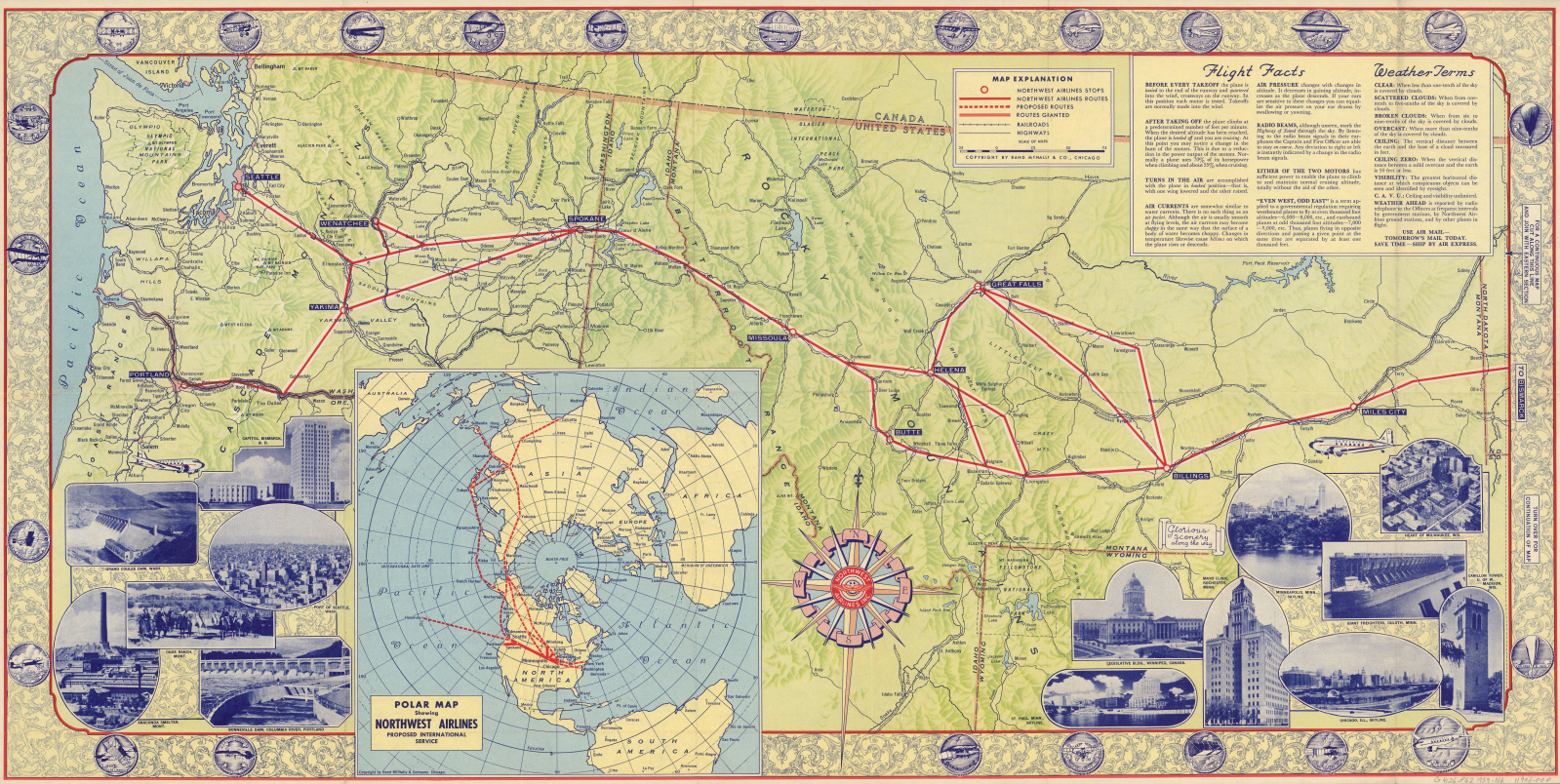
And as you do so, you might reflect a moment on the modern methods of air transportation. Apparently you are surrounded by nature in the air. Down below rivers, towns, farmlands and forests are to be seen. It is difficult to realize that you are winging through the sky at approximately three miles per minute—over much of the route which, in 1934, Lewis and Clark took one and one-half years to cover on the ground.

Actually, your plane is riding a high wave in the air, and will be marked as any one on the earth. Your plane is never more than nine minutes from an emergency landing field. And the flight is highly skilled throughly experienced pilots who, under the command of your Captain and his Officer as directed by the United States government.

These men know every mile of the route—from long experience in flying it. And even though clouds may obscure navigation, both the Captain and his Officer can quickly accurately determine their exact position. As their finger tips to every modern aid to flying as it flies—two-way radio telephonic beacons ground stations and plane, automatic gyro pilot, dual controls, and all the other scientific devices which have represented their part in the flying comfort of today.

Short Cut Route

NORTHWEST Airlines
SOUVENIR AIR LOG



MAP EXPLANATION
 O NORTHWEST AIRLINES STOPS
 NORTHWEST AIRLINES ROUTES
 PROPOSED ROUTES
 AIRWAYS
 HIGHWAYS
 STATE BOUNDARIES
 COURTESY BY HARRIS & CO., CHICAGO

Flight Facts
BEFORE EVERY TAKEOFF the plane is tested to see if the engine and propeller are in the best condition for the flight. The pilot is given a check-up at the base of the aircraft. This is done by a mechanic in the power plant of the engine. The pilot is given the 100% of the engine when it is ready and about 10% when it is not.

RADIO BEAMS although never, such as the physics of sound through the air. The beam of light from the plane is used to guide the pilot in the air. The beam is used to guide the pilot in the air. The beam is used to guide the pilot in the air.

TURNING IN THE AIR are accomplished with the use of a bank position. This is done by one wing being raised and the other lowered.

AIR CURRENTS are currents of air that flow in the sky. There is no such thing as an air current. The air is always moving. The air is always moving. The air is always moving.

WINDS are currents of air that flow in the sky. There is no such thing as a wind. The wind is always moving. The wind is always moving. The wind is always moving.

THE AIR MAIL is a service that is provided by the airline. The air mail is a service that is provided by the airline. The air mail is a service that is provided by the airline.

Weather Terms
BAROMETRIC PRESSURE is the force exerted by the air. The barometric pressure is the force exerted by the air. The barometric pressure is the force exerted by the air.

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