Crash Laid To Stresses From Storm

WASHINGTON (UPI) - The flight recorder of the Northwest Orient Airlines jet which crashed in the Florida Everglades last Tuesday indicates the plane was subjected to violent stresses se vere enough to eause structural failure, it was learned today.

The stresses may have been the result of storm turbulence, although this still is in the realm of speculation.

Sources close to the investigation of the crash, in which all 43 aboard were killed, said a preliminary recorder reading showed

this picture:

—The Boeing 720B jet reached a maximum altitude of about 19,-400 feet when it encountered what appeared to be extreme turbu-

-The indicated air speed at this point was about 250 or 255 knots (around 300 miles per hour), which is standard penetration speed for entering turbulence

-At this speed, the recorder scrawled out a reading of negative "G" forces 3.5 times that of gravity. Negative G forces put a downward strain on the wings, and 3.5 far exceeds the design limits of the airplane

The high G forces indicating probable turbulence was followed by a minute of smooth flight, then slightly choppy air for an other 30 seconds, and suddenly a

other 30 seconds, and suddenly a nose pitch-over into a dive.

—The speed in the dive built up to as high as 620 miles per hour and possibly higher: the speed tracing went off the re-corder's graph at about 10,000 feet, an altitude at which 620 m.p.h. far surpasses the "never

exceed" speed of a jet.

Investigators emphasized the recorder readings thus far are preliminary and subject to continued analysis. They also cau-tioned against any premature interpretation.

"At this point," one official said, "all we have is evidence of severe turbulence, abnormal stress forces and a high-speed dive. It's too soon to tell whether turbulence caused a structural break-up, whether other factors might have been involved, wheth er the dive caused structural fail tire or merely followed it."

Airmen and engineers alike

would be stunned if it is deter-mined that the Northwest jet was wrecked by storm turbulence. Airliners like the Boeing 720 are regarded as the strongest ever

JFK Asks Water Study

WASHINGTON (UPI) - Pres dent Kennedy has sent Congress a study of the nation's water problems and asked for a full attack on them before some regions are

Kennedy asked specifically for new legislation "to strengthen substantially the contributions that the universities can make to renearch and graduate education

The President sent Congress 307-page report Monday that took a task force from the Federa Council for Science and Technology five months to compile.
It noted that three dozen bu-

agencies were engaged in water surce research.

The report recommended development of water research center in each of the 50 states and fed eral grants to universities to conduct independent research.
Although about 5 billion acre

feet of water per year talls or the continental United States large areas of the country are thirsty, the report said. If this water were uniformly distributed it would cover the nation to depth of 2.5 feet. But despite the tremendous fall, the report said the volume of water "required t dilute sewage approaches, and is some places already exceeds, the amount of water in the rivers dur-ing times of low flow.

Requirements for controllable water may exceed average river and underground flows by th year 2,000 in Southern Californi and the Great Basin, in the Deaware-Hudson, apper Arkansas-Red River, Great Lakes, and western Gulf regions, and in the upper Missouri, Ro Grande-Peces.

and Colorado River basins.
"The total deficil in dry years may be something like 100 million acre-feet per year. Unless significant improvements can be brough about in the efficiency of water size, or other adjustments can be made, expensive water transportation system will be necessary to meet the needs of these region

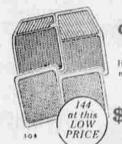
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