real in appearance are some of the Indians portrayed on these walls that archaeologists can point out detail after detail of costume and belongings, known by other lines of evidence. Even the possibility of identifying some of the old figures with modern ceremony and everyday customs of Hopi Indians has been

seen by the Harvard archaeologists.

A series of eight murals, Mr. d'Harnoncourt said, will be a feature of a comprehensive exhibit of America's Indian art, ancient and modern, to be shown to the public at the Museum of Modern Art in New York, in January.

Science News Letter, August 31, 1940

PUBLIC HEALTE

War Menaces Europe With Several Deadly Epidemics

Shortages of Food, Fuel, Medicines and Sanitary Supplies Cause Grave Concern to Health Authorities

LUROPE'S chances for escaping warborn diseases this winter are not too bright. Like the prospects of famine, a hazardous health situation hangs on some vital "ifs."

If this winter proves severe, as last winter was, fuel shortages will join forces with weather to promote disease. Supplies of fuel for household heat are expected to be even shorter than last winter. A mild winter would minimize misery from this cause, but cold waves would render people already weakened by malnutrition and other war experiences a ready prey to disease.

If health and sanitation services disrupted by war are not resumed, with sufficient medical supplies, there will be weak spots in health defense where trouble may spread. Speed with which French refugees are returned to their homes is important for health. Pneumonia and other respiratory diseases are rated as the chief risk which Europe's population faces, as conditions are now. Tuberculosis is likely to take heavy toll, if the work of careful organization is undone, and masses of people are permitted to spread the disease through overcrowding, and other poor living conditions.

If Europe is acutely short of food supplies, as some observers claim, or if Nazi Germany will not share and apportion supplies equably, a train of well-known malnutrition evils is in store.

Another "if" in the food situation concerns transportation. Food en route from one area to another may be delayed or cut off by transportation breakdowns, all too frequent. If this occurs widely, due to fuel shortage or slowness to resume and repair transportation services, even food available will not be used to best advantage to nourish hungry people.

So far as epidemics go, this war has thus far - fortunately - failed to make sensational history. Typhus has been endemic in Poland and the Balkans. There is always some typhus in eastern Europe. The experiment in which several thousand doses of two new American-developed vaccines were given in Hungary and Rumania, to test their effectiveness as protection against the fever, has been hampered by political changes in Rumania. Since the area of Rumania where the tests were made has since become subject to Soviet Russia, the physicians in charge have presumably withdrawn. But in several months, a report of the effectiveness of the vaccines is expected to come from the Hungarian group.

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ORNITHOLOGY

Starlings Show Sex Change in Autumn

EMALE British starlings "go masculine" in autumn, Dr. W. S. Bullough and R. Carrick of the University of Leeds have reported. Singing, and a yellow beak, are distinctly male characters, dependent on the secretion of male hormone by the male sex glands.

Yet in late October, female starlings' bills turn yellow and their owners begin to sing, continuing through November, when they stop singing and their beaks resume the natural dark color. Apparently during this period their ovaries are secreting the male hormone.

Female starlings from continental Europe, some of which are always present in the British Isles, do not have this period of temporary masculinity.

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ARCHAEOLOGY

Chemical Spray Facilitates Reading of Ancient Tablets

SCHOLARS can now read cuneiform tablets of the Babylonians in one-tenth the time formerly required, thanks to a simple trick of blowing powdered ammonium chloride on the ancient surface. The process, introduced by Dr. Neilson C. Debevoise, research associate of the Oriental Institute of the University of Chicago, is finding extensive use at the Institute for reading and photographing writings on clay.

While almost everything that the ancients wrote on clay has been preserved, the surface of business documents, letters, and other "papers" is usually discolored.

To aid in reading, Dr. Debevoise pointed out, a slanting light is thrown across a tablet. Although this brings out the wedge-shaped characters, it is still often impossible to read the writing because of the discoloration.

"The great advantage of the ammonium chloride, which condenses when it is blown across a tablet," he explained, "is that it provides a dull surface of an even color, so that a tablet may be read with ease or a photograph made of very low relief."

Science News Letter, August 31, 1940

POPULATION

Netherlands Indies Seen As Gravely Overcrowded

ADDED on to much-advertised war troubles, millions of natives of Netherlands Indies are heading toward a serious internal situation, the result of overcrowding.

So dense is the population of Java, that the world's only agricultural areas rivaling this island's crowding are the Nile valley, parts of the Ganges valley, and some regions in China, says a report in the Population Index, issued by Princeton University's School of Public Affairs and the Population Association of America. A 1930 census showed 817 persons per square mile, with 1,274 in the densest area. At the present rate of growth, by the year 2000 Java, including its closelinked neighbor island, Madura, will be thronged with 116,000,000 people which the population experts flatly call "an impossible figure." Actually, before that time, population increases will probably force down the living level, so that from bad living conditions rates of disease and death will rise.