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How War Has Turned Pigeons Into Photographers.

HOUGH wireless telegraphy and aeroplanes may have lessened the importance of pigeons as dispatch-bearers in times of war, they have by no means ousted them Only a few days since two pigeon dealers, one of them a German, were arrested in London German, were arrested m London for having in their possession sixty "carrier and other pigeons" in contravention of the Aliens Restriction Act, and about the same time a German spy was arrested in Belgium with pigeons in his possession under circumstances which left no room for doubt that they were to be used to further his nefarious ends. Now that armies actually can make use of trained pigeons as photographers, these birds are in the way of becoming important factors in war A miniature camera is now manufactured for this purposs. Suspended by straps beneath the bird's breast, its iens is directed downward while the flight continues. Its action is, of course, automatic, governed by a turning mechanism which causes a roll of film to be exposed at regular intervals.

above the enemy's lines in daytime brings home on a tiny roll of film a picture record of all that was be-neath its flight—details of the ene-my's position and strength in men and guns.

The possibilities of pigeon photog-raphy in war were recognized in Germany some time ago. Experi-ments were made under army super-vision. They were successful, views of parks, rivers and bridges and city of parks, rivers and bridges and city streets of quite remarkable distinctness being developed from the exposed portions of film-rolls brought back by the pigeon camera-carriers.

That these aerial messengers are still capable of rendering valuable service, chiefly between forts, is shown by the fact that in Germany there are about 200,000 of these

there are about 200,000 of these "homing pigeons," belonging to va-rious societies, and of this number out 8,000 are reserved exclusively

During the Franco-German War of 1876-71 these pigeons played a very important part. At first they carried dispatches reduced by photography to microscopic proportions on thin

sheets of paper Later, all matter, whether public dispatches or letters, were printed in ordinary type transferred and reduced by micro-photography to thin films of collection measuring about two inches by one. These were so light that thousands of dispatches, weighing less than one gramme, could be carried by one pigeon

The films were rolled up and placed in a quill, which was then fastened lengthwise to one of the film was flattened out, and the printed matter was thrown on a screen by a tantern and copied. Later, sensitive paper replaced the screen, so that the labor of copying was saved. The cost of sending measages was high, as may be judged from the fact that the pestal fees on a single dispatch would often amount to more than \$500,000. Each dispatch was repeated, sometimes twenty or thirty times, till acknowledged by balloon post, which brought back the birds for another journey. The Germans spared no effort to frustrate these sources of informa-tion. Krupp made special guns to

bring down the balloons, and the pigeons were harassed by trained falcons.

The term "carrier pigeons" for these birds is now a misnomer; for the "carrier" pigeon is a bird of a different type distinguished by the enormous development of the "watenormous development of the "wat-tles" round the eyes and beak. The true "carrier" pigeon is now more correctly known as the homing pigeon, homer, or Antwerp carrier The latter name indicates the origin of the breed, for the Belgians are without rivals for their admiration for the breed and interesting the second for this bird and their skill in training it. The homer is, even in his native land, represented by several races, all of which, however, possess the "homing" instinct. These races,
"Les Pigeons Voyageurs," are bred
first and foremost for their powers
of flight, color and marking are of

The speed of some of these birds averaged 1,250 yards a minute, but to day this has been increased to 1,836 yards a minute. The speed, of course, depends much on the state of the weather. In a race between Montargis and Brussels, in 1876, in bright,

clear weather, all the prize-winners made the journey of 270 miles in three hours and a quarter. Over the same course in 1877. in thick, stormy weather, thirty hours elapsed before

weather, thirty hours stapsed before the first bird arrived.

That the homing pigeon possesses an extraordinarily acute sense of di-rection there can be no question. A case is on record of a bird bought in Brussels and brought over to Eng-land, where it remained in close con-finement for asyeral months. Then, finement for several months. Then, one fine day, it was ifberated for exone fine day, it was liberated for exercise. It at once made off, and in a few hours was back in its loft in Brusseis, having travelled over 400 miles of country which it had never seen before. As a rule, however, these birds are carefully trained, the initial stages beginning at the age of about four months. By the end of the first year a flight of one hundred miles can be successfully performed. But longer flights are performed only by fully matured birds of at least three years old. It is a mistake, however, to suppose, as some do, that they will fly at night or in a fog. They must always have or in a fog. They must always have a clear view.