

SUPREMACY OF AIR IN WAR

France First with Aeroplane Fleet, Germany with Dirigibles.

ENGLAND AIMS AT BEST TYPE

Comparison of the Two Styles of Craft Indicates Advantages for Either—Offensive and Defensive Uses.

Recognition by the public of the value of air craft in national defense has led to the development of an industry devoted to the supply of dirigibles and aeroplanes. Especially in France and Germany; has aeronautics been stimulated in this manner. France developed the first practical dirigibles, but has until recently concentrated her energy chiefly upon aeroplanes, with the result that at the present time the French army is estimated to have between 600 and 1,000 aeroplanes in service. These aeroplanes are, moreover, of types that represent the highest development in aeroplane design. On the other hand, Germany, realizing the menace of this aerial force and the impossibility of duplicating it, has recognized the possibilities of the dirigible and given liberal support to the development of the ships of Count Zeppelin and Major von Parseval. Great sums have been spent and many lives have been lost, but the reward has already come. The German army now possesses a splendid fleet of twenty-five airships, representing the highest development in airship design. At the same time France has brought her fleet of airships up to eighteen, and Germany has some 500 military aeroplanes, with a large civilian passenger service. It is a race for the supremacy of the air between two great powers whose capitals lie within the radius of action of air craft from each other.

England is Behindhand. England has recently joined the race for supremacy, and, apparently realizing that it is too late to overtake her continental rivals by the mere multiplying of units, has directed every effort toward the development of air craft superior in design to the existing types. Foreign machines have been purchased liberally, and an aerodynamic laboratory and an experimental air craft factory have been built. England's future in aeronautics is placed in the hands of an advisory committee headed by Lord Rayleigh and composed of distinguished scientists and engineers. The race then is not only between the factories, but also between the laboratories. The production of a type of marked superiority will immediately make obsolete the aerial forces of other powers.

Due to high cost of maintenance, some danger and dependence upon weather conditions, airships have not yet been proved of great commercial value. It is true that thousands of passengers have been carried by the Zeppelins of the Deag company in Germany, but this passenger-carrying business so far has been of the nature of sight-seeing trips up the Rhine or around and over Berlin. There is no more delightful way to see the country. Provided with a good map, a passenger can become acquainted with a great area of country in a few hours' time. The facility for observation leads at once to the consideration of the use of airships in time of war.

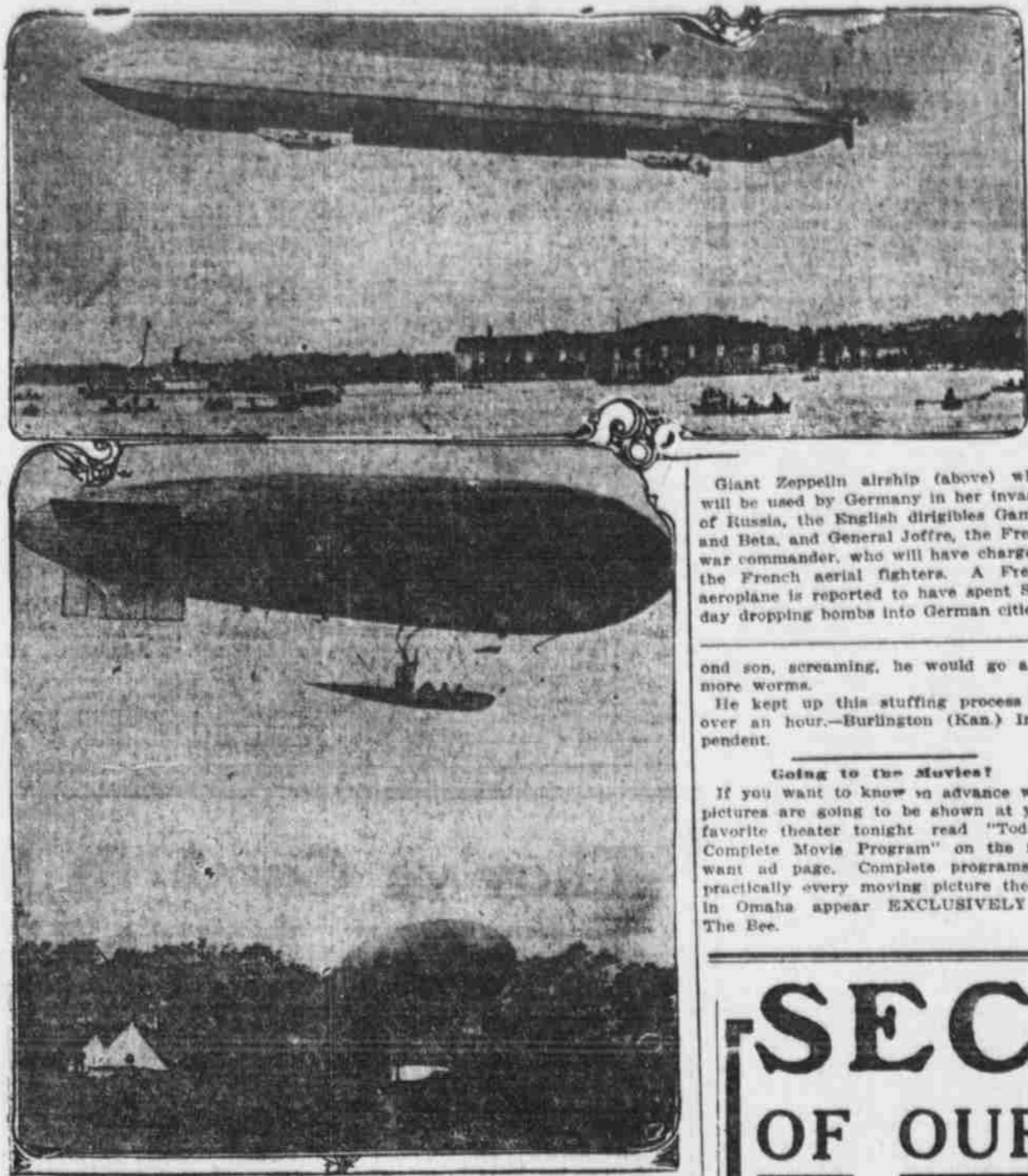
Capacity of the Dirigible. The dirigible, operating in clear weather at an altitude of some 5,000 feet, is fairly safe from gun fire and yet not too high for a trained observer to detect the movements of large forces on the ground, general features of fortifications, number and type of ships in a harbor, presence or absence of bridges and railroad tracks. The dirigible can stop its motors and float slowly above ground if it desires to observe. The dirigible cannot perform such service except by circling above a given area, thus reducing its fuel supply and future usefulness. The great test in military operations of the dirigible will be for long-distance reconnaissance. In a country whose probable enemies lie within the radius of action of air craft, dirigibles may be used at or before the opening of hostilities to pass over the enemy's frontier to observe the mobilization of troops, their direction of march and probable destination. A dirigible, unlike an aeroplane, is fitted with wireless telegraph for both sending and receiving messages, and may keep in constant communication with its base. The radius of action in a calm of large rigid airships may be 2,000 miles, and medium sized, non-rigid ships, 1,000 miles. An aeroplane cannot be depended on for more than 400 miles when an observer must be carried in addition to the passenger. A dirigible can save fuel by drifting with the wind, and it is well known that by selecting a suitable elevation a favorable wind can very often be found when the wind on the ground is contrary.

Usefulness at Night. The greatest usefulness of the dirigible will be at night. At the present time aeroplanes cannot be flown at night. The dirigible at night can travel close to the ground without danger from gun fire and can observe the extent and disposition of camps. For pure reconnaissance work an army could use large rigid dirigibles for distant scouting to develop the enemy's principal movements preceding the actual meeting. Due to its portability any expedition in the interior of an enemy's country or in the colonies would be best served by non-rigid dirigibles. These ships are easily crated for shipment and can be inflated in the field from bottled hydrogen or a portable gas plant drawn by a motor truck. Large sheds are not necessary, as the ship can be moored in the open to a post in good weather and deflated in a violent storm. In cases where both rigid and non-rigid airships might be used, the non-rigid ships might observe from a safe altitude the progress of a battle and the effect of artillery fire. Aeroplanes would be used for transportation of staff officers, dispatch duty and scouting within the limits of the battlefield. The same functions at night would be performed by the non-rigid dirigible.

In case of siege, where the enemy has possession of a great expanse of surrounding country, communication with the beleaguered forces could be had by means of a dirigible of sufficient radius of action. Its going and coming would be masked by darkness.

Comparison of Types. The use of dirigibles in modern wars will be greatly restricted by the enemy's aeroplanes, which must be supposed superior both in speed and climbing power. On the other hand a dirigible will mount several machine guns and, having a steady gun platform, can deliver a much better directed fire than the aeroplane. It is not clear what might be the result of an aerial skirmish between a scouting dirigible and the enemy's aeroplanes. However, a unit of a dirigible fleet is so much more valuable than a whole squadron of aeroplanes that it seems unlikely that a dirigible would

Aircraft to Play Great Part in Europe's War



Giant Zeppelin airship (above) which will be used by Germany in her invasion of Russia, the English dirigibles Gamma and Beta, and General Joffre, the French war commander, who will have charge of the French aerial fighters. A French aeroplane is reported to have spent Sunday dropping bombs into German cities.

and son, screaming, he would go after more worms. He kept up this stuffing process for over an hour.—Burlington (Kan.) Independent.

Going to the Movies? If you want to know in advance what pictures are going to be shown at your favorite theater tonight read "Today's Complete Movie Program" on the first want ad page. Complete programs of practically every moving picture theater in Omaha appear EXCLUSIVELY in The Bee.



Inferior force with a fair chance of destroying a division of the enemy's fleet before other units could be mobilized.

Battleships in Little Danger. In general it may be considered that the offensive power of airships would have little effect upon armored-decked battleships. Bombs and torpedoes will burst on the surface of such decks, turret roofs, etc., and do local damage, but probably will not injure any vital parts. A ship is a small target to hit from the altitude of 5,000 feet, which is required by day to be safe from gunfire. At night an airship may pass low over a ship, but in wartime no man-of-war will show lights and, unless the moon be bright, the dirigible has small chance of finding the ship.

It seems that the principal function of the dirigible in naval warfare is to supplement the work of scout cruisers, and that its offensive powers would rarely be called upon.

In attempting to pass through waters in which mines have been laid, a dirigible could possibly conduct counter mining operations. A dirigible can also give warning of the presence of submarines, and, if required, could rid a passage of these dangerous craft by launching bombs upon or near them. For this duty the dirigible may pass at a very low altitude, as it has little to fear from a submarine boat unless the latter be running on the surface.

Dirigibles will not revolutionize naval warfare, but may play an important if auxiliary, part in it.—Journal of the Franklin Institute.

BIRDS VERY LIKE HUMANS

Things One May See Who Watches the Robins—Father Feeds His Young.

Of all birds the robin youngsters are the most determined to stay at home and camp on Pa and Ma. It would not be surprising to find a young robin, who was laid in March and hatched in May, coming home in August with his bride and asking Ma to set off the eggs in which were her fond hopes for a third family and hustle up a meal for her eldest son and his wife. Last Monday a slim, sprightly father robin was prancing on the Baker lawn. He was flanked on either side by offspring as big as he was, one crying loudly for a fishworm, the other for a fat grub. Pa would skip along a few feet, cock his head, listen intently, dig his beak down into the ground and pull forth a luscious tidbit. Both children would squawk for it. Down into the spring mouth of the birding as long as he and much father would father thrust the bite. Then, see-

Joyful Anticipation of Motherhood



There is apt to be a latent apprehension of distress to mar the complete joy of expectation. But this is quite overcome by the advice of so many women to use "Mother's Friend." This is an external application, designed to soothe the muscles and to thus so relieve the pressure reacting on the nerves, that the natural strain upon the cords and ligaments is not accompanied by those severe pains said to cause nausea, morning sickness and many local distresses. This splendid embrocation is known to a multitude of mothers. Many people believe that those remedies which have stood the test of time, that have been put to every trial under the varying conditions of age, weight, general health, etc., may be safely relied upon. And judging by the fact that "Mother's Friend" has been in continual use since our grandmother's earlier years and is known throughout the United States it may be easily inferred that it is something that women talk about and gladly recommend to prospective mothers. "Mother's Friend" is prepared only in our own laboratory and is sold by druggists everywhere. Ask for a bottle to-day and write for a special book for expectant mothers. Address Bradford's Regulator Co., 407 Lamar Bldg., Atlanta, Ga.

Only a Small Expense is Required to Purchase a Beautiful Upright Grand Piano or Player Piano During This After Stock Taking Sale of All Discontinued Styles and Slightly Used Pianos

Every instrument sold with a Bonafide Guarantee. There never has been a sale of pianos to compare with this sweeping clearance of our floor stock. The prices quoted are in many cases actually less than the cost of manufacture alone. Small Weekly or Monthly Payments may be arranged to suit your convenience, in order that every family can take advantage of the bargains.

Note These World Famous Piano Bargains: Table listing various piano models and prices, such as \$250 Newby & Evans, Upright, now \$90; \$300 Kimball, Upright, now \$135; \$275 Davis & Son, Upright, now \$145; \$450 Steger & Sons, Upright, now \$210; \$200 Schmoller & Mueller, Upright, now \$150; \$300 Strauss & Sons, Upright, now \$148; \$400 Steger & Sons, Upright, now \$160; \$500 Emerson, Upright, now \$290; \$225 Wagner, Upright, now \$175; \$300 Bradford, Upright, now \$155; \$300 Richter, Upright, now \$160; \$250 Smith & Barnes, Upright, now \$115; \$300 Voigt, Upright, now \$148; \$250 Estey, Upright, now \$110; \$400 Whitney, Square, now \$20; \$1000 A. B. Chase, Grand, now \$350; \$800 Steck, Grand, now \$250; \$1000 Weber, Grand, now \$675.

Only a Few Player Pianos in This List But Every One a Bargain. \$500 Schubert Player Piano, now \$235; \$550 Schmoller & Mueller Player Piano, now \$290; \$700 Stuyvesant Pianola Player Piano, now \$425; \$700 Art Style Player Piano, now \$365; \$800 Wheelock Player Piano, now \$495; \$200 Chase & Baker Player Piano, now \$35; \$250 Pianola Player Piano, now \$50.

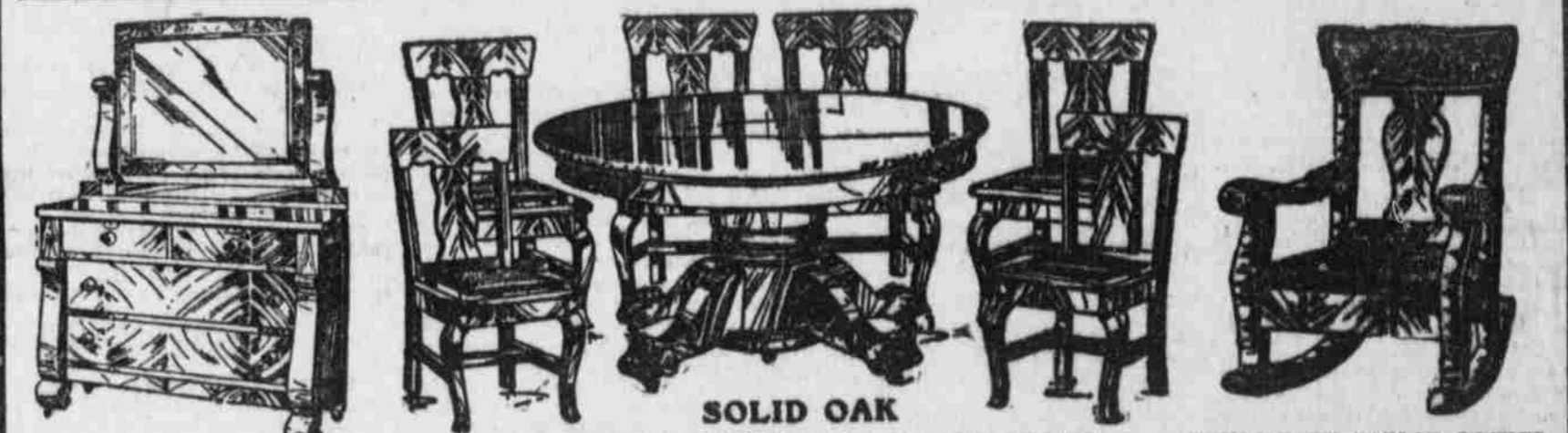
Our Free Offer Continued for another 30 Days. Beautiful 42-piece Dinner Set Free to every purchaser of an Upright, Grand or Player Piano during August. In addition to these special bargains we are making extraordinary inducements on our complete line of new Hardman, Steger & Sons, Emerson, McPhail, Lindeman & Sons and Schmoller & Mueller Pianos.

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Another week of phenomenal furniture and carpet bargains—values that have never been equaled before in the furniture history of Omaha. No matter what you need—an extra rocker or a complete outfit for your entire home—you will find money-saving opportunities here such as you have never seen before. We want to convince you that this statement is true—that Hartman's offers the highest grade of furniture and carpets at the lowest prices in the city. All we ask is a call and a comparison of values. We know that when you see our values you will be convinced. Pay us a call while our stock is still complete—it will more than pay you.

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SOLID OAK 7-PIECE DINING ROOM SET. COMPLETE SET OF SEVEN SOLID OAK DINING ROOM PIECES, consisting of six chairs upholstered in Imperial Leather and one large 42-inch top extension table which extends to six feet. The pedestal of table is very massive, supported by four heavy feet. Beautifully finished in golden. This set usually would bring \$115. Our special clearance sale price for this week is \$20.98.

Amazing KITCHEN CABINET Bargain \$10.98. MADE OF HIGHLY SEASONED HARD WOOD. Complete with fifty-pound flour bin, china compartment, utensil shelf, silverware and kneading board. Your kitchen is not complete without this labor saving cabinet. A wonderful value at this low price.



SEE OUR SPECIAL RUG PRICES BEFORE BUYING. AN AMAZING VALUE IN A 6x12 FT. BRUSSELS RUG. These rugs woven in the very newest patterns, colors are so blended as to harmonize with any furnishings. Made of wool worsted in the very latest oriental designs. Suitable for parlor, dining room or bedroom. A wonderful bargain specially priced for our clearance sale. \$9.98.



Elegant Solid Oak CHIFFONIER \$7.15. Made with five large roomy drawers each fitted with wood pulls. Constructed of selected oak, finish golden. The mirror is of French beveled plate set in neat turned standards. Really worth \$15.00. Our special clearance sale price for this week is quoted above.



4 ROOMS FURNISHED COMPLETELY \$99. Everything Ready for Housekeeping Terms, \$5 a Month.



2-INCH STEEL POST BED COMBINATION. This combination consists of very massive all steel bed, not the very low one shown by other stores, but a regular height bed, measuring 38 inches. Springs are all steel frame supported in the center under the bed and cotton top mattress. Complete set for only \$10.89.



ALL STEEL FRAME COLLAPSIBLE NEW MODEL GO-CART. Has three-piece handle, adjustable back and dash and very stoutly constructed. Hood and body upholstered in Imperial leather. Large wheels and heavy rubber tires. For this sale \$4.65.

MASSIVE \$30 BED DAVENPORT. UNIFOLD TYPE REVOLVING SEAT DAVENPORT. Exactly like illustration. Frame is of solid oak, finished fumed. The upholstering is of high grade Spanish Imperial leather. One simple motion converts it into a full sized bed. A handsome davenport by day and a comfortable bed at night. Special clearance sale price for this week only. \$1675.



VERY BEAUTIFUL AND HIGH GRADE SOLID OAK LIBRARY TABLE. Top measures 28x40 inches. Fitted with large stationary drawer. Legs are very heavy and artistically turned. Brilliantly finished in golden. Regular price of this table is \$14.00. Clearance \$6.95 price.



LARGE SIZE FOLDING CARD TABLE. Can be had in most any finish. In either billiard cloth top or imperial leather. Folds up completely as shown in illustration. The top measures 26x30 inches. Has nickel ends and very strongly constructed. While they last at this very low price of \$1.89.



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