Weather Enters Big Business Field of World's Armies, Navy, Trade and Farms

WNU Staff Correspondent.

There is one thing in which the nation's farmers and our military leaders have a common stake . . . an element which can upset the most carefully laid military plans and the most meticulously planned agricultural program -the weather.

The farmers' success in planting and harvesting and American combat success in combined land-sea-air operations can come only through close observance of the scientific predictions of the weatherman. For the weather is often used as a military weapon by our military strategists, and our farmers are dependent upon the vagaries of the weather to harvest a record production, or a crop failure.

No military operation-whether it is a minor sortie by a group of fighters, a bombing mission on an enemy city, naval bombardment of a Jap island, a ground attack in China, or a large scale invasion-is never blueprinted unless latest weather information is first consulted. Success of an attack is ofttimes dependent upon clear weather, though American forces have profitably exploited bad weather to make offensive strikes against the enemy.

Our military strategists were quick to recognize the importance of accurate meteorological data, and so have greatly expanded the network of observation posts, trained thousands of officers and enlisted men and adopted new technological devices to guarantee reliable fore-

Together, the AAF, the navy and the U. S. Weather bureau weather systems form a vast network of information, research, observation and forecasting reaching from the United States to all parts of the world. Observation units vary in size from two men occupying a hut on an isolated Atlantic or Pacific isle to a major research station with a full staff of specialists.

The AAF maintains several major research centers and more than 1.000 observation and forecasting stations reaching from the Arctic to the Antarctic, and its weather report system spreads and moves as rapidly as the fighting fronts. The nerve center of this vast, scattered weather force is in the Pentagon building in Washington where approximately 250 persons watch the weather in all regions of the world and prepare long-range forecasts and special studies to guide our high strategy planners.

Navy Maintains Stations.

The navy maintains about 1,400 observation and forecasting stations, including about 14 major weather "centrals." In some instances aerological units may be aboard flagships or aircraft carriers, or on advanced island bases and the units may consist of one man on a small ship or a full-fledged "central" with a full complement of 100 or more officers and men.

How the navy weather bureaus have grown since 1940 may be seen by the fact that in that year navy aerology under the bureau of aeronautics consisted of less than 200 officers and men in about 50 units, whereas today the personnel totals about 6,500 officers and men assigned to the 1,400 units. The AAF staff of weather specialists numbers 20,000 officers and men, and the force of observers alone has grown

Service provided by these thousands of forecasters in-



This photo shows the effect of weather on the soil on a south Pacific island. This truck is really mired.

would encounter rough seas on the

journey from North Africa. But at

the same time our forecasters pre-

dicted tranquil waters in Sicilian

harbors, and the almost miraculous

calming of the seas as our landing

craft neared the Sicilian shores has

Admiral Halsey took advantage of

the cover of a "zero-zero" storm aft-

er raiding the Marshall and Gilbert

Islands. With visibility zero and

ceiling zero, his ships, large and

heavy enough to ride out the storm,

were meanwhile safe from enemy

At Rabaul detail plotting of the

upper air strata enabled our forces

to lay down a smoke screen to blot

out our vessels and our planes from

Japanese ack-ack and dive bomb-

ers. Low wind velocity was required

so that our screen would not sud-

denly veer and cover our target in-

stead. Conditions were exactly as

Many other instances of the

use of weather forecasts by our

militarists are given, for in-

stance in the Normandy inva-

sion, weather was bad and the

sea choppy, but the forecasts

were that severe conditions

would prevail for at least 21

Axis Are Weather Conscious.

have used weather, particularly bad

weather, to screen their activites.

For instance, Germany's battle of

the bulge in the Ardennes was un-

doubtedly arranged to coincide with

bad weather that would keep our su-

perior air strength incapable of de-

cisive blows, while German ground

forces, numerically stronger at that

point, smashed through. A clearing

mately and our air power went into

are not as far advanced in weather

instance a Japanese plan of action

did not work out as scheduled be-

cause of their weather miscalcu-

lations. They attempted to bring

reinforcements to New Guinea un-

der a storm front so that our planes

could not spot their movements. An

unexpected or miscalculated shift

dissipated the storm front. The

troop and supply armada was spot-

ted by our reconnaissance planes.

They were attacked and destroyed

by the AAF in the famous Battle of

Research Essential.

the Bismarck Sea.

predicted and ordered.

become a military classic.

air attack.

cludes technical operation and interpretation of results recorded by radio-sonde, a small box containing a single-tube short wave transmitter. Sent aloft on a balloon, the transmitter gives temperature and humidity readings at various heights. There are also repair technicians schooled in the maintenance of delicate weather instruments, communications men who radio or teletype weather reports back to headquarters, and aircraft weather reconnaissance fliers, who observe conditions along the flying routes.

According to the Office of War Information, the AAF and the navy weather forces have been made possible by the careful selection of men from the ranks to specialize in weather information, by intensive



Germany took advantage of bad. overcast weather, with rain and snow to make their counter-attack in the Belgian bulge in the Ardennes. Low visibility and cold kept our superior airforce grounded, until clearing weather gave us a break.

station training and by releasing personnel from the weather bureau for military duty and replacing them

by new civilian recruits. Weather Important Weapon.

According to our military men accurate evaluation of weather, plus the constant flow of up-to-the-minute meteorological information from all theaters of war, make it possible to use weather as an important weapon. Cited as examples of weather strategy is the Sicilian invasion. Plotting of prevailing winds and of the movement of cold air front over Italy indicated our invasion ships



Excessive rain has caused a landslide on a military road somewhere

From Arctic to Antarctic Vast Army of Weather Experts Work for the United States

Combined military operations | chemical warfare. smokescreens, | ing combat sections: air, ground, sen and amphibious. Weather plans for air operations must include preinvasion conditions for softening up shore winds and surf conditions. as well as air support on the invasion day. Ground conditions will inbility and wind velocity, for use of | made accordingly.

plans are contingent on ideal weath- etc. Sea conditions must be favorer conditions for all four participat- able enough to permit the large ships to launch small craft with safety and amphibious commanders are concerned with on-shore and off-

So the weatherman's task is to discover conditions which will be most clude soil trafficability, whether or nearly ideal for all four operations

corded each month.

By comparing the current day's maps with the finger-print maps, chosen by weather experts from those maps indicated by the cardmachine selection, the past weather most nearly like that of May 15, 1945, is chosen. It may have been February 23, 1929. With this map and the map for the succeeding days in 1929, the weather expert can see not soil will support movement of and how many days such conditions how the high and low pressure heavy vehicular equipment, air sta- will prevail. Plans can then be groups moved, can study other meteorological data

Gorgeous New Prints in Exotic Scenic Designs and Coloring

By CHERIE NICHOLAS



carry an air of style distinction, don't let the summer get by without giving yourself the joy of including in your dress collection a simple little gown made of one of the gorgeous new scenic prints. You will find that it will become your pet frock no matter how many other lovely dresses you own, for these tropical - looking flamboyant prints are simply devastating in their flat-

The prints themselves are so eye-thrilling you wouldn't think of making them up other than very simply in order to "show off" their | plain colored dress. as gay troubadours and dancing Both Germany and Japan are exbreathe sunshine and outdoor hap-

tremely weather conscious and both | piness. For instance, one of this series of scenic prints depicts the famous California missions done in lavish sunshine colors. See it made up in the charming gown shown to the right in the illustration. A prettier dress for summer you couldn't find, and it will radiate the spirit of sunshine wherever it goes.

The dancing girl is the print motif break in the weather came ultiof the other gown, who fascinates you with her grace and charm. Note action to help stop the German ofthe off-shoulder decolletage outlined with a double bertha collar done in According to the navy, the Japs two tones, the light matching the gold in this fantasy print. It also technique as either Germany or appears in the front skirt-opening our own military. In at least one

Another dramatic print in this series takes an Indian war bonnet for its motif. The headdress, while not life size, is really quite large. With its bright feathers the effect is strikingly colorful and the placement of the bonnet motifs in an allover patterning is most artful.

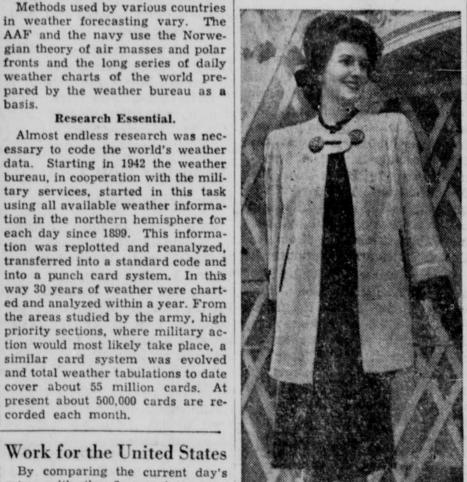
Another adorable print that has feminine charm plus is a shan-

tung patterned with exquisitely colorful bow-knots that are so huge one of them would cover the entire bodice front. This makes up very attractively in a hostess gown and also is making appeal with the young set, for the costume that has a dirndl skirt worn with a monotone contrast blouse. It is a print that yields stunning cutouts to applique as is now being done, one bow-knot on the bodice and one on a strategic point on the skirt of a

unique patterning of true native | For beach wear and play suits scenes or such lighthearted themes a most individual looking borgirls. These California prints fairly better collections, which is well worth looking up by the girl who makes her own clothes. It is a white spun rayon weave, the wide border showing Egyptian figures treking along in picturesque and richly colorful garb. It has an oriental air about it that is fascinating. A very attractive bra-top bathing ensemble of this novel print fashions the skirt of the wide border. A separate longbelted coat uses the material so that the border with its quaint figures forms the wide hemline.

A fashion that has high style prestige is that of the town suit made of gay print. Designers are turning out stunning suit types, some of modest patterning and coloring, for practical utilitarian wear, others of prints so dramatic and colorful they tune most beautifully to daytime social affairs. Once you own a print suit you'll love it. Not only is it perfect for summer wear, but you'll appreciate its flattery. Some are given a dressy look with glittering jeweled buttons, and they all take on all the latest "tricks" in way of bows and scalloped edges and pretty dainty lingerie accents. Released by Western Newspaper Union,

White Mandarin Coat | Shell Jewelry Adds



This striking mandarin coat is in the new white wine shade-an offwhite which everybody adores. It's

Rare Beauty to Mode

Summer costume jewelry made of tropical shells brings new beauty into the current fashion picture. The shells from Tahiti are expertly hand-processed in this country. These Pikaki shells are quite diminutive, being less than quarterinch size. Other exotic shells run to three-quarter inch. Drilled, strung, tinted and pearlized by hand, the jewelry is available in every pastel and tropical hue, also pearlized white shells. Necklaces are shown in choker and lei lengths, made up from one to six strands. They come with earrings to match. One ensemble of bracelets is so contrived that with the use of open lucite links the two can be joined to form a longer length necklace to wear lei fashion. A twisted choker of the tinier shells with a grosgrain tie is another intriguing fancy. Coiffure combs match up with any of the ensembles.

Washable Cottons For Girls' Dresses

Washable piques, checks, stripes and handsome ginghams are suggested for teen-age summer fashions. These are highlighted with eyelet embroidry and other lingerie touches, especially embroidery beading that is threaded with narrow black velvet ribbon. One coats like this which are "stealing charming way of using eyelet emthe show" this season. A coat of broidery is to work it into cap light weight, as shown here, is in a sleeves for a simply styled ginglovely pastel tint, short and youthful ham. This deft touch is the only in line, reaches the ultimate in high | trimming and the effect is charm-

Sunny-Day Set For Little Girl



AN ADORABLE out - of - doors outfit for a sweet little girl. A sun bonnet to shade her facelittle wing sleeves to keep her cool -it's an ensemble that she'll love to wear on sunny days.

Pattern No. 1331 is designed for sizes 2, 4, 5 and 6 years. Size 3, dress, requires 15% yards of 35 or 39 inch material; bonnet, ½ yard; 5 yards edging or ric rac to trim dress and bonnet.

Due to an unusually large demand and current war conditions, slightly more time is required in filling orders for a few of the most popular pattern numbers. Send your order to:

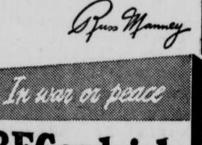
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Address





"slow leak" in time to prevent destructive "roadside flats." The Office of Defense Transportation recommends an effective cure for stealthy leaks: (1) Make sure valve caps have been screwed on finger tight. (2) Before adding air be sure to test pressure in each tire. (3) Check variations in tire pressure—a marked difference in pressure indicates a slow leak, which should be repaired

To help relieve the critical need for military tires, men who work in a large rubber plant in Los Angeles (B. F. Goodrich) have sworn not to miss a day's work, and, like submarine crews, not to shave for 120



BF.Goodrich FIRST IN RUBBER

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"I understand back home they're saying the war is over."

"Speak louder - I can't hear yuh."

Sure, Bill-speak louder. Celebrate louder, Americal

You'll have to, to be heard above the bloody gurgles of the men who are dying at this very moment of our day of "Victory"... the ghostly whispers, mighty in volume, of the men who died not to kill one nation but to kill all tyranny.

Today our great fight is but half won.

Japan, our final and most dangerous enemy, still lives. Japan still boasts an army of 4,000,000 fanatical, lastditch fighters, with half again that many in reserve. Japan's huge, ill-gotten wealth of Empire is still essentially intact.

Japan still hates our guts.

Today we can, if we choose, start breaking faith with those who died. We can go on a fool's orgy, get drunk on our success so far.

Or we can, if we choose, pray for our dead, and for the lives of those who have so far been spared. We can stay on the job, buy another War Bond, give a pint of blood. We can choke back our cheers . . . and save our wind for the mighty task that lies ahead.

Today is but the symbol of the many days to come.

What are you going to do with these days?

Prepared by the War Advertising Council