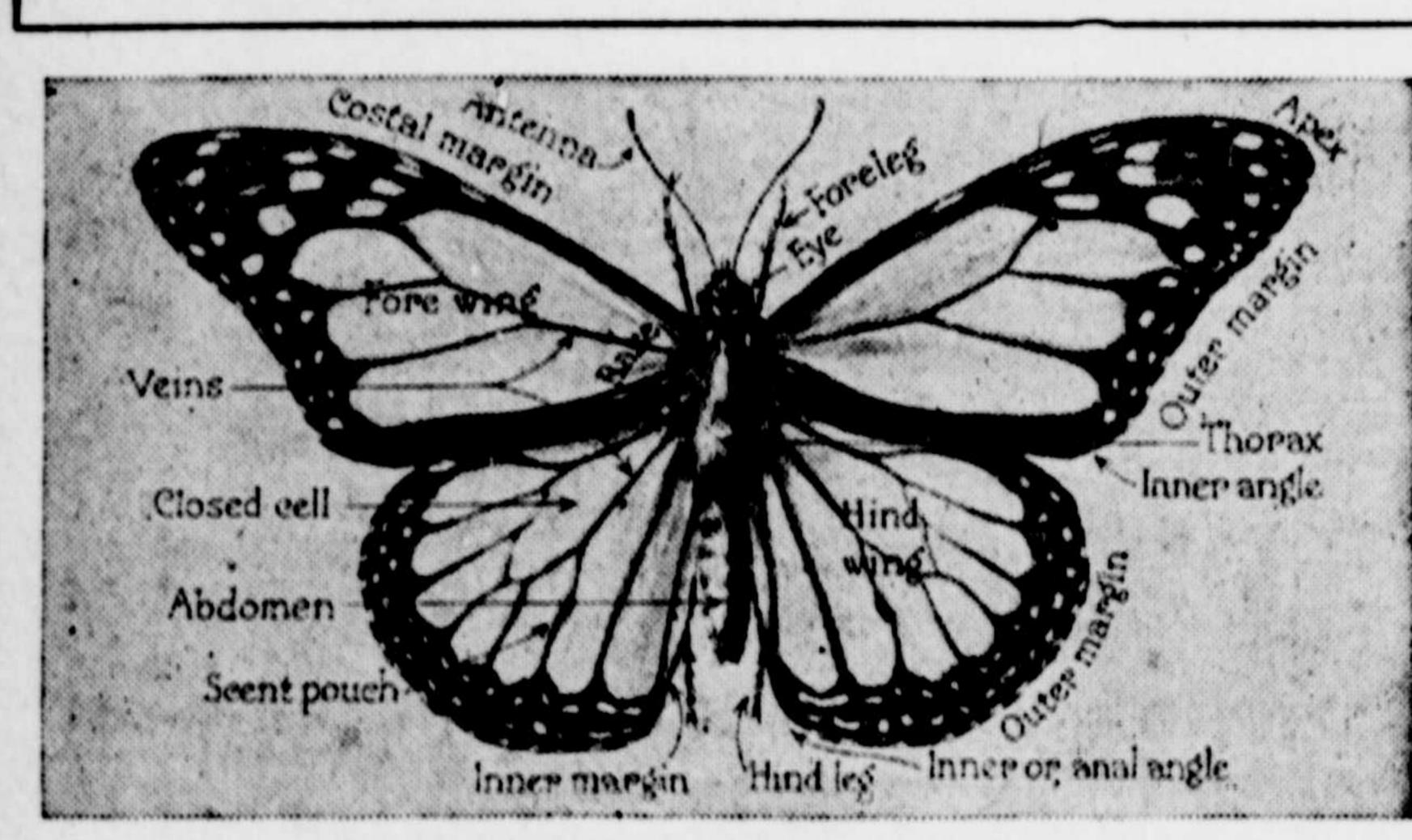
BUTTERFLIES THAT MIGRATE



Anatomy of the Monarch Butterfly.

Monarch and the Painted Lady Are Best Known of These Travelers v. s. s. Panay is

Painted Lady Also Travels.

Prepared by National Geographic Society. Washington, D. C.—WNU Service. ANY people believe that "The whole heaven was swarming count of the outraall butterflies live but a with butterflies. There were an in- geous conditions our few days, and that they | numerable multitude of them at all government is fackeep quite close to the locality | heights, from say 100 feet to a ing in the Orient. In where they hatch. This is true | height beyond the range of vision | the field of fictional of most species, but there are were flying due southwest in the "Snow White and others which live for weeks, face of a stiff breeze." sometimes for months, and in- | Shannon, in 1916, suggested that | Walt Disney's first stead of fluttering around they this butterfly used definite flight feature-length fanta- Walt Disney may set off in a definite direc- small number of records still avail- milestone. Any day now, Dopey, even thousands of miles from clusion is justified. their birthplace before settling down to lay their eggs.

This habit of changing location, migrant butterflies, more widely and Donald Duck. or migration, has been known to distributed but less completely unoccur in birds and locusts since derstood than the Monarch, is the ancient times, and has been sus- Painted Lady. pected for about a century in the In North America this butterfly is tures of theirs, having failed to find butterflies and moths. The cotton practically never seen in the winter any new story material as good. States was one of the first in North was recorded in Colorado on Janu- ter" as the first starring vehicle America to come under suspicion. ary 1, 1935!). In the spring in some for Isa Mira ide, famous Italian ac-Today the habit is also known years countless millions of Painted tress. This story, a spine-chilling beetles, particularly the ladybirds, nia (and probably also into Arizona, first filmed some ten years ago. and and more rarely in other groups New Mexico, and Texas) from some was an outstanding success among of insects.

The butterflies may migrate yond. singly or in large numbers. Flights | One such flight, seen by a scien- film "Trilby" again. This time estimated to contain more than a list in April, 1924, was at least 40 Claude Rains and either Anita Louthousand million individuals have miles wide and was passing for ise or Olivia de Havilland will play been recorded. The sight of one of three days at a speed of about six Svenhall and Trilby. these butterfly movements, the in- miles an hour. The scientist estisects passing for hours and even mated about 300 butterflies per days, steadily pressing on in one acre, or a total of about three thou- When you read that so-and-so Pumpkins and Squash direction, is an event in the life of sand million in the whole flight. | made a film test in New York and any naturalist.

incomplete information, much as 1926, and 1931, but in other years sound impressive. It should, howone might try to fit together a jig- scarcely any butterflies are seen. ever, for last year out of 52,000 saw puzzle of which most of the | The Painted Ladies spread north- applicants, only 56 won contracts. | tle, says Jerry Sotola of the de- clining years be burdened with an pieces have been lost, we begin in ward and eastward over the United Variety, the authoritative trade pa- partment of animal husbandry at extra family around the house. And in to sew now and make two or occupations of literature and philthe extent of the movements; of 1931 they were so abundant in some up and found that of the 52,000 apwhere the butterflies start, what of the North Central and Northeast- plicants, only 6,050 had auditions. route they take, and where they ern states that farmers rejoiced at Among these, 360 were given screen

come to rest.

Monarch Has Journeyed Far. grants is the Monarch or Milkweed | sects could not be encouraged! They | Frances Farmer, Don Ameche, and butterfly. This magnificent insect are not everywhere so popular, how- Tyrone Power. has its headquarters in North Amer- ever. ica and has spread, chiefly in hislands and Madeira in the Atlantic, the offspring of these immigrants, and to most of the islands of the except that they disappear. The Pacific. It is said to have reached most natural explanation would be New Zealand about 1840 and ap- that they return to the South in the

this belief.

Originate in North Africa.

Floating Stores on Ohio River

established. In the past sixty years nearly a hundred individuals have been seen in Great Britain and a much small- more definite flights in Europe and crowded into one picture. A lovely er number in France and Portugal. | North Africa. Swarms appear to newcomer, Ilona Massey, whom you Nearly all these were observed in originate somewhere just south or have probably heard on the radio, the autumn. The food plant, milk- north of the North African desert- makes you want to see and hear ness. weed, does not exist wild in Eu- belt in the early spring. They come more of her. Nelson Eddy works rope, so the butterfly has never into the coastal areas of North valiantly with all his heroic and become established there. It is not | Africa from the south about April, | vocal might. yet known for certain whether the cross the Mediterranean (some-European specimens have flown times in hundreds of thousands), across the Atlantic, assisted by the and pass more or less northward prevailing westerly winds, or have through Europe. They reach Eng- generous in the array of public idols been carried across in ships.

In North America this butterfly is beginning of June, and occasionally found during the summer through- carry on as far as Iceland, where out the United States and Canada | they have been recorded about six as far north as Hudson bay and, in | times in the last sixty years. the west, occasionally as far as Farther east they spread north-Alaska. In the early autumn, the ward through the Caucasus and on butterflies congregate into bands into Russia, where they have been and fly southward, starting from recorded almost as far north as the Canada about the end of August and | Arctic circle. reaching the Gulf states about the | Except in the extreme north, the beginning of November. On the immigrants lay eggs which hatch west coast they do not go so far and grow to be adults, and there south and may winter in the neigh- are some records of autumn flights Joe DiMaggio borhood of San Francisco.

Having reached the end of their the offspring of the spring migrants; bands, singing Phil Regan and Tasouthward flight, the butterflies set- but, as in North America, the evitle on trees, still keeping to their | dence is insufficient at present to large bands, and spend the winter prove a return to the south. If such in a state of semi-hibernation. They a return flight does take place, it is from crooning to hi-de-ho. flutter around a little on fine warm | probable that the insects move indays and in cold weather creep clos- dividually (as in the spring flight of er to the shelter of the trees.

the Monarch) and not gregariously. The same group of trees may be used year after year by hibernating of a flight is an observation made star, once held the high school debating Monarchs, although the same indi- many years ago in the Sudan, when championship in Kenosha, Wis. . . . Luise viduals never return south a second a naturalist in March, 1869, saw Barclay, NBC's "Woman in White," studtime. One of the localities on Point | thousands of chrysalides of the ied to be a concert pianist as did Ruth Pinos on Monterey bay, Calif., is Painted Lady hatch simultaneously Bailey, secondary lead on the same show a show place for visitors.

Return South in Great Swarms. In the spring the bands begin to and Canada at the end of May or | migrating quail.

So far as it is known, no Mon- records of mass flights out at sea "Cabin at the Crossroads," on the NBC archs are normally found in Can- between the African coast and the coast-to-coast network, was recently comada and the northern United States | Cape Verde islands, also in the plimented on her negro dialect work by during the winter, although individ- same two months. How these fit in no less an authority than Roark Bradford. uals have been seen in Toronto as | with the movements farther north is

late as the beginning of November. | not yet clear. The southward-flying swarms are often very conspicuous, as they may consist of tens of thousands of butterflies flying up to three hundred manufactories could be seen on the tially webbed feet and a long, bare feet or more in the air, and when Ohio river in the early days. Mer- tail. The fur resembles beaver, but they settle for the night they may | chants and manufacturers would set | is not as thick or durable. actually seem to change the color up stores and shops on boats that

of the vegetation by their numbers. | would travel from village to village Hamilton, writing of a swarm in offering drygoods, tinware and such | The letter of condolence written to New Jersey in 1885, said: "The mul- things and producing shoes, axes Mrs. Lincoln by Queen Victoria is titudes of this butterfly that assem- and scythes. Some boats were built in the Library of Congress, upon bled here in September are past be- as blacksmith shops, and the farm- exhibition there. It was written to lief. 'Millions' is but feebly expres- ers and village dwellers could bring express sympathy after the death of sive. 'Miles of them' is no exag- their horses on board to get them President Lincoln. geration."

STAR

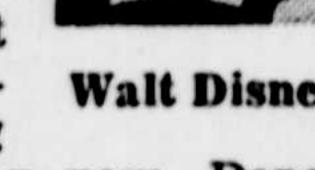
Movie · Radio *** By VIRGINIA VALE ***

HESE are stirring times in Improving Hatchability radio, motion pictures and newsreels for all three have reached a new high peak of By H. M. Scott, Associate in Poultry Husbandry, University of Illinois.

Rebievement With the Toscaachievement. With the Toscanini symphony concerts the National Broadcasting company course the flock must be protected she is keen on my living with her has deservedly won the greatest | from chill and extreme cold, but audience response, the highest | the practice of closing the hen house tributes from music critics, composers and musicians.

Norman Alley's Universal newsreel of the bombardment of the

graphic history that Ellzey, in 1888, describing a flight brings to every citithat he saw in Maryland, wrote: zen a first-hand acthe Seven Dwarfs,"



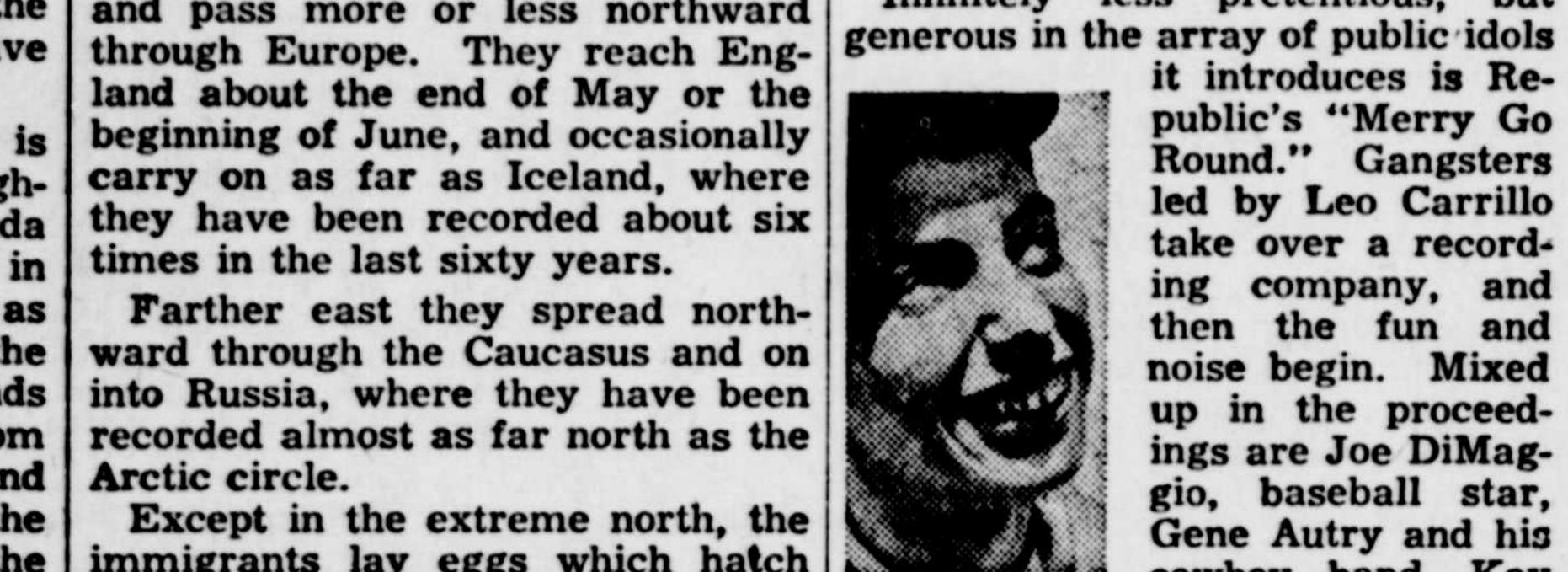
say, will take his place in your oil. Another of the world's great hearts along with Mickey Mouse

Paramount and Warner Brothers are going to remake some old picsome dragonflies and Ladies pour into southern Califor- thriller by Somerset Maugham, was unknown source in Mexico or be- early talking pictures. Warner Brothers feel that it is high time to

There are records of similar great was sent to Hollywood under con-By piecing together scattered and invasions in 1901, 1914, 1920, 1924, tract to make pictures, it may not a few cases to have some idea of States and southern Canada, and in per of the theatrical world, checked the wholesale destruction of their tests. Most spectacular successes thistles and asked the Department among the young players sent to By far the best known of the mi- of Agriculture if these valuable in- Hollywood a year or so ago are

We have to admit that nothing is toric times, to the Cape Verde is- yet known about what happens to scurrying around trying to think of because this feed is largely water. some new formula for making musi- When fed 3½ pounds of grain and peared in Australia about 1870. In autumn, as do the Monarchs, but its utmost limits. It has armies eat 30 to 40 pounds of chopped both of those countries it is now there is little evidence to support of dancing girls, platoons of sing- pumpkins with relish. ers, it has airplanes, boats, football players, it has more of every-The Painted Lady makes even thing than you have ever seen

Infinitely less pretentious, but



up in the proceed-

ings are Joe DiMaggio, baseball star, which are evidently composed of Calloway and Ted Lewis and their re-infection. mara Geva. The story never tries to make sense, just goes jocularly along its way with blasts of music,

it introduces is Re-

public's "Merry Go

led by Leo Carrillo

DON'T LOOK NOW BUT - Jim The only known record of the start | Ameche, twenty-two-year-old Grand Hotel

and the resulting butterflies fly off in | . . . Fibber McGee is an inventor of numerous household gadgets, including a de-Perhaps the best circumstantial vice which enables Molly to open the icebreak up, and the butterflies fly evidence of the return flight in the box door with a foot lever when she apnorthward individually, pausing here autumn comes also from Africa. proaches it with loaded platters in both and there to lay eggs as they go. They have been seen coming ashore hands . . . Frances Carlon, leading woman They start about March, reach the on the north coast of Egypt in Au- in "Attorney at Law," is the granddaughlevel of West Virginia about April, gust and September, along with the ter of John Carlon, first man ever to print the poems of James Whitcomb Riley . . . early June. The return flight starts | Farther south, in Nigeria and the First Nighter star, Les Tremayne, is an exafter about three generations in the Gold Coast, the Painted Lady ap- pert modeler in clay, a crack swimmer, a middle states, two in the north, and pears suddenly about September or fair swordsman, and a topnotch golfer ... after a single generation in Canada. October, and there are three or four Harriette Widmer, feminine emcee on

> @ Western Newspaper Union. Nutria From South Africa The nutria or coypu is a large aquatic rodent of South America. It Floating stores and even floating has large, reddish incisor teeth, par- 100 hens.

Queen Consoled Mrs. Lincoln

FARM

WINTER SUNSHINE

Eggs Is Important.

During winter laying flocks need all the sunshine they can get. Of door early and not opening it until do, reduces the hatchability of eggs laid during this period.

The first recommendation for the that fail to hatch. In experiments conducted at the

the flock because of extreme weath- | she sticks too long to a suitor who er, codliver oil is recognized as is unable to offer her an engageessential in securing good hatching | ment ring and a smart little apart-

use good grade alfalfa hay and milk of my husband's self-respect less than 5 per cent of dried milk | beloved? products or its equivalent in semimeal is used and is known to contain enough of dried or whole liver to make up at least 2 per cent of the total ration.

Alfalfa, milk and liver meal are vitamin is necessary for good hatch-

Make Good Stock Feed Pumpkins and squash, when used Washington State college.

Because of their bulk and high water content, pumpkins and squash | guest in the home of his wife's peoare seldom fed alone, says Sotola. | ple. In feeding them, they should be cracked open with a spade. There | they cannot help showing some reis no advantage in cooking pump- sentment over the situation. kins or squash for stock.

Hogs weighing 120 pounds will eat | DEAR MISS DENE: I have been 35 pounds of pumpkins daily but cal pictures, because they can't go | 25 pounds of pumpkins, the gains on making them bigger. "Rosalie" | will increase to 1% pounds daily if stretches the eye of the camera to the pigs are not too fat. Cows will

Dried pumpkins, when ground, resemble corn meal in value. Nutrition doctors say that yellow pumpkins and squash are good sources of vitamin A, which protects animals against colds and night blind-

Guard Health of Flock

merly, says Dr. F. N. Marcellus, -M. V. H. of the Ontario Agricultural college, ANSWER—You're too young to go is that the poultry population has in for reforming an indolent youth greatly increased in recent years. who uses your affection and your The health of the flock depends, good-nature as a pleasant refuge more than ever, he says, on proper from the cares of his crowded life. management of the flock. A supply | The fact that he is still adolescent of succulent green stuff at all sea- enough to gloat over the number of sons helps to avoid trouble. Build girl friends he's able to annex up and maintain physical condition | means that he can't be taken seto prevent disease. Water is most riously by anyone. Obviously the essential and a lack of it means im- reason he's treating you so badly is paired body condition. Dr. Marcel- that he feels it would injure his lus recommends the killing of in- reputation as a Don Juan if he were Thompson and her sected and diseased birds, for re- to show one girl too much attention.

Of Interest to Farmers Cotton is a major crop in 16

Every time the clock ticks, 1,000 hens lay eggs in the United States.

. . .

Most buyers of turkeys prefer birds of less than thirteen pounds in

. . . New York farmers have used cooperative farm fire insurance for one hundred years.

One cup of milk contains as much lime as 31/2 cups of carrots, 7 eggs. or 42 slices of bread. There is no food value in lobster

shells nor in ground oyster shells. The only value in these is the egg forming material—lime which they contain. English poultry dressing estab-

lishments have found that certain

methods of electrocuting poultry

makes the task of removing the

feathers much easier. To maintain heavy egg production, at least 25 pounds of grain and mash should be consumed daily by

. . .

Agricultural authorities estimate 18,000,000 bushels of apples are destroyed annually in the United States by the codling moth.

When Vitamin A is lacking in the poultry ration, a disease known as nutritional roup develops. Sprouted grain and green grass are sources of this necessary vitamin.

Young Couple Require a Home of Their Own for Happiness.

NEEDED BY LAYERS DEAR MISS DENE: I am twentyfive years old and the girl I love is very anxious to get married. of Her people have money and we can go to live with them after our marriage but I am against this. However, my fiancee insists and says she will not wait to marry me if I don't agree. Actually I couldn't give her a home of her own for two or parents, and for some reason I cannot look to the future with any enjoyment. I am worried and upset after Easter, as many poultrymen about this affair. Give me your opinion.—D. R. K.

ANSWER-When a maiden is so determined to marry that she actuimprovement of hatchability is the ally forces her young man to the altar greater use of free sunshine and against his wishes and against all green feed. It is estimated that rules of common sense, she is dempoultrymen and hatcherymen of the onstrating clearly the fact that she United States take an annual loss of is more in love with the idea of more than \$14,000,000 from eggs marriage than with her future hus-

And she is also showing a lack of National Agricultural Research cen- | character which bodes ill for her ter in Beltsville, Md., where the matrimonial future. It is sheer breeding flock was allowed outdoors | weakness to rush into marriage in the winter sunshine, the hatch- when there isn't sufficient capital to ability of their fertile eggs in- finance the undertaking. It argues creased 14 per cent. This increase | that the impatient lady is over-anxwas shown despite the fact that the lous to attain to the dignity of betion and fly some hundreds, or able makes it doubtful if his con- the little dwarf who never learned hens had previously received a diet ing a "Mrs."—that she is perhaps to talk because he had nothing to | containing 2 per cent of codliver | too much concerned with showing her friends that she's captured her Where it is necessary to confine | man-or that she fears ridicule if ment on the right side of town. Her Poultrymen who cannot obtain suc- | cry is therefore: "Give me marculent green feed in the winter may | riage at any price—even at the cost | with worm moth of the southern United in any stage (although actually one Paramount has selected "The Let- products. No winter ration for con- What kind of love is this-which fined breeding flocks should contain | demands such a sacrifice from the

And what kind of woman is this who solid or liquid form, unless a meat | welcomes the prospect of living in somebody else's home? Show me a woman who doesn't want a home of her ownwho doesn't long to be mistress of her | slip from twisting and turning and (in coins) each. own domain—and I'll show you a lazy keep it comfortably in place on little bride who prefers to have mother | the most strenuous day. The patdo all the working and worrying. Once tern includes built-up and strap potent sources of vitamin G. This this type of damsel becomes snugly en- shoulder-and you can make it sconced in mother's nice comfortable for your own wardrobe in a few home, it will take more than a mere used to having somebody else do the would usually spend. Keep the with perfect satisfaction except in man's wish to pry her out. Let her get planning and budgeting and she'll refuse | pattern, you will use it again and to change the state of affairs so long as a again once you see how really she lives.

Her family and her husband sufwith other feeds, make a valuable | fer the consequences. A too induladdition to the diet for hogs and cat- gent father and mother let their dea patient long suffering husband has three of them for Spring. This osophy.—Zimmerman. to get used to being a permanent dress (the one in center) is de-

However kind his in-laws may be,

in love with a boy for years. Motion - picture producers are | will gain only one-half pound a day. | He is popular with the girls, and although he says he loves me I have caught him cheating on several occasions. I have forgiven him, and taken him back time after time. have gone looking for him, when he has not been around to see me. He earns practically no money and is not a good worker. I want to help him as I know his upbringing was unfortunate. Sometimes he seems to care for me, and other times he doesn't write for months or come near me. I would be heartbroken to go through life without sizes 14 to 46 (32 to 46 bust). Size away in your bureau drawers are some RED CROSS Christmas Seals prior to 1925, him. Whenever I try to reason with him he reminds me that I haven't as many boy friends as he has girl The reason poultry diseases ap- friends. That is true as I am naturpear more prevalent today than for- ally shy and reserved. Please help.

radio chorus, Cab covered birds are often the cause of You can do him no greater harm than by encouraging him to believe your sympathy and devotion are always on hand when he becomes a little weary of his round of pleas-

You strengthen his conceit and his belief in himself when you take snub after snub and doggedly pursue him with the determination to reform him at whatever

No weak sinner was ever reformed by being spoiled, flattered and humored. Life must teach him some sharp lessons before he understands clearly the error of his ways and the necessity for re-

So if I were you, M. V. H., 1 should give your wandering hero a long rest and plenty of time in which to stand on his own feet and face his own problems without the comforting assurance in his heart that you're just around the corner waiting to spoil him to death when he is in need of sympathy.

No lazy, shiftless boy ever resolved to do better things because his sweetheart made it clear that she was an ever present source of affectionate sympathy. The wise girl knows when to withhold forgiveness in order to strengthen the character of the man she loves. © Bell Syndicate.—WNU Service.

Grief Real With Dogs Grief is as real with dogs as with humans; often causes death. Socalled "one-man dogs" are especially afflicted when separated from their masters. In an Edinburgh, Scotland, cemetery for humans is a monument to a collie. The dog, the famed Greyfriars Bobby, lay on his master's grave for 14 years. Legend has it that Argus, dog of the famed Greek soldier, Odysseus, died of joy when his master finally returned from his long absence on the battle fields.

Making Winter Hours Count



your hands. You can get your for Spring; your wardrobe in or- yard fabric is required. business of sewing.

Practical Slip. This four-gore slip is the choice | Circle Pattern Dept., 247 W. of every woman who likes com- Forty-third street, New York, fort. The side panels prevent the N. Y. Price of patterns, 15 cents hours at a fraction of what you

comfortable this dress is. Cheery Morning Frock. No matter how many of these divides a painful duty from an informal dresses you have, you never have enough. So start right | business from the more agreeable signed on clever shirt-waist lines and buttons from neck to hem. est, trimmest little frock you have THIS: ABOUT COLDS! ever seen. You'll enjoy it all

through the summer. Sweet and Simple. The figure at right is wearing (of these doctors) ing with two wide scallops trimmed in smart ruffling. Wear and wear it all through the Spring and Summer. It is one of the most popular silhouettes-nicely made up in silk or cotton.

The Patterns. Pattern 1437 is designed for Your attic, your desk, or possibly tucked 16 requires 3 yards of 39-inch ma- or you may find some old stamps on or terial and % yard ribbon for Pattern 1440 is designed for STURGES, P. O. Box 252, Astor Sta., Boston, Mass. shoulder straps.

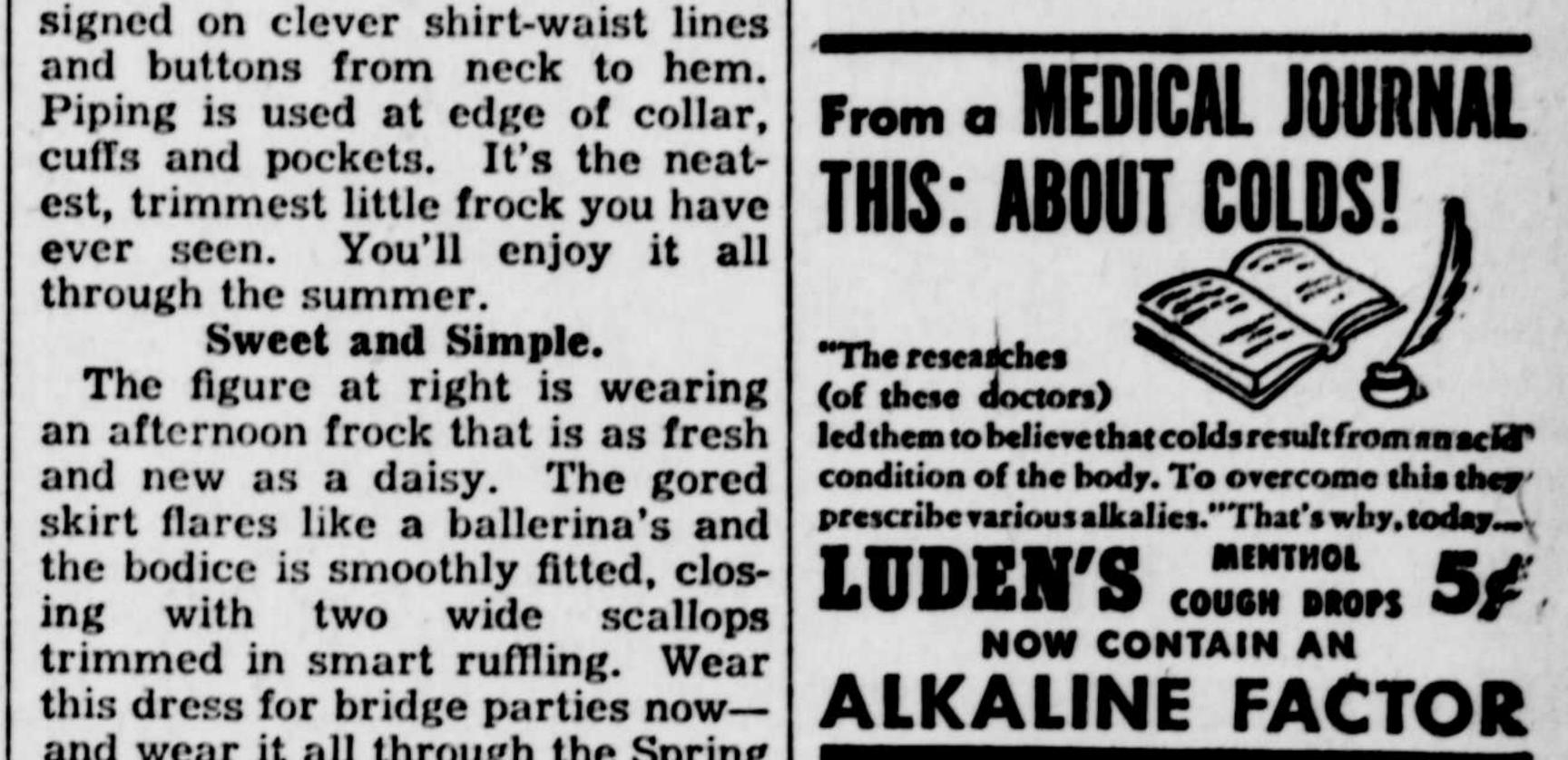
Spring wardrobe well started by sizes 12 to 40 (30 to 40 bust). Size making these days count. This 14 requires 41/2 yards of 39-inch is the time to sew and sew—and material and 2 yards of binding or then when the first crocuses show braid to trim as pictured. For their heads, you will be all ready | collar and cuffs in contrast %

der and the right clothes to wear. Pattern 1341 is designed for With sew-your-own patterns and sizes 12 to 20 (30 to 38 bust). Size a few yards of material, you can 14 requires 41/2 yards of 35 or 39make short work of this whole inch material plus 2% yards of machine-made pleating to trim. Send your order to The Sewing

@ Bell Syndicate. - WNU Service.

Perfect Leisure

Leisure, the highest happiness upon earth, is seldom enjoyed solitudes. Indolence and indifference do not always afford leisure: for true leisure is frequently found in that interval of relaxation which agreeable occupation; a toilsome



envelopes prior to 1900. Drop a line stating what you have and the price you want, to

Calotabs Help Nature To Throw Off a Cold

Millions have found in Calotabs | toxins. Second. Calotabs are ment of colds. They take one or the elimination of cold poisons two tablets the first night and re- from the blood. Thus Calotabs

throw off a cold? First, Calotabs of colds. are one of the most thorough and | Calotabs are quite economical; dependable of all intestinal elimi- only twenty-five cents for the nants, thus cleansing the intestinal family package, ten cents for the

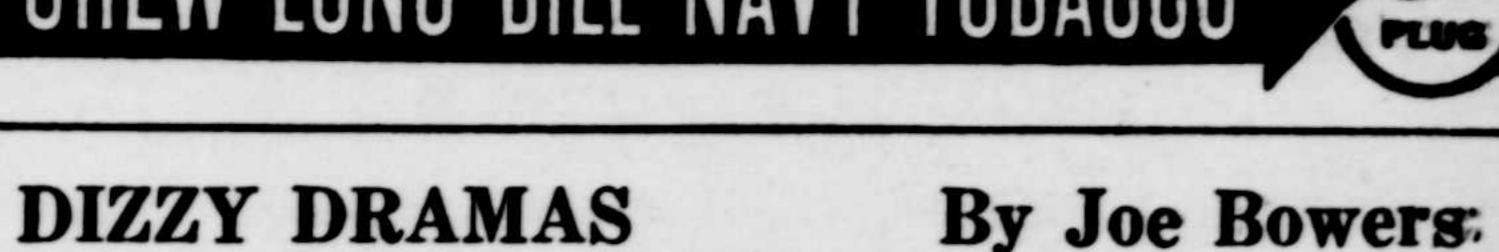
a most valuable aid in the treat- diuretic to the kidneys, promoting peat the third or fourth night if serve the double purpose of purgative and diuretic, both of How do Calotabs help nature which are needed in the treatment

A Thought A little explained, a little endured; a little forgiven and the in life. And life is in labor."-

quarrel is cured.

tract of the virus-laden mucus and trial package.—(adv.) Life Is Labor "The happiness of men consists

CHEW LONG BILL NAVY TOBACCO



Count Tolstoi.

YOU'LL EVER GET) SURE! DO YOU THINK MARRIED ?









