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# Is Helped By Mulch

Where red raspberries are grown in North Carolina, that is from Raleigh west, they are much more vigorous and productive when grown in a mulch of straw or old leaves than if they are clean cultivated. In field culture in the Raleigh area, not only is the vigor of plant very low with clean cultivation, but the survival of plants after the first season is also very poor.

The Department of Horticulture of the N. C. Agricultural Experiment station for the past few years has been testing the use of various kinds of mulch materials on red raspberries, to determine some of the factors limiting their production in this region, and to find out why a mulch is as effective as it is, according to C. F. Williams, research associate professor of horticulture at State college.

Materials Used

Five different materials, grain straw, legume hay, pine straw, sawdust, and rock wool-are being tested in comparison with clean cultivation and with clean cultivation plus a top dressing of stable manure. Because the use of a mulch requires additional nitrogen fertilization, varying amounts of nitrate of soda are used with the different mulches to equalize this factor.

The results obtained to date, although not conclusive as yet, should be of interest to those attempting to grow raspberries or are using mulches on other plants.

In this experiment, although the average height of cane has been approximately the same on each of the plots, the number of canes per hill has varied with the material used. Each mulch material, even rock wool, has produced more canes per hill than clean cultivation, with legume hay giving the best results with almost twice as many canes per hill as the clean cultivated plots. Except in the case of grain, straw and sawdust, mulching has doubled the amount of total cane growth per hill. In the second year of the experiment, almost four times the amount of cane growth was produced per hill as the first year. **Yields Cited** 

In the first bearing year, the yield in pints of berries per 100 hills were as follows: Clean cultivation 64 pints, grain straw 86, sawdust 85, pine straw 180, legume hay 278, manure 219, and that of clean cultivation, and a 14. manure top dressing was a close though extra nitrate of soda had been applied.

"Doc," said he, "if there's anything the matter with me, don't frighten me half to death by giving it a scientific name. Just tell what it is in plain English."

"Well," said the doctor, "to be frank with you, you're just plain

lazv." "Thank you, doctor," sighed the patient with relief. " Now give me a scientific name for it, so I can

go home and tell my wife." -Circle News.

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# **Rod And Gun**

By Tom Walker

No Closed Season

Board of Conservation and Development has taken a step which will increase interest in sport fishing, the division of Game and Inland Fisheries believes.

First of all on recommendation of the Division, the Board voted to abolish the closed season on all species of game fish except trout, with the understanding that spawning areas will be designated as such and closed during the spawning season.

Several factors prompted the Division to submit this proposal, which was drawn up by Dr. Willis King, supervising fisheries biologist. For one thing, the new rule will obviate the practice of designating streams open for the taking of non-game species during the closed season, and the designation of impounded waters to be open to year-round fishing. Experience gained this year in openin the reservoirs and large lakes to year-round fishing has been favorable to the new plan.

For another, the closed season has protected only bass, while other fishes were largely unprotected. Biologists now believe it is impossible, by pole and line fishing, to take more than 50 per cent of the warm-water fish in any pond, lake, or stream, (thus assuring the leaving of adequate breeding stock), because the fish, as the population decreases, don't have to look for fishermen's bait for something to eat. In other words, the fish can more or less take care of themselves under increased fishing pressure. Also, bass are not readily taken from their spawning beds.

The new plan also will eliminate confusion arising from numerous exceptions, and will alleviate the problem of law enforcement. There was year-round fishing in 1945 and 1946 in several large reservoirs, in commercial waters, in Currituck Sound, and in Lake Mattamuskeet, and there has been no closed season in private ponds. The Easter holiday problem also will be eliminated. In the past this period often has fallen during the closed season.

Under the "no closed season" rule, it is expected that spawning areas will be set up to protect smallmouth bass in western streams, and blue bream and robin in the Costal Plain. These will be selected and advertised each sea-

son. rock wool 150. Thus, the yields the same—the season will be with legume hay were four times closed from September 1 to April

In this connection, 11 states second best. Yields with grain have had no closed season on landmarks (or pylons), the flight straw were surprisingly low al- black bass, and 22 have no closed season on pan fish.

Size Limits

size limits on all pan fishes and the turns. in standardizing the size limit on black bass on a Statewide basis black bass now will be 10 inches; turns. previously the limits were 10 sally adopted rule. Other size

it is good management to remove other states which have no size

limit on pan fish. Creel Limits

the past. For a reminder, here from the pylon as the first turn limits will remain the same as in was started around the first pylon. they are: trout, 12; black bass, 8; 20; white perch and crappie in of perch and sunfish not listed posite pylon for a second turn above, 20. The day's limit is 25 around this pylon. fish of all species combined. Two License Time

are in the hands of district fish pylons remains the same through and game protectors and their the turns. agents, and if you haven't already done so, it's time to see about get- pensating for drift in the turns ting yours. The licenses are valid and during straightaway flight from August 1.

Here are the licenses offered and the cost:

State resident (Statewide), \$3 10; non-resident (Statewide), \$15.75; county resident (resident county only), \$1.10; State resi-In acting last week to simplify dent trapper, \$3.10; county resi-North Carolina fishing rules, the dent trapper, \$2.10; resident combination hunting and fishing (Statewide), \$4.10; and hunting guide, \$5.25.

# "Fly" Says Bill

Series of Eights (Elementary No. 3)

In this maneuver you use the same type of landmarks that you used in making the No. 2 elementary eight, that is, the intersection of two landmarks such as roads or fence lines, which lie at right angles to each other. Your plane's path over the ground should describe a figure eight, the two loops of which lie along the crosswind landmark.

To begin the maneuver, start side of the landmark which lies cross-wind, and over the right or left of the intersection of your two landmarks far enough so that you fly toward the intersection, your flight path will bisect the 90-degree angle between land-

Then fly directly towards the intersection. When you reach the flight for a short interval, and then start the first loop of your

Vary your bank so that your plane will cross the road at a right angle at the end of the loop of your eight. Then continue your turn, and plan your recovery so that you will come out of your turn headed toward the intersection, and will have an interval of straight and level flight before passing through the intersection.

After you pass the intersection, continue straight and level flight for a short interval, and then make the other loop of your eight. Again be certain that your plane is at right angles to the road at the end of the loop of your eight.

Your flight path through the intersection of the landmarks, between the loops of your eight, should approximately bisect the 90-degree angle between these landmarks. Remember, that in order to maintain this flight path, you will have to "crab" a little into the wind.

Remember the general principles you learned earlier regarding varying the bank to correct

"Eights" Around Pylons

Pylon Eights (or eights around pylons) is a maneuver in which the plane is flown around two path having the shape of a figure "8", both loops of the eight being identical uniform distance from The Board's action in removing the pylons maintained throughout

Two large trees, intersections, or other landmarks are selected also will eliminate confusion and that are directly cross-wind and simplify the enforcement problem. far apart enough to allow a short The Statewide size limit on straightaway flight between

The maneuver is started by flyinches in the west, 12 inches in the ing at an altitude of approxieast. The 10-inch limit is a univer- mately 600 feet directly downwind toward the point halfway limits remaining in effect; striped between the pylons. When the bass, 12 inches; trout, 7; muskal- plane reaches the down-wind side lunge, 22; and wall-eyed pike, 15. of the pylons, start a 45-to 50-Size limits on pan fish were re- degree-bank turn, to the left or moved in the interest of sound right into the wind, around the management. It has been found first pylon, keeping the distance that usually when small fish are from the pylon the same throughbeing taken in large numbers, it out the turn by varying the degree is a sign of overpopulation, and of bank to compensate for drift.

As the plane approaches the opthem. North Carolina joins 30 posite side of the pylon (the upwind side) roll out of the turn and head the plane to the point opposite the other pylon (on the North Carolina daily creel down-wind side) the same distance

When opposite the second pylon muskallunge, 5; wall-eye, 5; (on the down-wind side) start a striped bass (rockfish), 8; red turn around this pylon, keeping fin (yellow perch), 20; bream, the distance from the pylon the robin, warmouth, rock bass (red same through the turn by varying eye), 20; crappie, 20; white perch, the bank to compensate for drift. When the turn is completed Lake Waccamaw, 12; all varieties head the plane toward the op-

Remember to start and stop days' creel is the maximum that your turns around the pylons so can be in possession at any time. that both loops of your "8" will form the same path over the Hunting license for 1946-47 now ground and the distance from the

> Care must be exercised in combetween pylons.



While Walter Winchell is on vacation, Jack Lait, writer of the "Broadway and Elsewhere" column, will appear in this space as guest columnist. Winchell's column will be resumed on his return in September.

Follies of 1946-

The dogdays are here. . . shouldn't happen to a dachshund. Winchell is on vacation, meaning he can get up at 7 p. m., in-. But the show must go on. . . . So Lait will jiggle the dots and juggle the dashes. . . . It's fun. . . . Let's get started! Unreported incidents in Holly-

of information, which never sleeps,

never drinks, seldom eats: Betty Grable said she would not accompany Harry James east on his sixweek tour. Almost as soon as he got -for New York. . . . Before John Perona flew to Paris, Mary Pickfrom a position on the up-wind ford gave him a solid gold St. Anthony's medal. begged Howard Hughes to take him up on that test flight and was turned paying \$2,000 to advertise its picture-to-be, "The Egg and I," on an ostrich egg which is being hatched at a farm which raises the big birds in Pasadena. Thousands visit there daily. The deal is that as each party goes through, the mother ostrich is to be shooed off her future offspring, so that gawkers can read the copy. There are seven words painted on the egg, which figures out at a rate of \$275.75 per word.

> The following acknowledgment is being received by those who order from a large Manhattan auto agency: "We are enclosing herewith accepted copy of your order, subject to further delays due to conditions beyond our control. Delivery should be expected from 18 to 25 months."

Department of internal revenue has had an agent in Hollywood checking into the extraordinary number of refunds claimed and gotten by high-salaried movie people. By virtue of an ancient law, the government pays 6 per cent interest on sums paid and held, until refunded. There is virtually no such thing these days as a 6 per cent investment, but anyone who wants to miscount or forget to enter a just and probable claim for allowance can draw 6 per cent on such a sum, plus retrieving it in full. During 1945, the United States paid out \$17,000,000 of such interest. In 1944, the amount was \$23,000,000. This year, the interest will be only about \$4,000,000, as the government is "hep" and rushing the kickbacks. Most of this, of course, is legitihave deliberately used it as a racket.

Howard Hughes, the incredibly rugged individualist, despite his excruciating physical agony and his multifarious mental misgivings, has refused to take one sedative. . . Even the mildest sleeping-aids and pain-relievers, given patients who stub a toe, he has stubbornly turned down. . . . In fact, he refused to eat or drink, fearing some palliative may have been slipped in. . . . He has lived entirely on orange juice since his injuries, and demands that it be squeezed in his presence, from the fruit, uncut until he sees it halved. . . . Physicians say they never heard of such a case. . . . But who ever heard of a Howard Hughes before?

Father Andrew Cervini, Jesuit missionary, who lost his left foot while a prisoner in a Jap camp, has just finished a book of his experiences. . . . The publishers weighed several titles. . . . Then Jim Harkins came up with, "How about 'One Foot in Heaven?"

Jane Churchill, the girl-in-themiddle of the Tommy Dorsey-Jon Hall imbroglio, dyed her hair red and is in New York, trying to get a show job. . . . John Gart, the musical director, tells of a young male bit-player in Hollywood, assigned to escort a famous film beaut to a premiere. Next day he grumbled because it was such a terrible picture, he could hardly concentrate on it. . . "This Is Your BI," official air program, reveals: "America's annual crime bill is 17 billion dollars; its total education bill-from kindergartens through colleges-is less than four billion dollars."

Lt. Col. Gregory ("Pappy") Boyington has written his own story of his life and adventures, military, matrimonial and miscellaneous, and the script probably will be sold to a wealthy Californian who likes to dabble and gamble. . . . The deal calls for book publication, to be followed by a film based there-. . . Bill Cagney is interested in that, and his brother, Jimmy. may play the happy-go-lucky hero. Pappy isn't temperamental, tells all, ducks nothing, personal or

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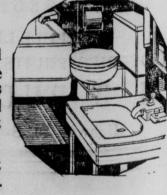
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