## **O'NEILL FRONTIER**

**Innocent Victim of** 

New York Gang War



### SAVING LABOR IN HAYING

In this age of labor-saving machinery on the farm, plus the need of keeping production costs at a minimum, alfalfagrowers will do well to follow what is known as the Dain system of curing their hay crop. When compared to the older methods of raking and cocking, this system will, on a average, save 45 per cent of the labor of haying.

Briefly, the Dain system is this: When the hay is ready for harvest, the mover is started as usual, ex-cept that no hay is cut in the morr-ing until the dew has dried off. This, in itself, expedites the curing process because it leaves a minimum of moisture to be dried out of the

The side-delivery rake is started immediately following the wower. The interval between cutting and raking should never be more than three hours, and it is considered best, whenever, tractor or the the hitch will allow-to carry the rake in tandem behind the mower, thus completing the two operations at

one time and by one man. A left-hand side-delivery rate is preferable for the reason that its action is to put the hay into a win-drow in such manner that most of the stems are exposed to the sun and air for drying, while the leafy parts of the plant are in the cen-ter and are not largely exposed. Each day of the harvest the rake

were made the day before—this is again used on the windrows that were made the day before—this time, giving the windrows a half turn, moving them closer together so that the loader may work at full capacity when the hauling stage is reached, and also hastening the curing process by exposing the under stems to the sun.

In this turning operation, the rake is so driven that the left eno-just nicely catches the windrow and upsets it.

Curing may require two or three days, or longer, depending on the weather.

weather. If it rains—well, let it rain. When it has dried off again, go out and turn the windrows with the rake. A western state college farm has put up alfalfa hay after it had gone through eight rains. When this hay came out of the barn in the spring, it was labeled as U. S. No. 2 grade by a federal inspector. It was No. 2 hay because it had, quite naturally, lost some of its desirable color—but the leaves were all there.

### MARKETING SQUABS

A knowledge of market requirements is indispensable to success in squab raising, especially at the pres-ent time when the industry is fac-ing a period of heavy production. First of all, squabs must be dressed at just the proper stage of develop-ment—that is, at four weeks of age. The big markets insist on light-colored squabs and, other things being equal, pay much more for them. Size has a direct bearing on price. The highest prices, of course,

age averaging 1.117 pounds. topped the market. The next year calves at 410 days of age averaged 969 pounds each. One of the secrets of this man's excellent record is the use of a creep for the calves where they could get grain at an early age.

SAVE ON FEED PURCHASES

The dairyman who exercises good judgment in buying feeds for his dairy herd can make a big savings. There are two directions in which savings may be made in feed pur-chases. One is in buying at the proper time of the year and the other is in buying in large quan-tities. In a study of the prices of feeds, as reported by the Bureau of Agricultural Economics of the Unit-ed States Department of Agriculture, it was found that August and Sep-tember were the two best months to buy mill feeds such as bran, linjudgment in buying feeds for his to buy mill feeds such as bran, lin-seed-oil meal and cottonseed meal. This study included a two-year pe-ricd, 1927 and 1928. In the above peried, bran varied from \$23 a ton in August to \$31 a ton in May. Linseed-oil meal varied from \$46 in August and September to \$52 in December. In 1927, cottonseed meal varied from in 1927, cottonseed meal varied from \$36 a ton in Jenuary to \$49.60 a ton in December. In 1928, cottonseed-meal prices varied from \$47 a ton in May. For farmers in the middle west, late summer and early fall have usually constituted the best time to buy the high-protein feeds which are needed to balance our farm feeds of corn, oats and bar-ley. As an illustration of how buyley. As an illustration of how buy-ing in large quantities may affect prices, members of one of our eow-testing association last fall were paying \$36 a ton for bran; another member that bought in carload lots secured bran at \$26—a saving of \$10 a ton. A saving of over \$6 a ton was effected in linseed-oil meal pur-chases by the carload as compared with buying by the 100 pounds. An even greater saving was secured by buying cottonseed meal by the ton. In many of our some 100 Iowa cow-testing associations members buy carloads co-operatively at great sav-ings, and they are also watching the feed market to buy at the most advantageous times.

### **BED HOG CARS WITH SAND**

The shipping seasons are called co.d. cool, warm and hot respective-ly. The shipping seasons are as fol-lows: Cold, when the temperature is under 40 degrees. Cool, when the temperature is under 60 degrees Warm, when the temperature is under 80 degrees. Hot, when the temperature is over 80 degrees. A thorough cleaning of the cars will cut warm weather losses very mark-edly and has comparatively little ef-fect on cool and cold weather ship-ments. A western university reports a study in losses of hog shipped in cars with different types of bedding Following is the record of dead hogs according to the bedding used: The shipping seasons are called according to the bedding used: Sand-bedded cars averaged 1.05 dead according to the bedding used: Sand-bedded cars averaged 1.05 dead hogs per thousand; cinder-bedded cars 1.82, diri-bedded cars 2.08, old bedding or cars not cleaned 2.21, and no bedding 2.33. Hogs bedded with dirt soon wallow in mortarlike mud make a bad appearance, as they will be smeared all over with dried mud When the temperature reaches 80 degrees or more the death loss is greatly increased if the hogs are fed in the car. Up to 75 degrees the loss does not seem to be affected by car-floor feeding. With hot weather, car-fed hogs have an average death loss of 6½ head per 1000; and cars not floor fed. a loss of 3¼ head per 1,000. Corn Belt shippers do well to avoid car feeding from around May first to November first. The foregoing figures on bedding are the records for all kinds of weather—cold, cool warm and hot seasons. There is a big advantage in bedding with sand during warm and hot weather. During such weather it is a good and common practice to sprinkle or wet the hogs in the car to cool them. Sprinkling the hogs makes the car the hogs in the car to cool them. Sprinkling the hogs makes the car floor wet and the hogs slip badly, except when bedded with sand. Slip-pery footing brings heavy loss in deaths and cripples. **PROFITABLE BY-PRODUCTS** The by-products of the apple or-chard are annually receiving more attention from fruit growers, espe-cially those selling at roadside of farm markets. They have learned how to market high-quality fresh ci-der. Along with the development of the cider business has came renewed interest in apple butter. Commercial preserving factories have so largely supplanted the old-fashioned meth-ods of making apple butter on the farm that what was once an annual event, the same as butchering day, has become almost a lost art. The development of farm markets has PROFITABLE BY-PRODUCTS event, the same as butchering day, has become almost a lost art. The development of farm markets has, however, given the fruit grower an opportunity to dispose of some of the lower-grade apples in the form of apple butter. The methods of manipulation range all the way from the old-fashioned open-kettle hand-stirred process, with the resulting dark-colored butter, to miniature commercial factories. The methods used are less important than the time required and the resulting product. Comparatively simple equipment is required to make a butter of high quality and good col-or. The essential equipment in addi-tion to the elder press is a steam boiler; a steam jacketed kettle, eith-er copper or nickel; and of course a paring machine and pulping device. The containers used depend upon lo-cal preferences, and a little experi-ence is necessary to determine best cal preferences, and a little experi-ence is necessary to determine best methods of selling. Quality in apple butter is determineed by the variety of apple used for the base, and the method of cooking. Preferences as to color and consistency vary in differ-ent sections. The various agricul-tural colleges are familiar with the formulas preferred in their states. In general, the butter made by using four gallons of cider, one bushel of apples and five to ten pounds of sugar, with a small quantity of spice added, has been satisfactory in this section. fects in either the fruit or seed. This type of work opens the way to an important and interesting method of breeding squashes. It shows the of breeding squashes. It shows the possibility of obtaining pure varie-ties, keeping them pure and retain-ing any good characters that they may possess. It has been the general rule in cross-pollinated crops, such as corn, that they reduce greatly in vigor on being inbred. This is true in corn, clover, sorghum and other crops. On the other hand, it has been found that in timothy and, as mentioned above, in squash, that on being inbred, many lines do not lose their vigor and are as good as the parent material.



# Joy Ride 'Neath Fleecy **Clouds Ends in Gas Pits**



# Pride of Uncle Sam's Under Water Fleet



# The model V-5 submarine re-cently added to Uncle Sam's fleet as it appeared at Annapo-lis where final preparations are

being made for her inaugural cruise to South America. This biggest submarine in the American navy is 371 feet long, has a beam of 33 feet and draws 16 feet of water. The V-5 will re-ceive her official navy tests in October.

(International Newsrool

# **Drought Marks Quaker City**



Widow of Liner Captain





are paid for squabs weighing around 12 pounds to the dozen. Taking the New York market—the largest squab outlet in the country—as a criterion, the 11 and 12 pound sizes have averaged about 15 cents per pound more than the six or seven pound sizes, and 5 to 10 cents more pound sizes, and 5 to 10 cents more than the 8 to 10 pound in recent years. The demand for small and dark squabs is steadily diminishing as they are being replaced by small broilers. Mixed weights seldom sell for as much as the same sizes would if graded. Usually such squabs have to be graded after arrival, which is the most expensive way— and the producer pays the bill any-how. Practically all important buy-ers want a definite size and cannot use mixed sizes to good advantage. Western producers have been able to compete successfully in Eastern to compete successfully in Eastern markets largely because of proper sizing and the use of convenient-sized packages. If the shipment is sized packages. If the shipment is large enough to make it feasible, it should be graded for size. Not every poultry dealer is able to sell squabs successfully, so they should be con-signed to a deoler who specializes in them. Dressed squabs can fre-quently be sold direct to hotels and resorts. Some growers may find quently be sold direct to hotels and resorts. Some growers may find this a more profitable outlet than the big city trade. There is a mod-erate demand for live squabs in the New York market and here size counts even more than with dressed squabs. During 1929 the average price of jumbo squabs was slightly more than twice that of ordinary squaba squaba

BEEF CALVES NEED CREEPS Only a limited few of our babybeef producers have come to realize beef producers have come to retilize the advantages of using a creep for their calves, especially at this sea-son, when pastures are drying up in many regions. When pastures be-gin to dry up, cows fall off in their milk flow rapidly. Supplementary feeding at this time is especially de-sirable to retain the calf fat, which is soon lost if the cows go down in milk flow and the calves are getting no grain We well know that it is milk flow and the calves are getting no grain. We well know that it is much cheaper in producing baby beeves to hold the calf fat by prop-er feeding than it is to lose that fat and then later attempt to build it up. Successful flock owners long appreciated the advantages to be realized from creep feeding of lambs. Likewise many swine feeders have Likewise many swine feeders have been using creeps for the small pigs-getting them started on a grain ration before the pigs are weaned. Baby-beef producers for some reason have not so widely adopted the use of creeps. The pure-bred beef men have taken ad-vantage of this practice more than the men producing for the market. At no time will a pound of grain produce so high returns in terms of grains as it will when an animal is young. We need to adopt the use young. We need to adopt the use of creeps more widely if we are going to produce baby beeves most economically. For example, in our car-lot baby-beef contest, J. H. George, of Corning, Ia., marketed 15 head of Herefords at 15 months of

INBREEDING SQUASHS INBREEDING SQUASHS The squash has always been con-sidered a vegetable which is pro-duced by cross-pollination: that is, it reproduces in the same general way as corn. Similar to corn, there-fore, practically all the squash va-ritles were made up of a large num-ber of variable strains. A variety, such as the Hubbard, is so variable that many growers do not know just what the type should be in this variety. One experiment station has Just what the type should be in this variety. One experiment station has produced some pure strains of Hub-bard squash by 10 successive gen-erations of inbreeding. The experi-mental work shows that continuous inbreeding in these strains of Hub-bard squash has progured no ill et-

at Chicago proved fatal to Mary Laws (upper) and Eugenia Laws (lower). The plane collided with a gas tank during the tour. (International Newsreel)

**Kansas Tomato King Shows Fruits of Labor** 



One of the wonders of the world One of the wonders of the world are these tomatoes, grown by Walter King, of Kansas, better known as the Tomato King. Although a plumber by trade, King has been cultivating tomatoes in his back yard for more than five years with such results as to five years, with such results as to astonish incredulous visitors. (International Newsred)

A view of the Green Lane Bridge, Philadephia, Pa.. over the Schuylkill River, showing how low the water has sunk during the present drought. The bed of the river is shown, above water, for the first time

since the bridge was built in 1818. Water has ceased to pour over the Fairmount Park Dam, thus giving grave appre-hension to residents of this city, who now fear a shortage of water.



British Peer Seeks Liquor Substitute



The venerable Viscount d'Aber-non, chairman of the wartime Liquor Control Board, has startled liquor interests by declaring that the world greatly needs a substi-tute for alcohol as a beverage. "Alcohol does badly what it sets out to do," is the explanation given by Lord d'Abernon of his stand.



Joy Ride Ends in Gas Pits



Falls into gaseous pit! Photo shows top of huge gas tank at Chicago, Ill., after an airplane, struck by lightning, fell in flames and crashed through the heavy steel plates of the tank. Fixemen are shown preparing

grappling hooks to drag the bot-tom of the black cavern contain-ing forty feet of water in an effort to extricate the plane and the bodies of those killed in the wild plunge.

(International Newsree

