

DAIRY

ALFALFA HAY BEST FOR DAIRY CATTLE

Alfalfa hay proved superior to sudan hay as a feed for dairy cattle at the Hays (Kans.) experiment station in the third trial comparing the merits of the two feeds, according to the report given by Prof. J. B. Fitch at the annual Kansas roundup.

This trial, conducted during the past year at the Hays station, gave results agreeing with those obtained in the first trial when cows fed alfalfa hay, kafir silage and grain in proportion to milk production produced 13 per cent more milk each day than the same cows when sudan hay was substituted for alfalfa hay.

In the second trial, however, the cows fed sudan hay, kafir silage and a liberal grain ration produced slightly more milk each day than the same cows when alfalfa hay was substituted for the sudan hay.

Eight Holstein cows were used in the third trial. They averaged 575 pounds of milk and 21.5 pounds of butterfat daily while fed alfalfa hay as compared with 511 pounds of milk and 19.7 pounds of butterfat on sudan hay.

"Cows fed alfalfa hay, kafir silage, and a liberal grain ration, produced 8 per cent more milk and 10 per cent more butterfat than the same cows when fed sudan hay," said Professor Fitch in summarizing the results of the third experiment. "The body weights of the cows were practically constant during the three periods. The alfalfa hay was consumed in larger amounts than was the sudan hay."

"In two of the three feeding trials comparing alfalfa hay and sudan for dairy cattle at the Hays station, alfalfa has proved to be better than sudan. In the trial where sudan proved better than alfalfa, the alfalfa hay was of inferior quality. In all three trials the liberal grain ration and the relatively short feeding periods apparently have reduced the difference between alfalfa hay and sudan hay. This statement is made as the result of a large number of feeding trials with dairy cows comparing feeds similar to those used in this experiment. Alfalfa hay and sudan have practically the same amount of digestible protein as has sudan. The quality of the protein in alfalfa is also superior to that from other hay crops and grains that have been compared experimentally to date. As a source of minerals for dairy cows the legume hays, and especially alfalfa, are of special importance. To maintain milk production and body weight over a large period of time when on sudan hay cows must be fed a grain ration containing a protein supplement. In regions where alfalfa cannot be grown and where it is high in price it is desirable to feed three or four pounds of alfalfa daily to dairy cows as an additional source of minerals and for the protein it contains."

Soy Beans Are Superior as Protein Supplement
Cracked soy beans are equal or slightly superior to linseed oilmeal as a protein supplement for dairy cows. After three separate trials with this new feed, investigators at the Iowa experiment station have reached the above conclusion.
Furthermore, they demonstrated that soy beans do not cause scours under the conditions existing in the experiment. The basal ration consisted of corn silage, alfalfa hay, cracked corn and ground oats. Roughage was fed according to the capacity of the cows and the grain mixture according to production.
No tendency in the beans to become unpalatable over long feeding periods was observed so long as a daily allowance of four pounds was not exceeded.
When the price for soy bean seed gets lower and reasonably large acreages are planted, soy beans can be extensively used.
Soy bean oilmeal, which is the product left after oil extraction, was also tested at the Iowa station. Its value was found equal to that of linseed oilmeal. The relative prices of the two feeds will determine which is the better to buy.
Planted with corn for silage, soy beans did not show any value, according to the Iowa tests. Work done so far indicates that corn silage is of practically the same value as corn-bean silage for the production of milk and butterfat. The tonnage per acre showed an increase of 5.69 per cent where the two crops were grown together, compared with corn alone. The costs for seed and soiling largely offset the advantage in tonnage, however, making straight corn silage practically as economical as corn-bean silage.
In the first trial the percentage of beans in the silage was about 3 and the second 25. No advantage was noted in the increased percentage. There was practically no difference in the palatability.

High Honor, But Little Salary
To serve as premier of France is not only difficult but very expensive. The head of the French government receives less than \$8,000 a year in salary and since in the last 30 years no French premier has been in office for a longer period than 23 months, none of them has been able to take advantage of the law granting "a life-long pension after six years spent permanently in office." Aristide Briand, who has been premier seven times, lives in a small apartment in Paris and cannot afford to employ a servant. The wife of the janitor does the daily cleaning and when a caller rings Briand's doorbell the old statesman opens the door himself. Edward Herriot, who knows that French premiers do not remain long in office, did not resign his position as mayor of Lyons, a position he has held for 20 years. Every Saturday afternoon he went to his home town, 300 miles from Paris, and spent Sunday attending to the affairs of that prosperous city.

Giant Searchlight
According to a statement by the Sperry Gyroscope company the concern is now able to turn out a searchlight of 1,200,000,000 candle power which is able to pick out an airplane in good weather at a distance of 30,000 feet. The new searchlight weighs only 1,500 pounds, making it practically portable. It can be set in the ground and surrounded with sand bags so that it will be almost impossible for an airplane to bomb it. In addition to its portability the new light can be controlled electrically at a distance, so that its operators will not be blinded by its glare.

The Inference
Traffic Expert Dominick Henry of New York, discussing the taxicab trouble, said the other day:
"Oh, well, taxicab troubles are widespread. A Duluth schoolboy came home one evening and said to his father:
"The world is round, isn't it?"
"Yes, son," the father agreed.
"Then, if I wanted to go east, I could get there by going west, couldn't I?"
"Yes, son—and you'll be a taxicab driver when you grow up."

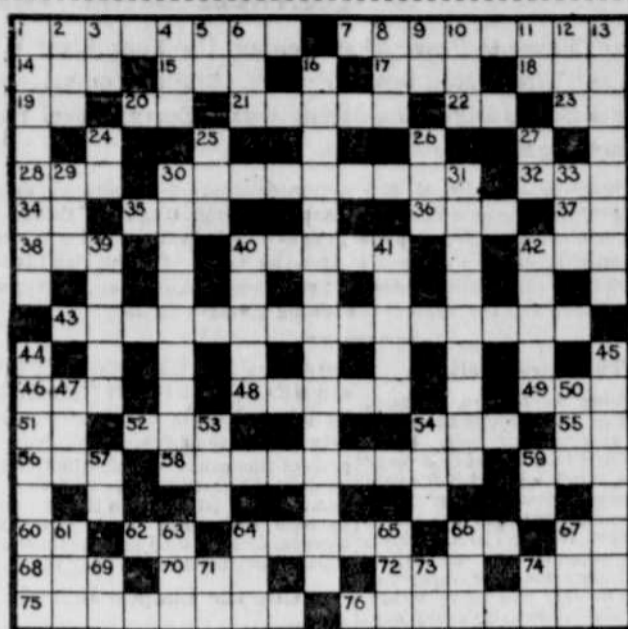
Down on the Farm
"The only worker I ever knew who would work when the boss was away was the old-fashioned American hired man," declared a professor at Grand Rapids. We have known a couple of them to sit on a fence at such times and work until their jaws were totally exhausted.

Modern Erudition
In A. B. Burgin's "Some More Memories," the fourth volume of his reminiscences, the story is related of a society woman who was once chatting with Morley and told him that she was very much interested in So-and-So's "Life of Charles L." To which "Honest" John replied: "Ah, yes; a very good book. And when he comes to the death—" "Oh, please!" exclaimed the lady. "Don't tell me any more; I haven't got as far as that yet! Don't tell me what happens."

Artaxerxes' Seal Found
In rummaging in one of the vaults of a Russian museum, investigators have found what is believed to have been the seal of Artaxerxes, the Persian monarch who ruled 465 to 425 B. C. The seal will now be exhibited in the Fine Arts museum at Moscow. The seal reads: "I am Artaxerxes, the Great King."

Soy Bean Meal Value
The value of soy bean meal for producing meat, milk, and butter is well established. It is one of the cheapest of the highly nitrogenous feeding stuffs and is therefore economical for balancing rations deficient in nitrogen. Owing to its high content of protein the meal should be used with the same precautions as are observed with other highly concentrated feeds. As regards digestibility, soy bean meal compares favorably with other oil meals.

CROSS-WORD PUZZLE

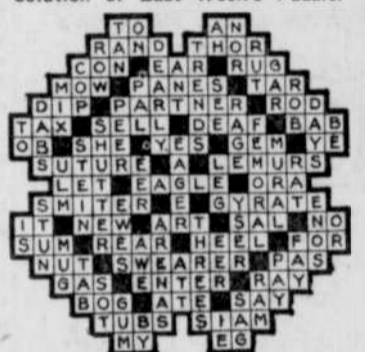


(Copyright, 1925.)

- Horizontal.
- 1—The best of them
 - 7—A town in Holland
 - 14—The edge
 - 15—Unprepared
 - 17—A term applied to Bolsheviks
 - 18—Poetic for "unclosed"
 - 19—Preposition
 - 21—Girl's nickname
 - 22—Part of verb "to be"
 - 23—A man's nickname
 - 24—Field
 - 25—Companion
 - 26—Suffix forming comparative degree
 - 27—Kind
 - 28—A piece of information
 - 29—Pronoun
 - 30—A kind of cloth
 - 31—A girl's name
 - 32—By or through
 - 33—Having human form
 - 34—A man's name
 - 35—Sends forth
 - 36—Containing the young
 - 37—A degree (initials)
 - 38—Possessive pronoun
 - 39—A covering
 - 40—An immature insect
 - 41—Article
 - 42—One who looks on
 - 43—In the past
 - 44—Salutation
 - 45—Exclamation
 - 46—Amusing
 - 47—Part of an eastern state
 - 48—Initials of an eastern state
 - 49—Part of the verb "to be"
 - 50—Prefix indicating "single"
 - 51—A kind of animal, vegetable or mineral origin
 - 52—A shallow dish
 - 53—A province of Canada
 - 54—Tying together
- Vertical.
- 1—A doughnut
 - 2—Part of the body
 - 3—Part of the verb "to be"
 - 4—In favor of
 - 5—Abbreviation for a central state
 - 6—Possess
 - 7—To voice grief
 - 8—Pronoun
 - 9—Girl's name
 - 10—To perform
 - 11—A primate
 - 12—Those who interfere
 - 13—A medicine
- 24—Abbreviation for a southern state
- 25—Used in printing
- 26—To wager
- 27—Preposition
- 28—Before
- 29—Large mammals
- 31—To vanish
- 32—To inspire dread
- 33—Pertaining to evergreens
- 40—A kind of lyric poem
- 41—Steals
- 42—Set value
- 44—A town in England
- 45—Disregarding
- 47—Sorcery practiced by West Indian negroes
- 50—To prevent vocal expression
- 53—To discover
- 54—Warm
- 57—Part of the infinitive
- 58—A preposition
- 61—Man's name
- 63—A small house
- 64—A white lie
- 65—Pronoun
- 66—Past prime
- 67—Went fast
- 68—Prefix meaning "into"
- 71—Negative
- 72—Preposition
- 74—Initials of an oriental archipelago

The solution will appear in next issue.

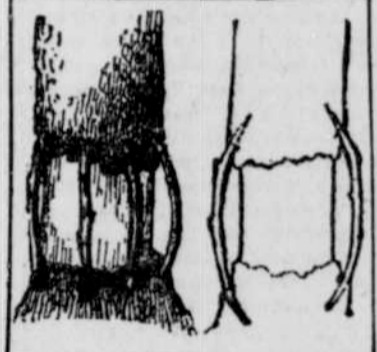
Solution of Last Week's Puzzle.



ORCHARD GLEANINGS

TREES INJURED BY RABBITS ARE SAVED

Rabbits have been very destructive to fruit trees and ornamental trees and shrubs during the past few winters and are a growing menace to fruit growers and to others. They often do so much injury to the trunk that it is hopeless to try and save the tree unless the tree is cut off below the injured part and the stub grafted, several scions being inserted, the number depending on the size of the stub, but this is usually only satisfactory when the trees are quite small. If grafting is done, it should be in the spring in order to have the best success. If the trees have only been planted a year or two it will be possible in some cases to obtain a new tree by cutting off the top close to the ground but above the point of union with the stock, from which point a new shoot, which will make another trunk, should grow. If the trunk is not girdled, the top may be saved by bridge-grafting, or inserting several scions which span the girdle and connect the parts above and below the girdle, as shown in the illustration. The scions soon unite with the trunk, and then sap flows through them and supplies the top of the tree. Eventually the scions grow together and form a new trunk over the girdled part. When bridge-grafting is practiced it is



Girdled Tree With Method of Inserting Grafts.

desirable to head in the tree severely to reduce the transpiration or evaporation of moisture from the top until sap is carried through the bridge-grafts.

If the girdle is only part way round bridge-grafting may not be necessary as the wound will eventually heal over. In order to keep the wood of the girdled part from getting too dry and stopping the flow of sap in the tree, it is desirable to cover the wound with grafting wax or some paste, such as made from sulphur, cow-dung and clay, over which sacking or burlap may be wrapped. It is a good plan to do this also even when bridge-grafting is done.

Sometimes trees live for a year after complete girdling and then die as there is not enough sap in the top or carried up to keep it alive, but it is practically sure to die the second season unless it is bridge-grafted. Should the girdle be near the ground, it is desirable, in addition to covering the injured part with the paste referred to, to mound up the soil about the tree to cover the wound, and thus help to prevent the wood from drying out. The tree should be severely headed back no matter what treatment is given.

Pinching Blackberries and Black Raspberries
Summer pinching of blackberries and black raspberries should be started the middle of June, advises J. H. Clark, instructor in fruit growing at the New Jersey College of Agriculture, in New Brunswick.
This type of pruning consists of pinching out the top of the growing cane when it has reached a height of 18 to 24 inches. This will encourage the growth of side branches and instead of a long, slender, unbranched cane, a short, stocky stem will be produced with the bearing area scattered over several branches.

If the canes are pinched as soon as they reach the desired height, the work can be done with the thumb and fingers, since the growing tip is soft and easily broken out. However, if the cane is allowed to grow until it is much above this height it will harden so that shears must be used. In such a case, the plant has wasted its energy producing the section of cane which is cut off, and often the laterals produced will not be as strong or as well-distributed as where pinching is done earlier.

It is usually not advisable to pinch the canes of red raspberries, since it results in the production of more and weaker canes, instead of the desired laterals.

Spraying Raspberries
The spraying of tree fruits has been developed to a high degree, but the spraying of raspberries for anthracnose has not yet become a widely practiced commercial proposition. There is evidence at hand which indicates that with proper precautions spraying is a good proposition. Every effort should be taken to bring the young plantation to the bearing age practically free from infection; after that the delayed dormant spray should be chiefly relied upon.

Don't Forget Cuticura Talcum

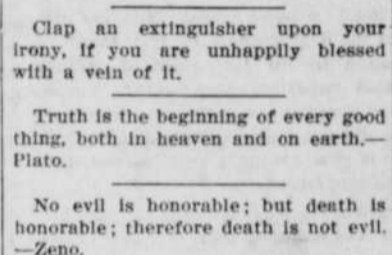
When adding to your toilet requisites. An exquisite face, skin, baby and dusting powder and perfume, rendering other perfumes superfluous. You may rely on it because one of the Cuticura Trio (Soap, Ointment and Talcum), 25c each everywhere.—Advertisement.

SHORT SAYINGS

- Time is the surest judge of truth.
- There is nothing insignificant—nothing!
- Fool questions usually beget fool answers.
- All spirits are enslaved which serve things evil.
- Who bathes in worldly joys, swims in a world of fears.
- Our care should not be so much to live long, as to live well.
- Every man must fashion his gait according to his calling.
- The less work a man has to do the more he tires other people.
- Fools throw kisses, but the wise men deliver them in person.
- A good law without execution is like an unperformed promise.
- There are moments in life that are worth purchasing with words.
- All great alterations in human affairs are produced by compromise.
- A very great part of the mischiefs that vex the world arises from words.
- Reflection sometimes shows yourself as you really are.
- It's bad weather that reveals a good seaman.
- People who are overwhelmed with sweetened praise and flattery think they are "understood."
- Gentleness is revealed in the last analysis of greatness. The blusterer is always weak.
- Clap an extinguisher upon your irony, if you are unhappily blessed with a vein of it.
- Truth is the beginning of every good thing, both in heaven and on earth.—Plato.
- No evil is honorable; but death is honorable; therefore death is not evil.—Zeno.
- If a man is too poor to lend his friends money he will retain them longer.
- The man who thinks funny things without expressing them is the worst kind of pessimist.
- A woman may listen to the advice of her husband, but she invariably does as she pleases just the same.
- Man's greatest responsibility on this mundane sphere is woman—and she never lets him forget it, either.
- Some women swear like men, while others are so plous that they won't even darn socks.

Twice in This Woman's Life

Lydia E. Pinkham's Vegetable Compound Helped Her from Sickness to Health



Ellensburg, Washington. — "When I was first coming into womanhood I suffered terribly every month. My mother did everything she could think of, so she took me to several doctors and they only helped me a little. Mother was talking to another lady about my condition and she told mother of Lydia E. Pinkham's Vegetable Compound. Mother got me six bottles and at the end of the first month I was much better, so I kept on taking it until I had gone more pains. When I got married and had my first child I was in terrible pain so that it was impossible for me to do my housework. I thought of how the Vegetable Compound had been of so much benefit to me when I was a girl, so I went to Perley's Drug Store and got six bottles. It sure did help me and I still take it. I am a well woman today and I can't say too much about Lydia E. Pinkham's Vegetable Compound. I will answer any letter that comes to me to answer about what your medicine has done for me." — Mrs. WILLIAM CARVER, R. F. D. No. 2, Ellensburg, Washington.

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