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# Vetch May Develop Into Highly Profitable Crop

vetch are more winter

most leguminous crops.

Method of Seeding

either by broadcasting or by drilling. The most common prac-

of Nebraska is to drill the vetch

with rye, in early September,

seeding the 1 bushel of rye and

15 pounds of vetch per acre. This

practice is generally followed

when the crop is grown for seed.

Hairy vetch may be seeded

## A Legume and Soil-**Builder**, It Is New to Region

(Editors note: This article on hairy vetch has been written especially for The Frontier's Soil Conservation Issue. Although rather new, vetch has possibilities for extensive use in the O'Neill region and might become one of our profitable crops.)

### By T. H. GOODDING Profesor of Agronomy Uni. of Nebr, College of Ag.

Hairy vetch, also known as stems attain a length of 2 to 5 hairy vetch. Some strains of acre. feet. The stems and leaves of hairy hairy vetch are covered with a hardy than others. The success heavy pubescense or hairiness in the growing of hairy vetch in which gives the plant a silvery Nebraska depends to a large deapearance when it reaches the gree on its adaptability. bloom stage. The flowers are blue-violet, borne in dense onesided clusters. The pods are light the seeds are nearly black. Uses of Vetch

Hairy vetch is relished by all farm livestock. It makes good pasture, hay and silage and is an excellent cover crop for sandy soils.

As a pasture crop hairy vetch is excellent for sheep and cattle. of Nebraska is to drill the vetch It should not be pastured when wet because of the danger of bloat. Even though hairy vetch is a fall annual it can be seeded in the spring either alone or with oats for pasture, hay or silage.

handle as hay due to its viny na-ture and the manner in which it the soil. Under favorable moisclings together. With the use of ture conditions vetch may be modern having machinery this seeded 2 or 3 inches deep on kind are applied to the vetch objection can be largely over- sandy soils and 1.5 inches on seed, the bacteria enter the tiny come

Vetch ranks high among the members of the legume family in its ability to fix nitrogen. It is a somewhat lighter than the reguvaluable crop for soil improve- lar rate, seeding the vetch at 15 make nitrogen available to the ment purposes particularly if the above ground parts of the plant are not removed, but returned to ticed where the crop is to be pasthe soil, or if the crop is used for feed or pasture and the manure Hairy vetch may h lone either in the spring or in returned.

#### Adaptability

The two vetches most common- viny nature of vetch makes it ing crop. ly grown in the United States are difficult to harvest for hay or Hairy vetch may not rank with common and hairy vetch. Com- seed when grown alone. When biennial sweet clover and alfal-

# Vetch in a Strip Cropping System

Hairy vetch is a winter annual legume. It may be planted either in the spring or fall.

When sown in the spring it acts like a biennial, that is, it does not set seed until the second season of growth.

For seed production purposes it is commonly planted in the fall with rye which holds the vetch off the groud.

When seeded with small grains such as rye or oats it should be sown at the rate of 15 pounds per acre, whereas if planted alone the rate should be doubled.

Hairy vetch succeeds especially well on sandy soils, but can be grown on most well-drained soils.

Inoculation is essential and should be supplied particularly where hairy vetch is grown for the first time.

Hairy vetch often succeeds on soils where sweet clover and alfalfa fail. It is more tolerant to acid (lime deficient) soils.

sand vetch, is a viny, weak-stem- mon vetch is less winter hardy sown alone the rate should be med winter annual legume. The and less drought resistant than increased to 25 or 30 pounds per

Inoculation

Hairy Vetch unless inoculated is likely to be a failure particularly if the soil on which the crop is to be seeded has not Hairy vetch prefers sandy or grown a successful crop of vetch sandy loam soils, but the crop within the past two years. Many will succeed on a great variety of failures with vetch are directly green, smooth and contain 2 to 8 soils provided they are well attributable to the lack of inocu-small spherical seeds. When ripe drained. It grows relatively well lation. Inoculation can be accomon alkaline soils and is more tol- plished by the use of commererant to acid soil conditions than cial cultures or by the use of soil from fields that have recently grown a successful crop of vetch.

When soil is used, it may be mixed with the seed and drilled at the rate of a half bushel per acre and 30 pounds of seed with an ordinary drill. Commercial cultures are inexpensive and their use means cheap insurance that the right kind of organisms of high nitrogen-fixing ability will be present. Precautions set forth Vetch is a little difficult to andle as hav due to its viny na-dition of the of soil and the con-manufacturer should be observed

#### Soil Improvement

When bacteria of the proper heavier soils. Oats may be used hairs when the young plants beland is turned to another crop, Hairy vetch may be seeded a- the nitrogen in the legume will be released by decomposition and the fall for pasture purposes. The become available for the follow-

rye crop.

33 bushels.

grown recently the corn yielded



No vetch was raised in Holt county last year but in Pierce county (near Foster) a field trial proved highly successful. Charles Fenster, of Pierce (right), and E. C. Berggren, of St. Paul, inspect the vine-like plant.



T. H. Goodding of Lincoln (left), representative of the Nebraska Crop Improvement association; D. W. Frey, of Pierce (center), SCS technician, and Wayne Parks, of Foster, survey a field of rye grown logemer, io owed by

No reseeding was necessary to produce vetch and the succeeding

fa as a soil builder, but sweet clo-ver and alfalfa are difficult to stage of maturity the upper pods

grow on many of the sandy areas wil be fully formed and the plant

of Nebraska where as hairy vetch can be successfully pro-duced. On a sandy farm in Mad-ly seeded with a supporting crop

ison county in 1949, corn follow- like rye when grown for seed. ing rye and vetch yielded 52 When grown in this manner the bushels. On the same type of soil crop can be harvested directly

where no legume had been from the field with a combine.

When seeded alone it may be

necessary to cut the vetch with

bining should be done immedi-ately after mowing. from a rye - vetch mixture by means of mechanical devices is

#### Pasturing

sheep do the least damage in bilities of bloating cattle and and fed on the farm. sheep may be reduced if a good quality of hay or straw is made

Seed

tion and purity but should in- taminating the rye. vestigate the source of the seed.

mately 10 years when its favorable characteristics and adaptability to Nebraska conditions were called to the attention of the Nebraska Crop Improvement association.

Eight growers of certified Madison vetch, selected at random, harvested a total of 137 acres of vetch planted rye during the summer of 1950. The average seed yield per acre of the rye-vetch mixture was 19.4 bushels whereas the vetch seed when separated from the rye gave an average yield of 6 bushels per

Rye-Vetch Seed Mixtures The separation of vetch seed from a rye-vetch mixture can be accomplished with a high degree

of purity by use of a spiral sep-arator. But the separation of rye

quite difficult. Furthermore, the Vetch may be used for pasture seed trade discriminates in price and is readily eaten by all kinds against rye containing vetch of farm livestock. Cattle and seed. In fact, rye containing over 6 percent of vetch will be placed pasturing vetch, hogs seem to be the most destructive. The possi-

Varieties of rye grown for certification purposes should not be available to the animals. The an- seeded with vetch since it is so imals should not be turned on the difficult to remove the rye from lush pasture when they are hun-gry. teers in the rye the crop should be sprayed with 2, 4-D to kill or The purchases of seed not only retard the growth of the vetch so should inquire about its germina- as to prevent the seed from con-

Members of the grain and seed A strain of hairy vetch known trade feel confident that a high as Madison has been placed on speed method for the separation the certification list by the Ne- of rye or wheat from vetch seed braska Crop Improvement asso- at a nominal cost can be accomciation. This strain of vetch was plished. If this can be done the grown on one farm in Madison vetch growing area may be excounty for a period of approxi- tended into the winter wheat section of Southeastern Nebraska.

> In 1700 it took 19 people working in the soil to produce food for 20 so one could go to town. Now, 1½ to 2 can produce enough for 10. The city is a product of the agricultural machines.

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Lloyd Collins

Harvesting for Seed an ordinary mower with a swath-The most common way of har- er and combine from the windvesting vetch in Nebraska is with row by means of a pick-up atthe combine. Vetch should be tachment. Hairy vetch shatters harvested when the lower half of easily, consequently the com-DE SOTO The RIDE is a REVELATION!

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