Hairy vetch is a winter-hardy, annual legume. It is one of the best nitrogen-fixers,\(^1\) superior to peas and equal to red clover.\(^2\) It is most useful in vegetable crop rotations when sown in late summer. Since it is slow to establish, it is usually sown with a nurse crop. Once established, it is good at weed suppression and soil conditioning.

### Land preparation
Prepare a well-drained seedbed free of weeds and clumps of soil. Hairy vetch performs poorly on compacted soils. Soils low in phosphorus, potassium, or sulfur may need fertilizer for effective nitrogen fixation. Tolerates a wide range of pH.\(^3\)

### Seeding rate
Drill 15-20 lb/ac. Drilling is preferred for uniformity. Broadcast 25-40 lb/ac.\(^1\) When seeding with winter rye, plant hairy vetch at 20-30 lb/ac\(^2\) and winter rye at 70 lb/ac.
Vetch can also be used as a nurse crop with oats. In late summer, sow oats with vetch at oats 80 lb/a and vetch 40 lb/ac.\(^3\)

### Seeding date
Late August – early September.

### Seed sources
Local farm seed dealers, Ernst Conservation Seeds. King’s Agriseed (Purple Prosperity) and Albert Lea (Purple Bounty) mature 1-2 weeks earlier than common seed.

### Maintenance
None.

### Control
Incorporate,\(^4\) mow, or crimp at flowering in late May to kill without herbicide. Since most nitrogen fixation occurs in May, earlier control is not usually desirable. Hairy vetch can become a weed problem if allowed to go to seed. Do not use in rotation with small grain because the hard seed of vetch will germinate in later years and contaminate the grain.

### Tips
Hairy vetch is slow to establish and often needs a nurse crop, usually oats or rye. Wait a minimum of three years before another legume crop is planted because hairy vetch supports root rot and lesion nematodes. Root rot is not aggravated, however, when it is planted in combination with small grains.\(^5\) Hairy vetch can serve as an alternate host for white mold.\(^6\)
References:
1 Sideman, E. Maine Organic Farmers and Gardeners Association, Fact Sheet #10, Using Green Manures,

Disclaimer
This fact sheet reflects the current (and past) authors’ best effort to interpret a complex body of scientific research, and to translate this into practical management options. Following the guidance provided in this fact sheet does not assure compliance with any applicable law, rule, regulation, or standard, or the achievement of particular discharge levels from agricultural land.

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