SUMMARY

- Take care of weed and brush problems on CRP land before you begin a grazing system.

- Good grazing management will help maintain fertility and prevent further weed problems.

How good is your CRP land after 10 or more years of non-use? Some CRP fields were established hurriedly with a minimal cost and effort and now have thin grass sods, weeds, and brush present.

Managing Weeds in Pasture
Take care of serious weed and brush problems before you begin your grazing system. Once weeds are under control and optimal fertility levels are reached, good grazing management will help maintain fertility while decreasing or even preventing further weed problems. If you fail to manage your pastures well, they will soon revert back to the same weedy, infertile condition and your improvement dollars will have been wasted.

Good grazing management will tend to keep most weeds out of pastures. Grazing management alone, however, normally will not correct serious preexisting weed problems. Plants such as thistles, brush, and perennial broadleaf weeds may continue to be a problem even after you begin to graze CRP fields, since they are seldom eaten even at high stocking rates.

Before taking action, identify the weeds that are a problem in your pasture. Thistles and brush often are the most troublesome weedy plants in pastures. But different kinds of thistles require different control measures. Your ISU Extension crop specialist can give you specific control recommendations.

Remember that not all plants that are considered weeds in row crops are a problem in pasture. Many so-called “weeds” such as quackgrass and lambsquarters are very nutritious at certain growth stages and need not be removed. Be concerned mainly about those plants your livestock avoid eating, or that have low nutritive value such as thistles, goldenrod, or vervain.

Mechanical Control
Repeated mowing, clippings, clip weeds, and hand cutting can reduce weed infestations. When weeds are in the bud to early bloom stage. Some producers clip each pasture at least once each year; others clip only weedy areas. Multiple clippings during the year weakens existing weeds by depleting root reserves and prevents further spread by preventing seed production. Bull thistles often are controlled by cutting. Musk, plumeless, and Canada thistles, however, commonly produce new shoots after mowing. If these shoots are not clipped off a second (sometimes third) time, they will still flower and set seed. Tillage can be used to suppress weeds as part of a pasture renovation program but is seldom used to manage weeds in a good pasture.

Chemical Control
If mechanical methods of control are not satisfactory in initial control of serious weed problems, herbicides may be needed to aid in their control. If the weed problem occurs over the entire pasture, herbicides can be broadcast sprayed. Keep in mind, however, that most pasture herbicides will remove desirable legumes as well as weeds. More frequently, weeds are patchy, making spot spraying the preferred method of control. Spot spraying costs less than broadcasting.

Before deciding to use herbicides, be sure problem weeds have been accurately identified. Each herbicide has label instructions that dictate the rate, timing, handling, applicator risk, off-site risks, and livestock reentry period. Follow label instructions.

Cultural Control and Maintenance
Several cultural practices help maintain
This bulletin is part of a series to help CRP contract holders assess the land-use options available to them when the contracts expire. The series is funded in part by the Leopold Center for Sustainable Agriculture. Other bulletins in the series and additional information are available at county ISU Extension offices.

Managing Pasture Fertilization

Most pastures grow under a fertilizer nutrient deficiency. Productive pastures require adequate fertility. A well-fertilized pasture produces more forage, recovers more quickly following grazing and is more competitive against weed invasion. In addition to yield benefits from fertilization, other management factors are important in pasture fertilization programs.

Fertilizer, particularly nitrogen, can stimulate large increases in grass growth. A practical factor to consider is that most of the grasses planted in CRP fields and generally used for pasture in Iowa are cool-season plants, meaning their production is concentrated in the cool, moist periods of spring and autumn. Nitrogen can stimulate significant increases in growth during these rapid growth periods, but a practical consideration is whether you will be able to use this extra growth efficiently in a period when pasture growth is often already in excess. An unfortunate feature of cool-season grass-based pastures is that attempting to use fertilization to make grass grow in the summer months is not generally successful. Establishing and maintaining legumes in the cool-season grass sod, or maintaining a warm-season grass pasture are better alternatives for improving the seasonal distribution of growth in a pasture system.

Fertilizer recommendations are based on a number of factors including soil type, climate, yield goals, future crop rotations, nitrogen credits from manure and legumes, pH, percent organic matter, and so on. For this reason, the best management strategy is to obtain a soil test. The more information that you can provide on the soil test submission form, the more applicable the test results will be. If you are not certain what types of soil are on your farm, you can obtain a soil survey report for your county from the Natural Resources Conservation Service. Since local testing labs are more attuned to local soil types and climate, send your sample to the nearest certified soil testing laboratory in your area.

Several Iowa State University Extension publications are available to aid in your consideration of pasture fertilization: Take a Good Soil Sample, PM 287; Understanding Your Soil Test Report, PM 429; and Fertilizing Pasture, PM 869.