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### ***Hay Harvest Plant Response***

Cool season grass harvest began in earnest over the past 10 days or so. As this next dry spell sets in, there will likely be a lot more put up in the next 10.

We think a lot about what we can do *ahead* of the growing season (fertility, etc...) to encourage good growth. We might even put some thought in to what is going on *during* the growing season to affect growth and final production. After harvest, however, its easy to turn our attention to other endeavors and let the plant ‘do its thing’. So...what *is* that ‘thing’?

Since the time the grass plant put on leaves five and beyond, their photosynthesis has been working towards continued vegetative and then reproductive growth. If all the systems work as they should, some of that energy has been pushed back to the roots to replenish energy used during early spring growth. This cycle is what keeps the plant growing year after year.

At harvest, we remove all of the green leaf area used for photosynthesis, and force the plant to pull from root reserves to put out new leaves from the crown and below ground tillers. Some plants are already pushing these tillers, which should help to thicken the stand a little.

If all the plant’s energy needs are met by roots and leaves, the plant continues its life cycle into fall dormancy, ready to start over again next season. If something is out of balance – drought stress kept plants from growing adequately or armyworms remove foliage as soon as it regrows, requiring root systems to repeatedly regrow new leaves – at some point, the plant may lack the root energy or top growth to keep the cycle moving and plants can begin to die.

Post-harvest has increasingly become an important observation time for cool season grass stands. If heat and dry weather persist, regrowth could be reduced. If plants are defoliated by insect pests, or repeated harvests (animal *or* machine...), the plant’s root system may not keep up with the above ground requirements for regrowth and plants can die. Be on the lookout for challenges to the stand now. Observations post-harvest can help us make late summer/early fall management decisions to help the grass persist, while helping explain stand declines.

### ***Squash Bugs***

If you’ve ever dealt with squash bugs on pumpkin and squash, you know they can be devastating. Large numbers of the insect (often the *second* generation) suck juice from plants, causing them to collapse and die. If you’ve got squash plants growing, the time for control is sooner than later, so you can get the first generation of these grey, shield-shaped bugs before the second generation causes significant damage.

Because they have a hard body at maturity, squash bugs are difficult to control with insecticides unless very small. Scout young plants, looking on the underside of the leaves for clusters of brick-red eggs and small green insects with black legs. These are they nymph stage that will eventually become adults (which lay eggs that become the second generation).

General use insecticides such as permethrin, malathion, and methoxychlor (multiple products) provide control if a direct application is made to young, soft-bodied squash bugs. This means you **MUST** spray or dust the underside of the leaves where the insects live. If you don’t have too many plants, you can also try to remove egg masses and discard.

For information on squash bug management, including additional cultural controls, check out: <https://bookstore.ksre.ksu.edu/pubs/MF3308.pdf> or request a copy from any District Office.