

Illustrations for Hay Handling and Moving System for SARE Grant Final Report

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III. Illustrations

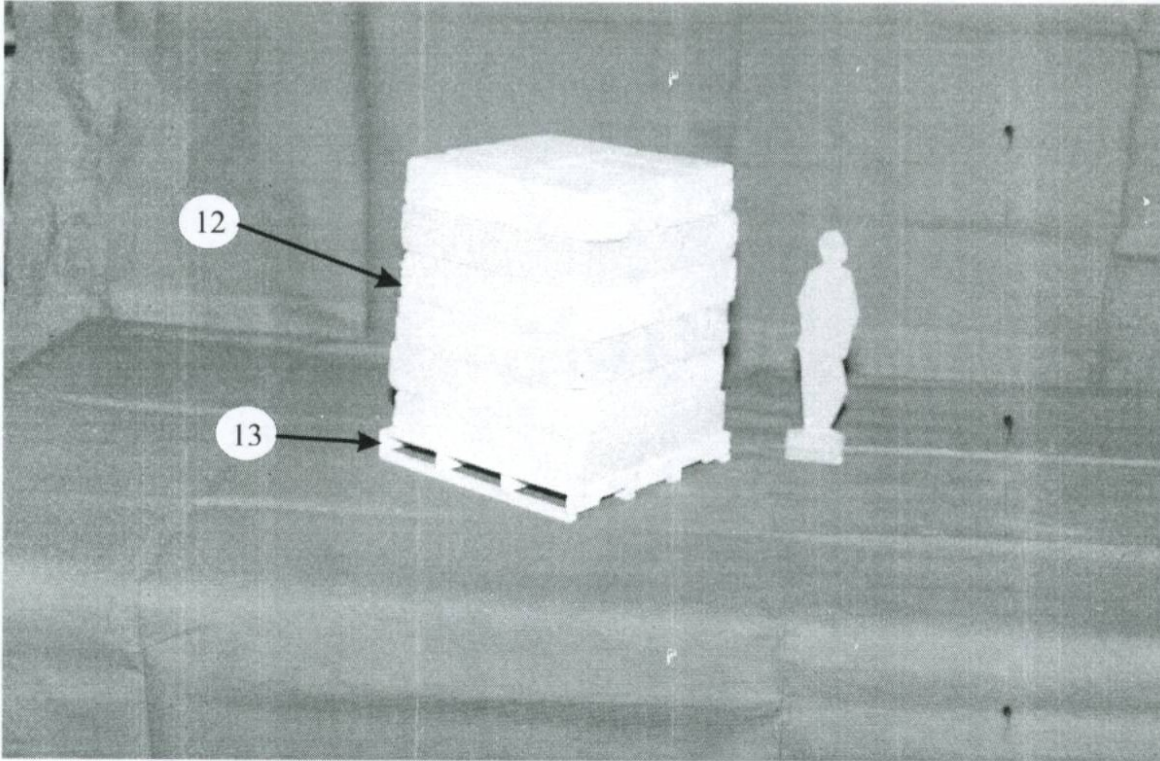


Fig. 1

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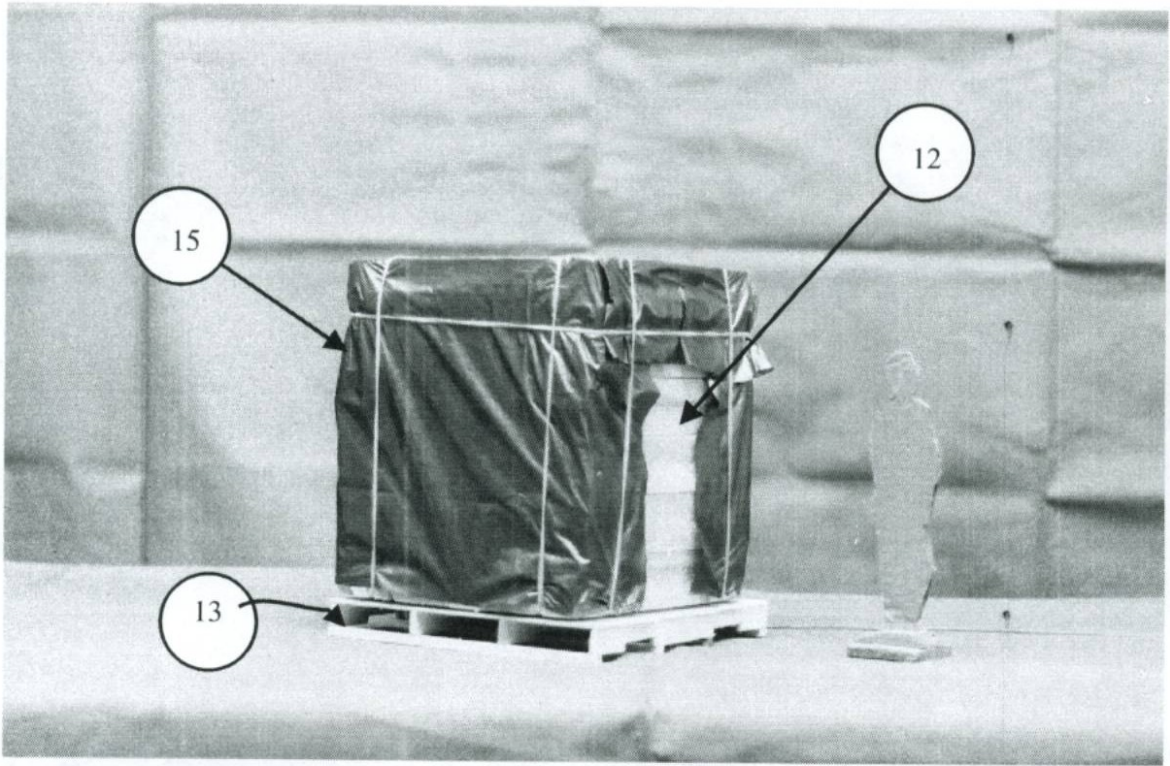


Fig.2

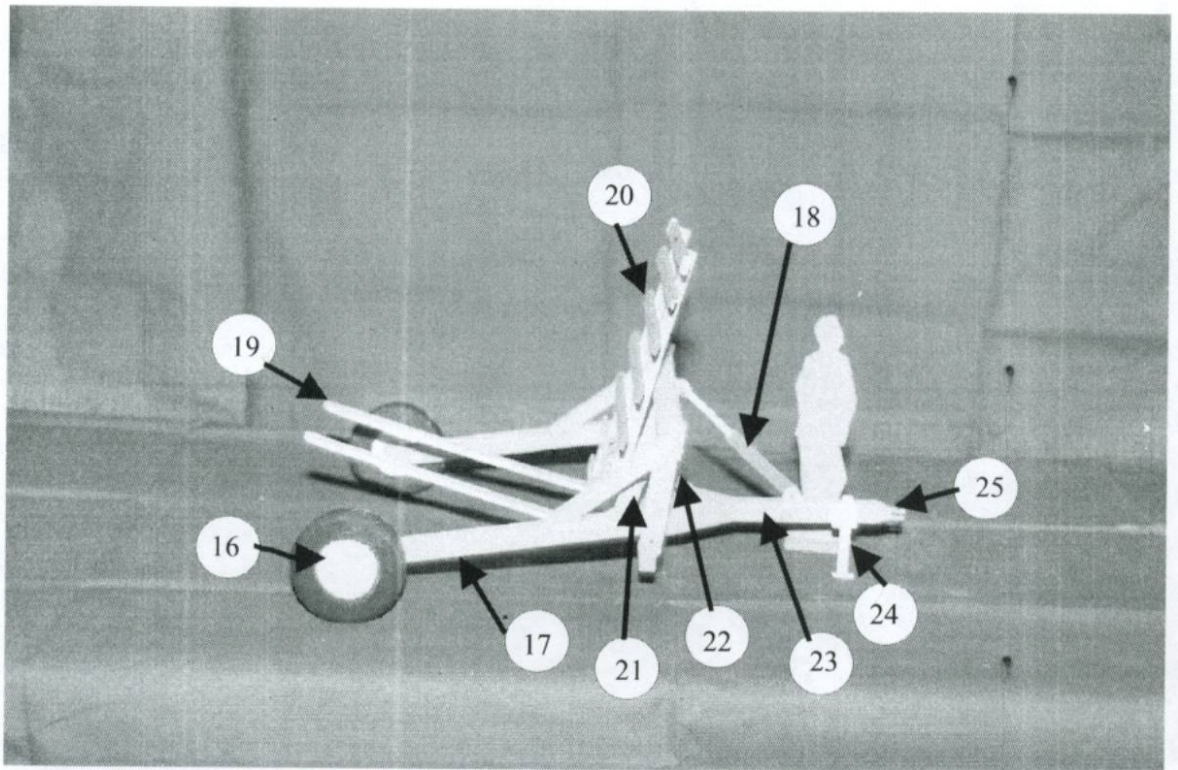


Fig3

Illustrations for Hay Handling and Moving System for
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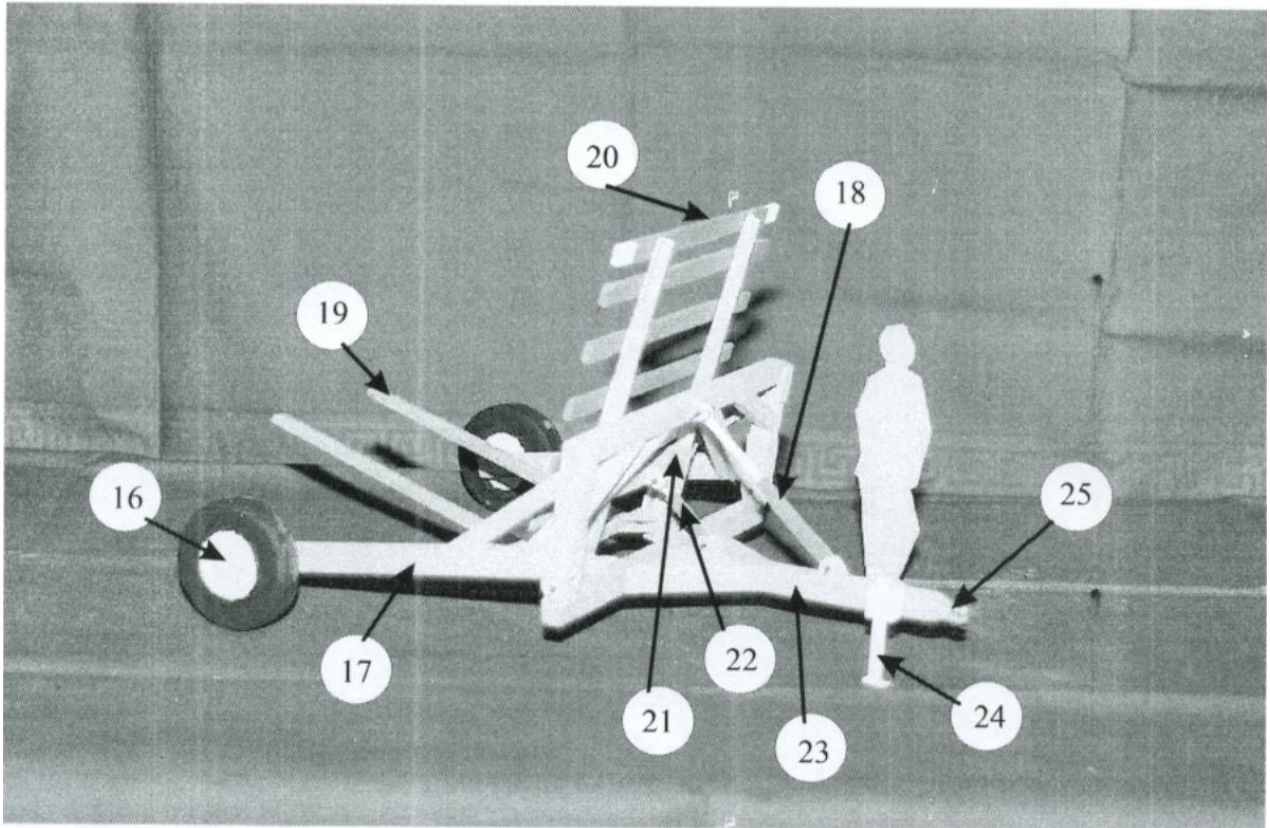


Fig. 4

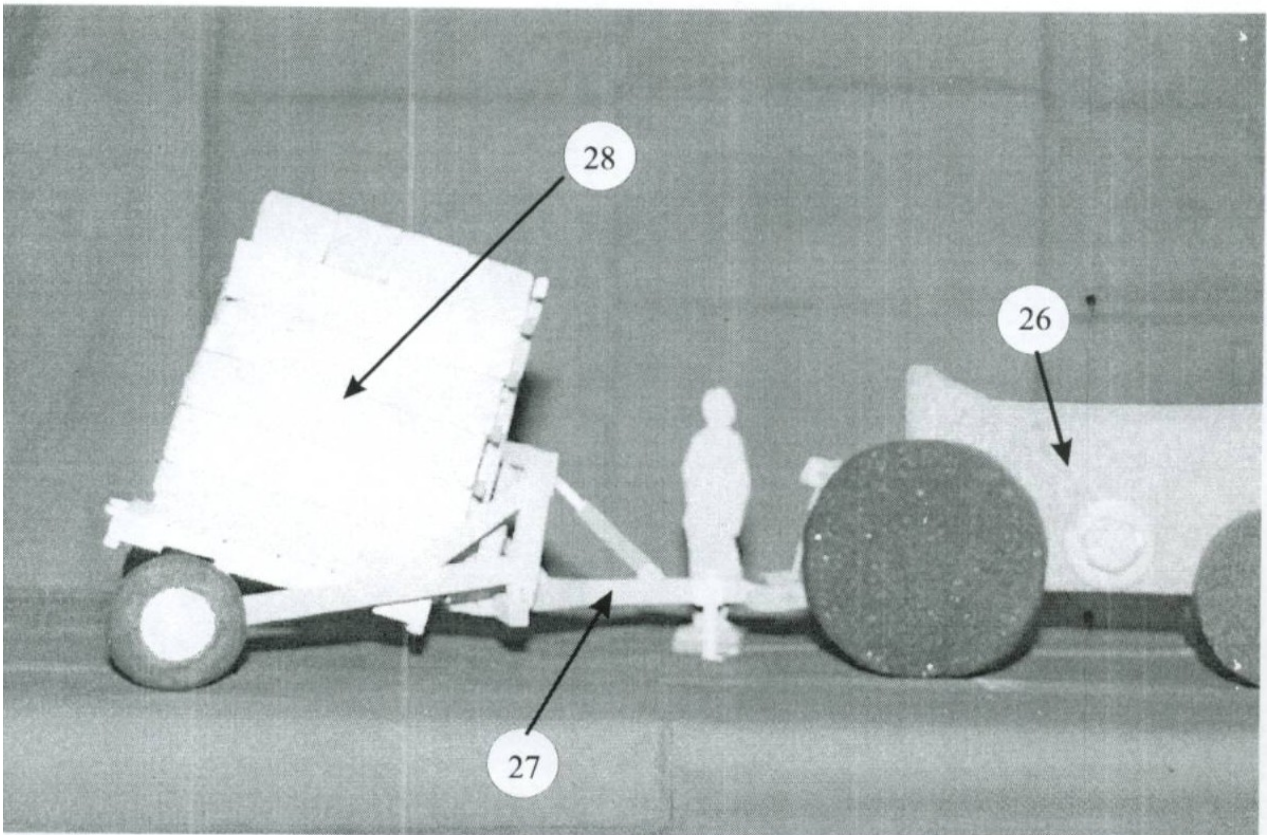


Fig.5

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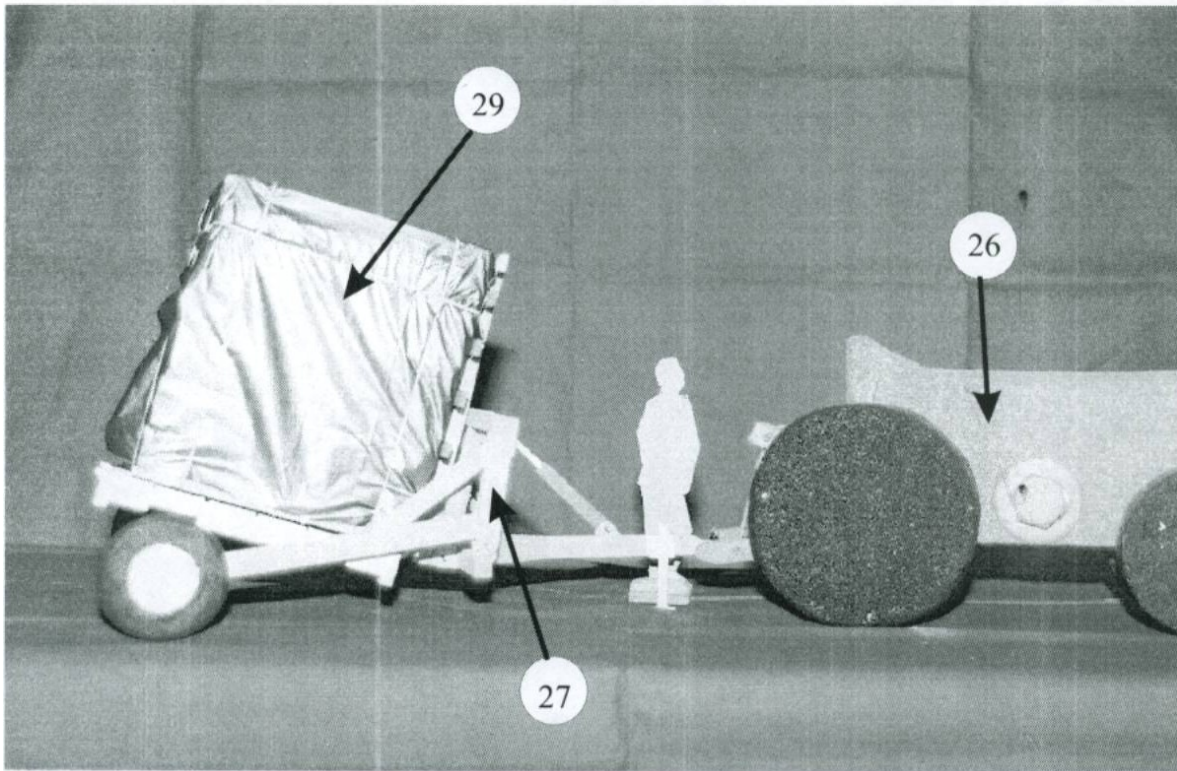


Fig. 6



Field Test Photo 101

Illustrations for Hay Handling and Moving System for
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Field Test Photograph 102

Illustrations for Hay Handling and Moving System for
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Field Test Photograph 103

Illustrations for Hay Handling and Moving System for
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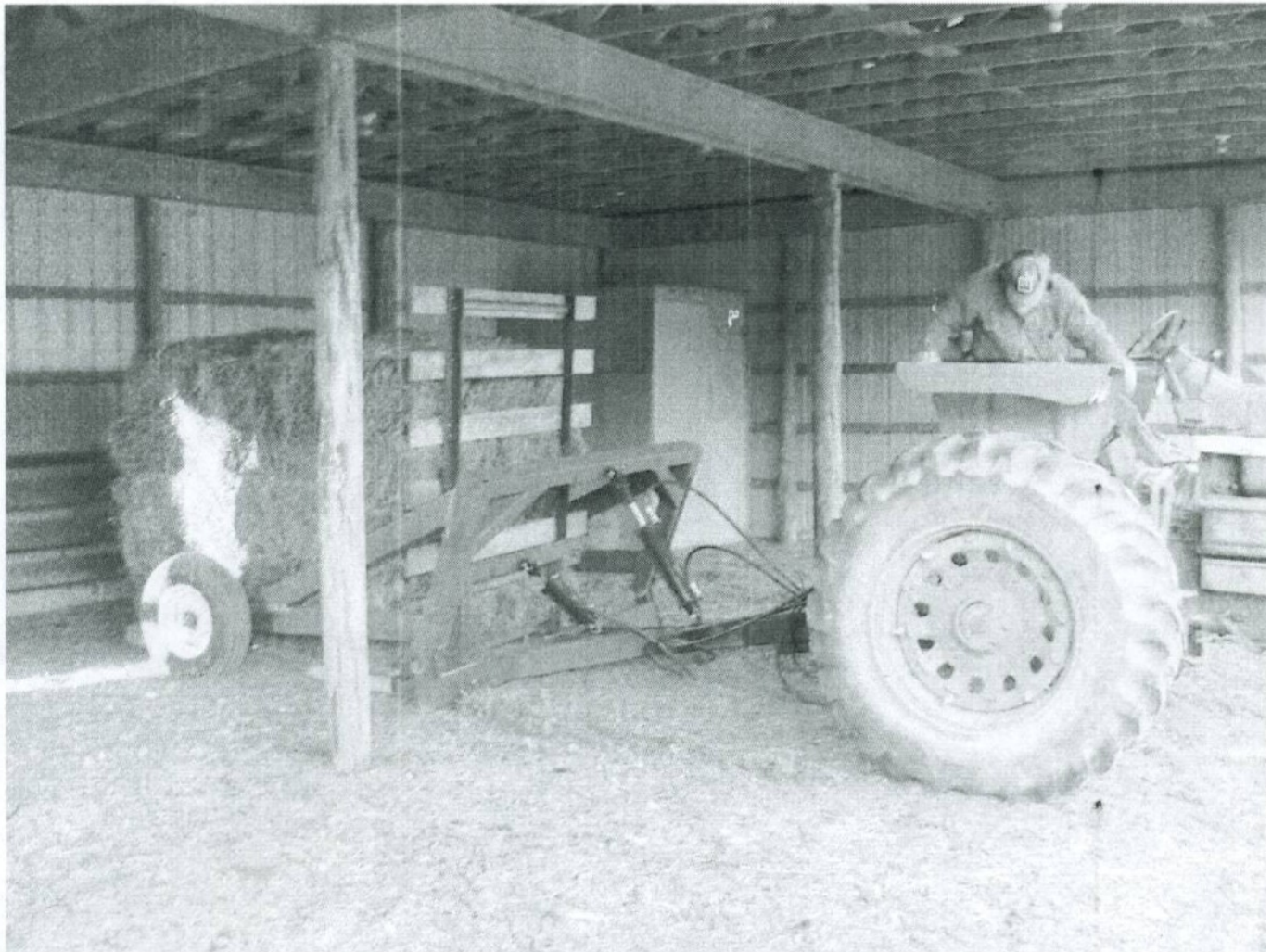
Field Test Photograph 104

Illustrations for Hay Handling and Moving System for
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Field Test Photograph 105

Illustrations for Hay Handling and Moving System for
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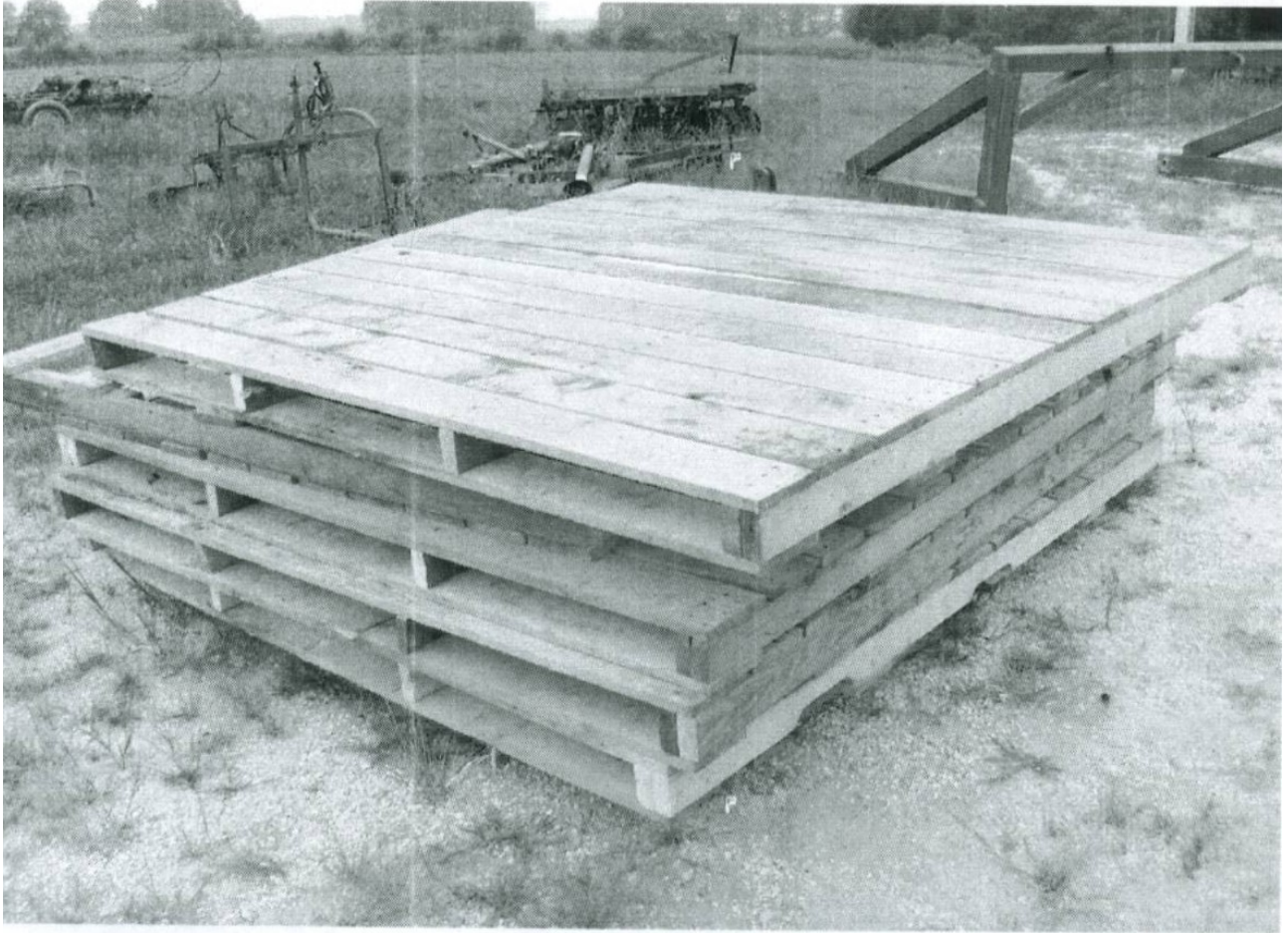
Field Test Photograph 106

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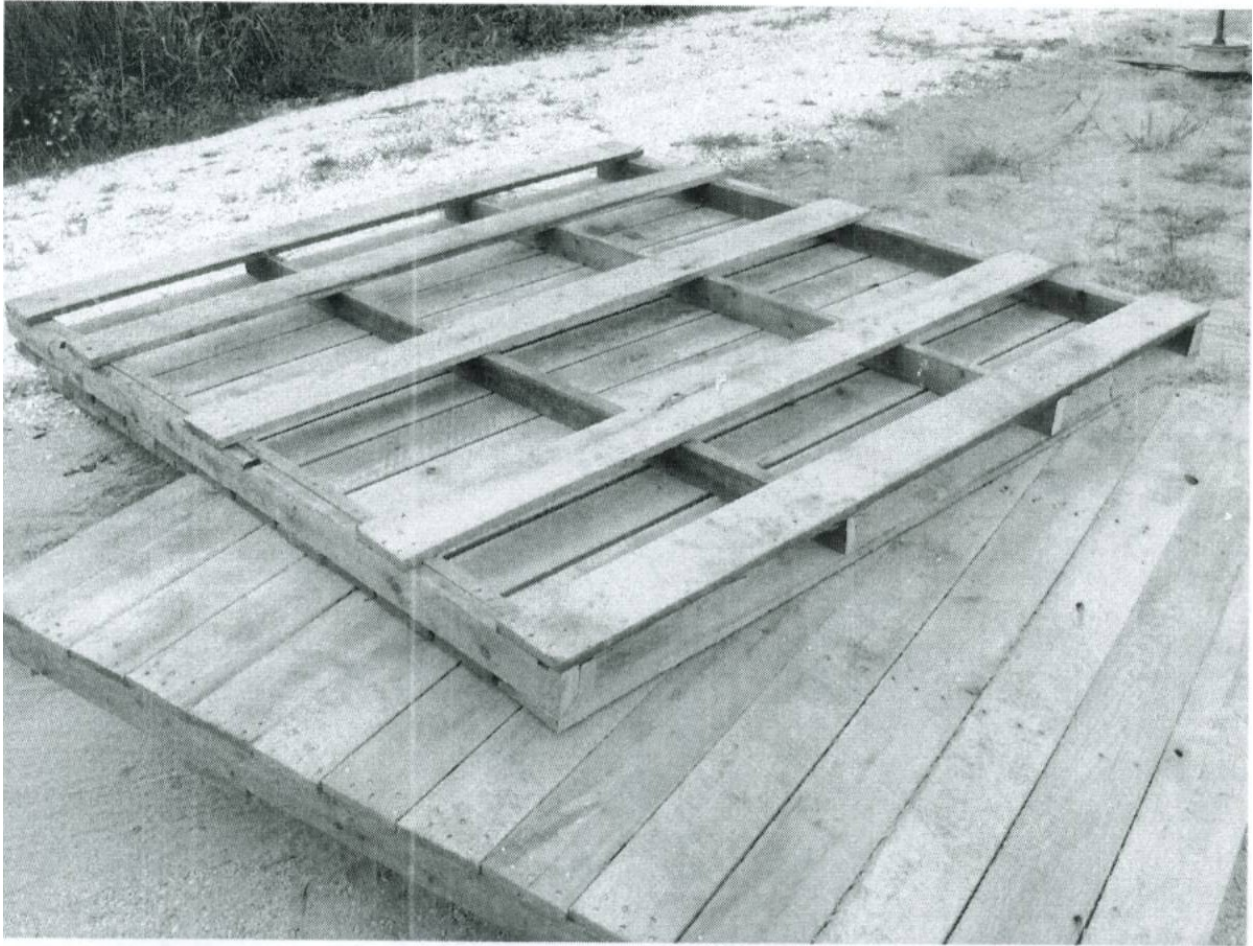
Field Photographs 108

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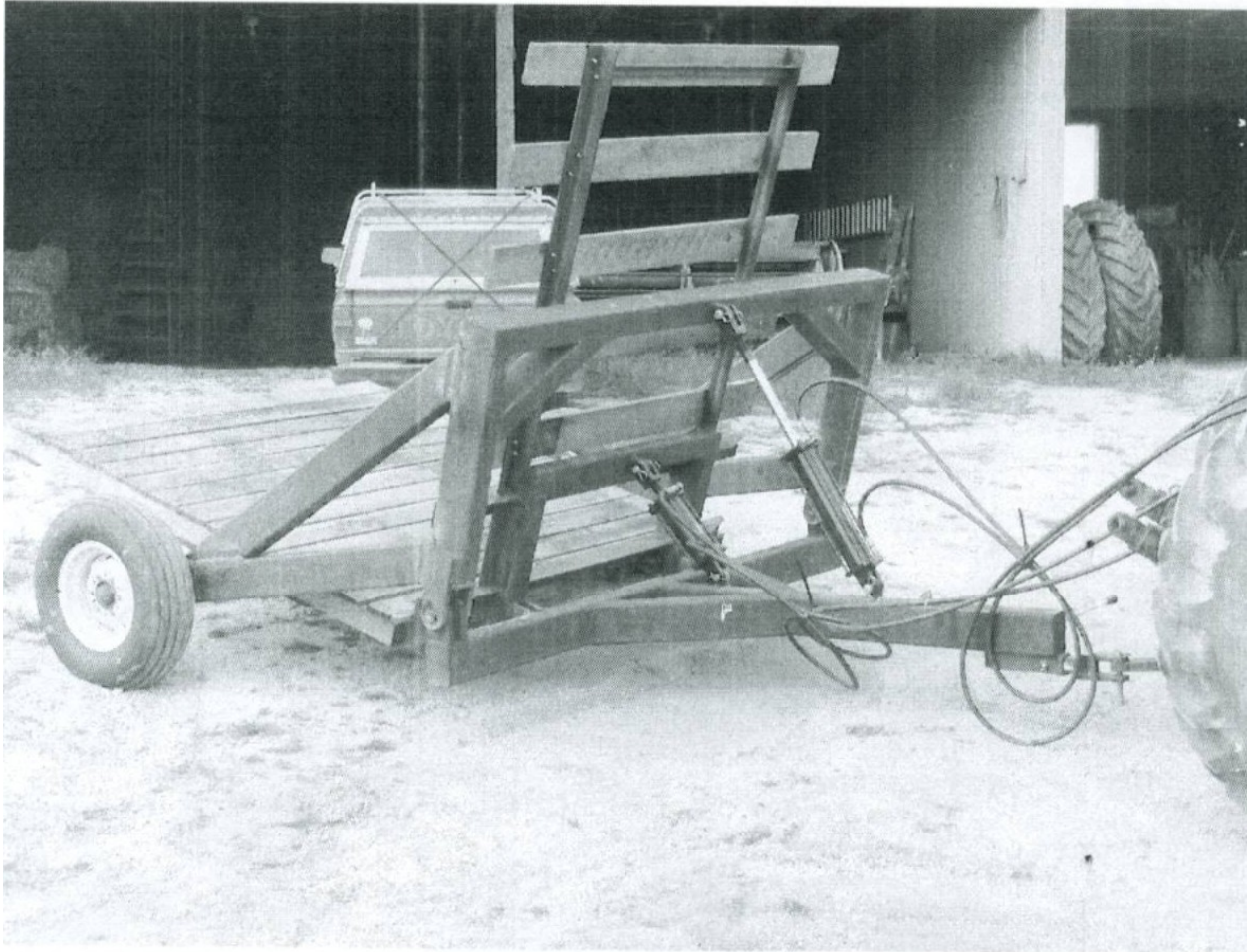
Field Test Photograph 109

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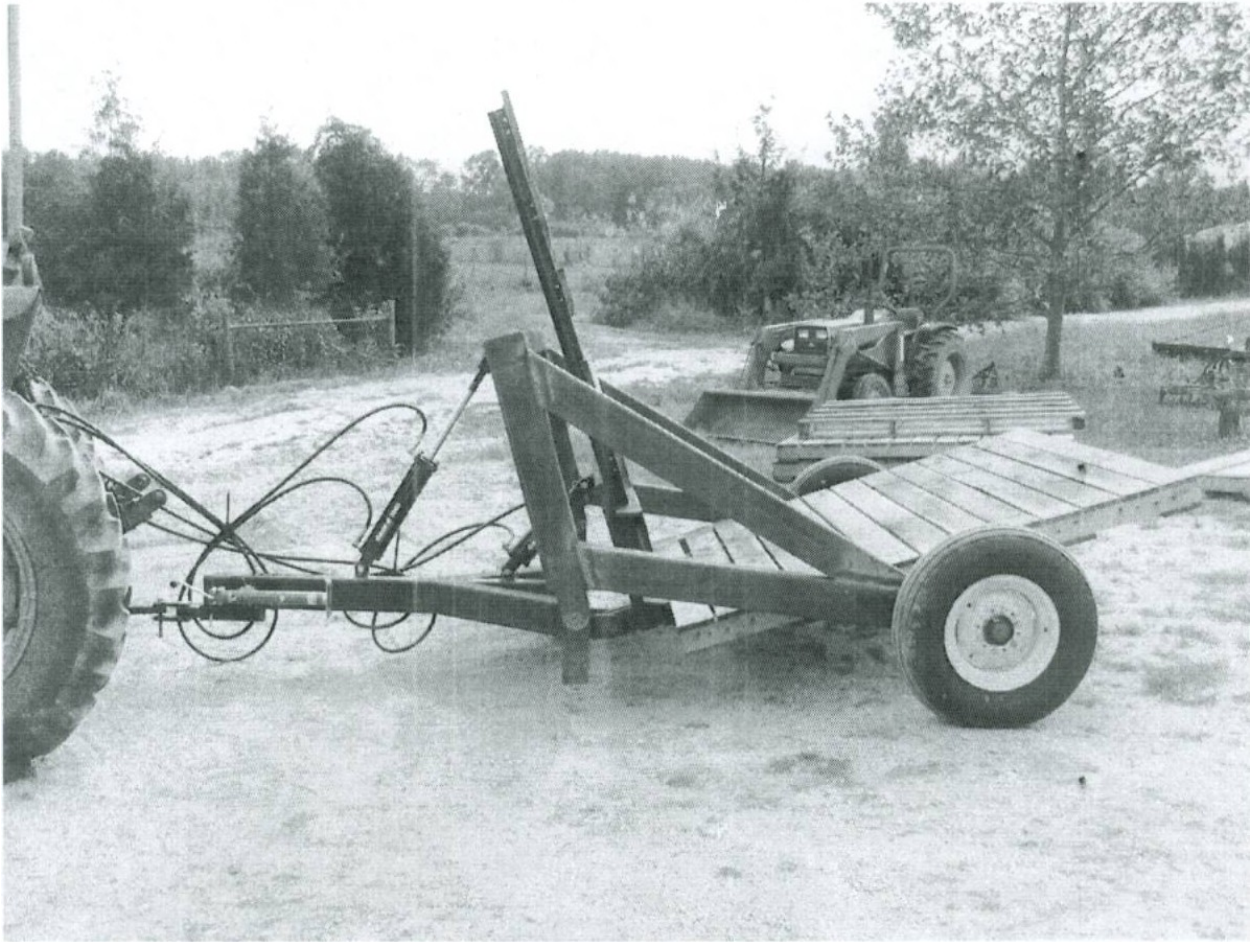
Field Test Photograph 111

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Field Test Photograph 112

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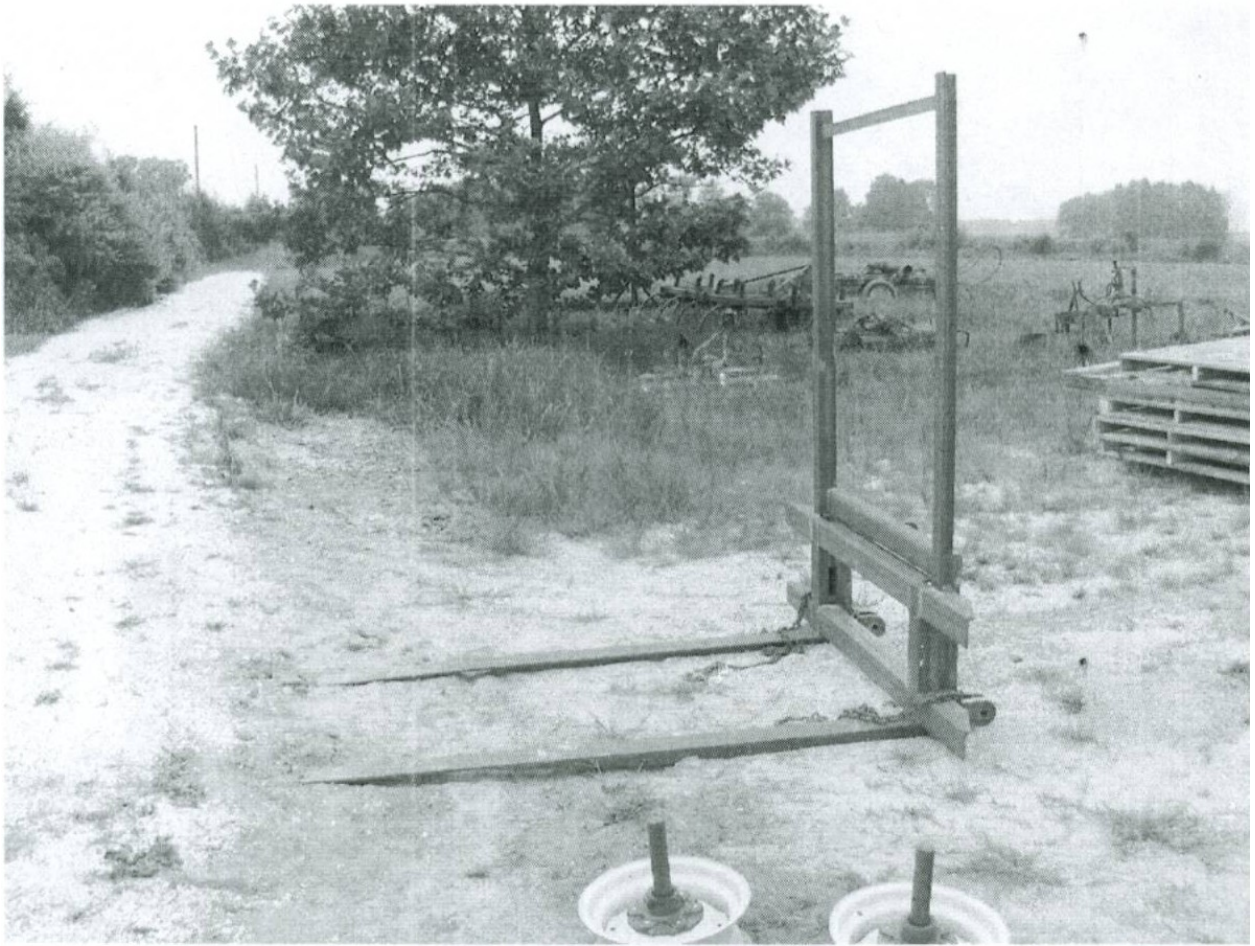
Field Photograph 113

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Field Test Photograph 114

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Field Test Photograph 116

NOFA Summer Conference workshop

Mechanizing the Hay Harvest

Sunday, August 10, 2003 1-2:30 PM

I. Methods of harvesting hay and their advantages and disadvantages

- A. Pitchforked loose hay—low capital outlay, but slow, labor-intensive
- B. Small square bales—cost of baler-(\$1500-\$1800) and wagons-(\$500-\$800) but faster, more efficient
 - 1. Stacked by hand on the wagon--labor-intensive
 - 2. Bale-kicker onto wagons with sides—cost of kicker (\$300-\$500), wagons (\$1200-\$1800), labor savings but no time saving
 - 3. Accumulator and grapple—cost of system(\$6500 new). Labor savings but no time saving
 - 4. Automatic bale stacker—cost of wagon \$10,000
- C. Round bales/large square bales—cost of baler \$5,000, spikes (\$200-\$300).
Need bigger tractor

II. Methods of storing hay and their advantages and disadvantages

- A. Loose hay—Grapple or pitchfork it into the mow or haystack. Slow, labor-intensive, requires a lot of space
- B. Small square bales
 - 1. Hand-stacked and bale-kicked. Throw bales off wagon by hand and hand-stack. Even with an elevator, this is labor-intensive.
 - 2. Grapple multiple bales into the barn. Saves some time and a lot of labor.
 - 3. Automatic bale stacker. Requires at least 14 foot of barn clearance.
- C. Round bales—40% loss to spoilage unless tarped and palletized. Some waste as fed; difficult to ration or feed smaller amounts than ½ T. Environmental costs of moving round bales in winter.

III. Palletizing small square bales

- Time-saving
- Labor-saving
- Saves cost of storage construction
- Storage flexibility means they can be positioned around the farm, saving winter transport

WORKSHOP
FEED BACK

**Torrey Reade and Dick McDermott
Mechanics of Hay Harvesting**

Self: 6-8, The workshop was very interactive We presented a new untried idea and received great feedback, but are unsure what people got out of it. You were great. Dick asks me to reiterate how helpful the AV person was. Scheduling may have contributed to the low turnout but a friend told us nobody who comes to the conference makes hay, so perhaps this was too esoteric a topic. Actually we will have more to present next year after we've done some of our experimenting, but it's unclear whether there's an audience for it. You decide. We could also do asparagus again or Farming the Government-money available for farmers. Remuneration is fine, we were already compensated by SARE. As always good to see ya- Thanks for including us.

Yes, very well organized, good info, Crowd control with attendees input was hard to control- they have my sympathy. But when they set the tone, it was informative and interesting,

addressing topics of race, class, gender, and other forms of privilege/oppression. We will use theater games, active poetry, political puppetry, and Augusto Boal's Theatre of the Oppressed. No experience necessary.

Sunday 1:00 - 2:30 pm



Workshops marked with * will be taped for future rental through the Video Project.

176) Mechanizing the Hay Harvest
Franklin Patterson 101

Dick McDermott & Torrey Reade: Dick & Torrey are hay & livestock farmers. Haymaking has its pleasures, but handling bales isn't one of them. We have spent years pondering how to take the dermabrasion and dollars out of hay moving and storage. We will discuss a range of options, including round balers and automatic bale wagons. Our focus will be on a low-cost system we are developing on our farm. We will share the results of our SARE-funded experiment to improve quality, speed and flexibility of small bale production. This is an adult intermediate level workshop.

ing mortar, when to lay dry and when. This is an adult beginner/intermediate

179) What's In Your Chicken Feed?
Franklin Patterson 104

Alton Earnhart: Alton is a NYS feed educator. Bring your bag labels with you! I will discuss various livestock species through hands-on workshop.

180) Craving Sweetness
Franklin Patterson 105

Dianna Elizabeth Conner: Dianna is a food educator, energy worker, and earth steward. How do you define "sweetness" or "savory"? This workshop will help you gain awareness on how your choices affect the way you eat and live. We will use various tools to help you transform inaction

from NOFA - con. slideshow '03



Turner: Compton

19th Cent. English Hay stacks

Nota - con Workshop '03



19th Cent. Haystack

Tunney; Talbot.

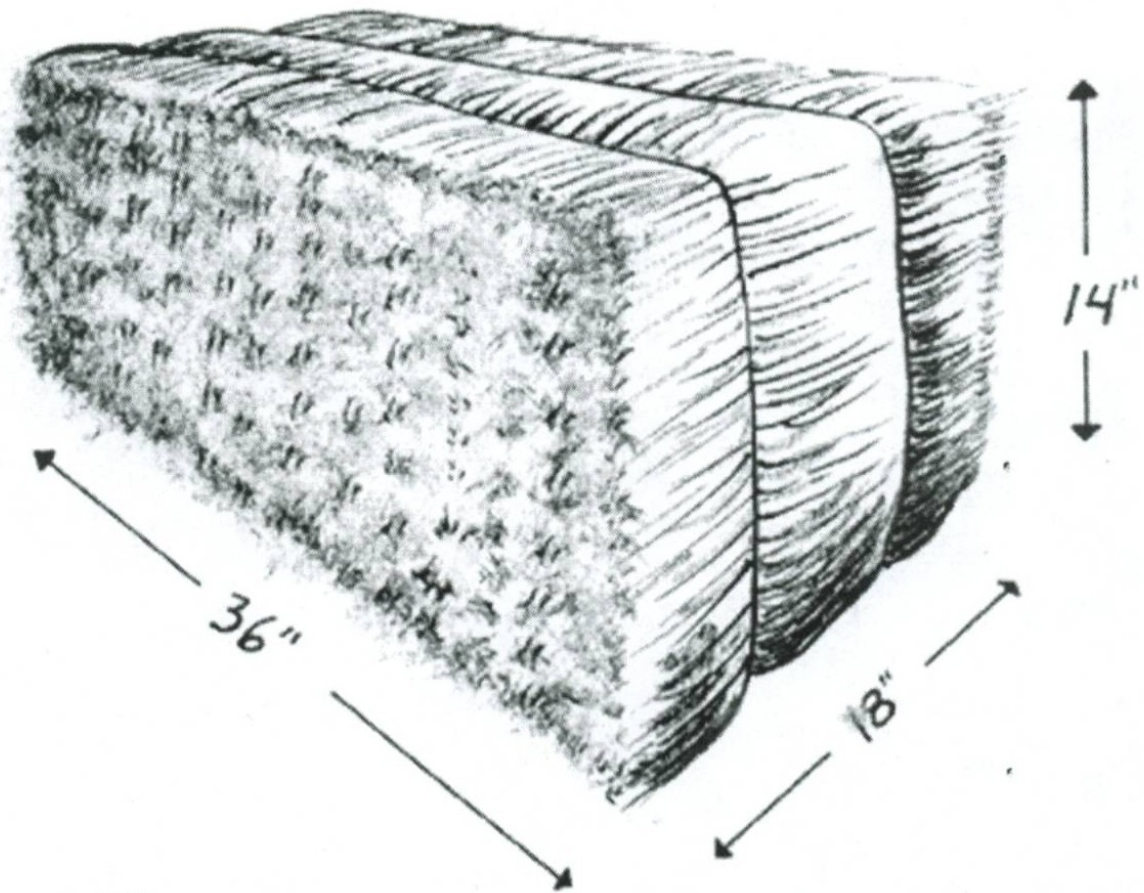
from NOFA-con slide-show '03



from Isolation Shepherds.

fence curing and Hand moving hay

from NOFA-CON Slide Show '03



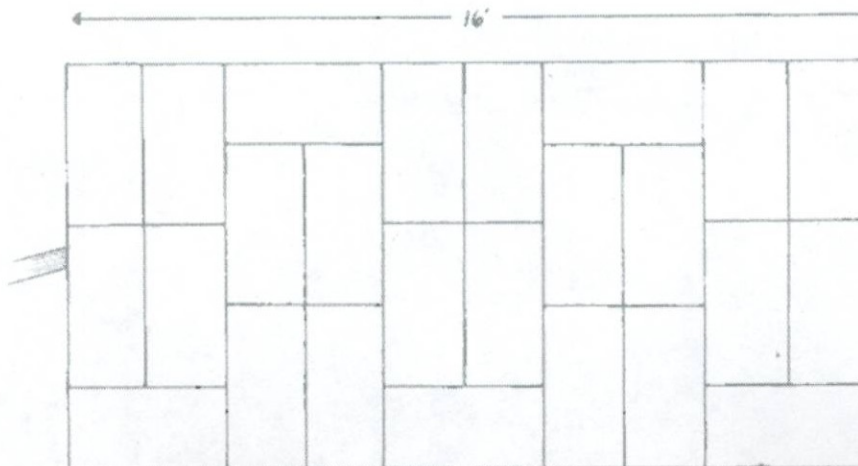
109

from "Haymakers"

from NOFA-CON slide Show '03



One method of stacking bales used a complex system of interlocking sections that alternated between levels for maximum stability.



from Hay makers.

from NOFA-con slide show '03



New Holland Stack wagon and Stack mover

from NOFA . Con Slide Show '03



Making Round Bales