

## Modification of Gravity Seed Separator Allows Adjustment During Operation

Richard Felden

*Seed processing specialist, California Department of Forestry and Fire Protection, L.A. Moran Reforestation Center, Davis, CA*

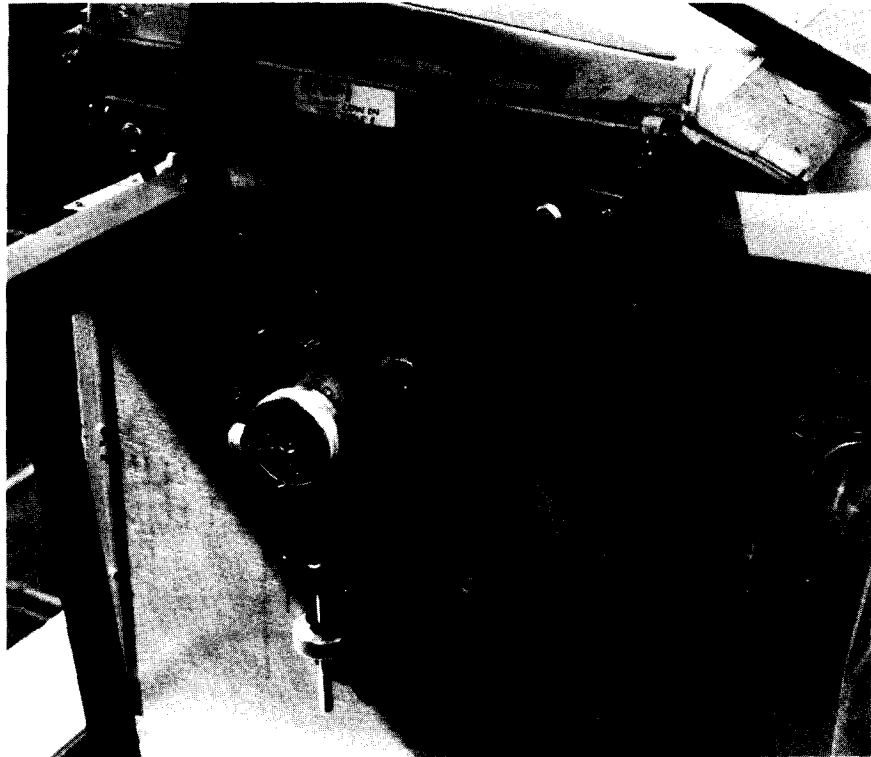
---

*Modification of a gravity seed separator allows adjustment of the side slope and end slope during operation. Set-up time is reduced and a wider range of deck height and tilt settings are possible. Working drawings are available. Tree Planters' Notes 42(2):62-64; 1991.*

---

With five variable controls, gravity separators are versatile enough to provide a wide range of seed separations. However, making the adjustments necessary to achieve good separation is time-consuming, because many gravity separators must be shut down to adjust the side slope (that is, to alter the side-to-side tilt) or end slope (the front-to-rear tilt).

The gravity table at the L.A. Moran Reforestation Center in Davis, CA, has been modified so that both slopes can be adjusted during operation (figs. 1 and 2). These modifications reduce set-up time for each seedlot and allow a wider range of deck height and tilt settings. The cost for modification was less than \$400.



**Figure 1**—Frontal view of modification to gravity seed separator.

A Forsberg 10-M2 was modified, but other gravity separators should be amenable to modification. The

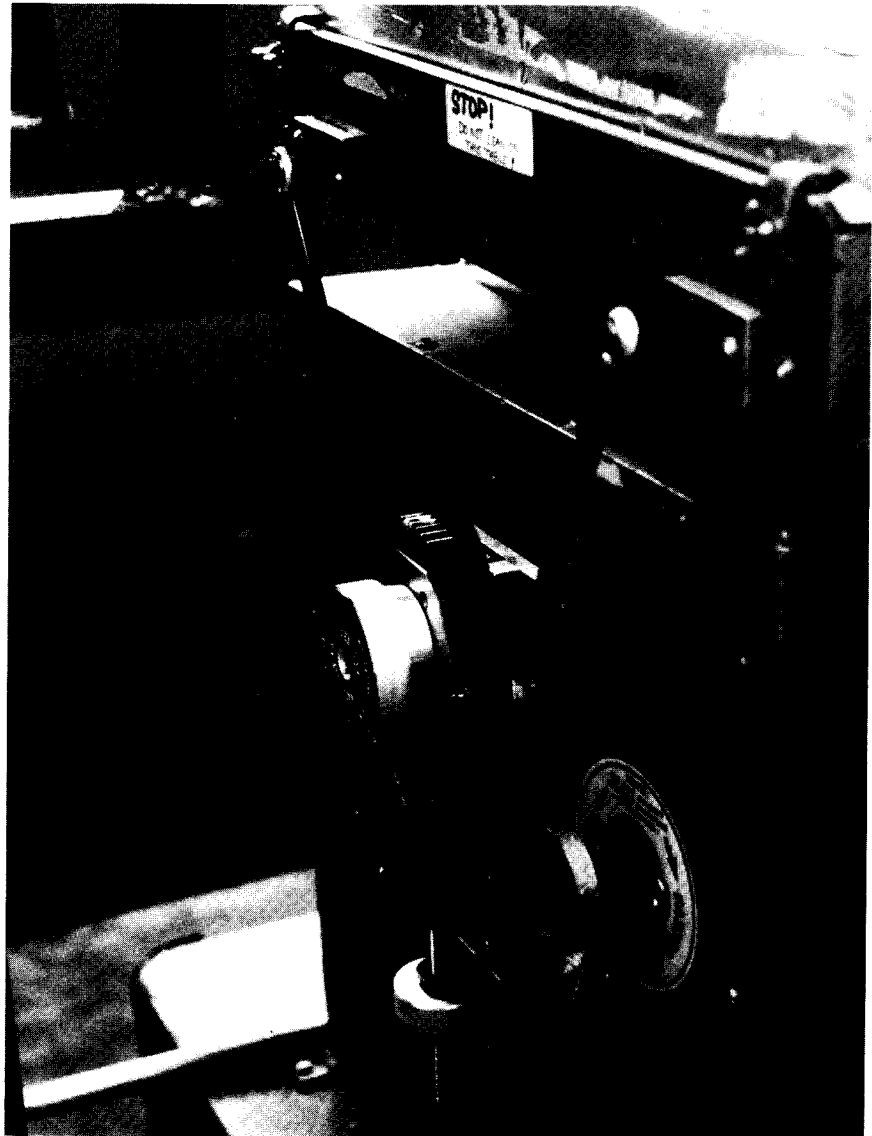
staff of the Missoula Technology and Development Center of the USDA Forest Service has provided

working drawings (fig. 3). Copies of the drawings may be obtained by contacting

USDA Forest Service  
Missoula Technology and  
Development Center  
Fort Missoula  
Missoula, MT 59801  
(406) 329-3900

or

California Department of  
Forestry and Fire Protection  
L.A. Moran Reforestation  
Center  
PO Box 1590  
Davis, CA 95616  
(916) 753-2441



**Figure 2**—Close-up side view of modification to gravity seed separator.

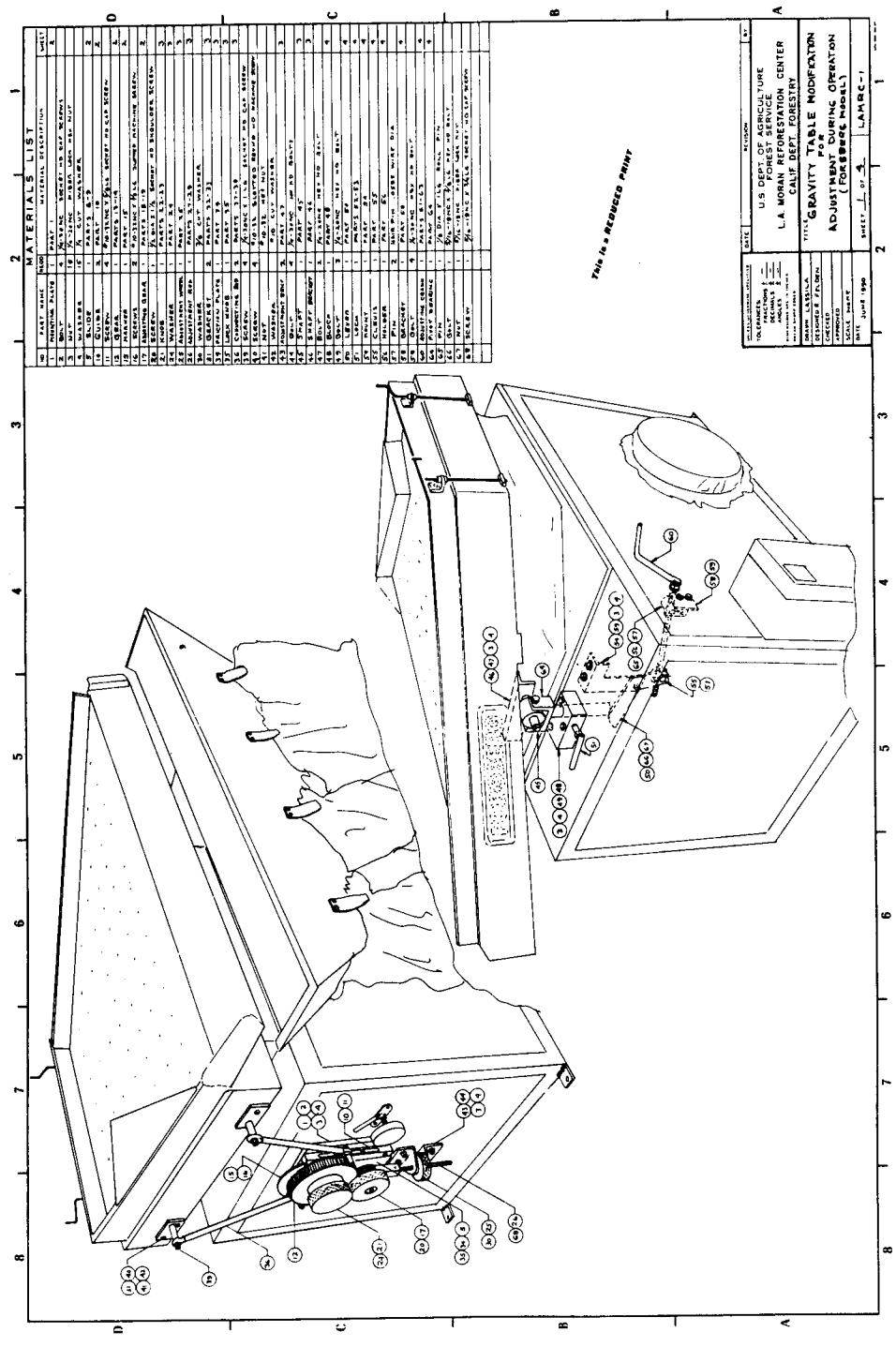


Figure 3—Line drawing of gravity seed separator.