

Modification of Gravity Seed Separator Allows Adjustment During Operation

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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.

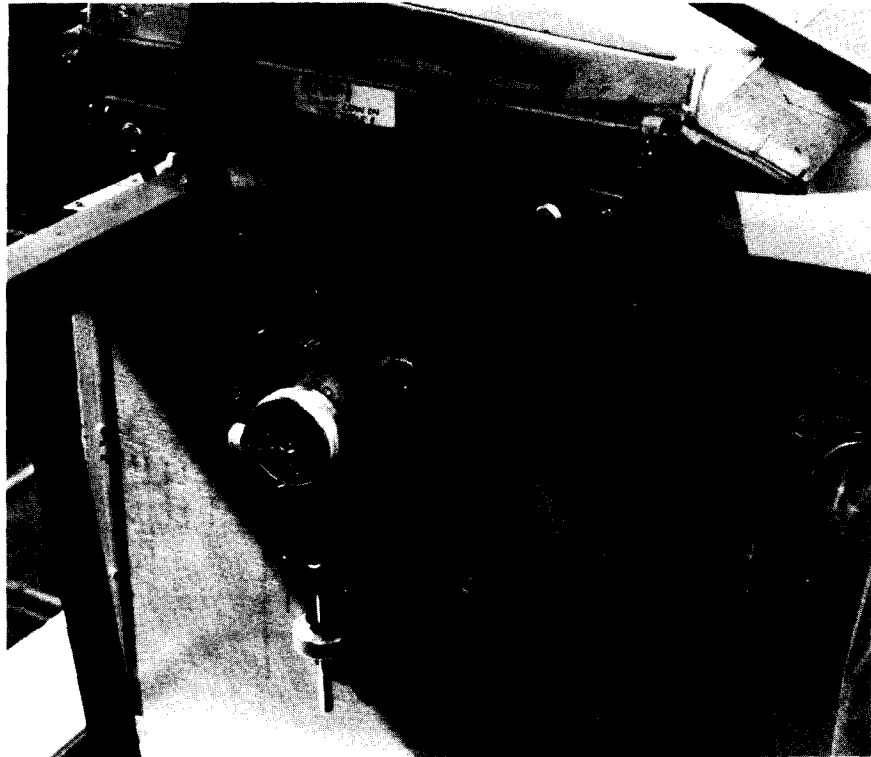


Figure 1—Frontal view of modification to gravity seed separator.

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
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PO Box 1590
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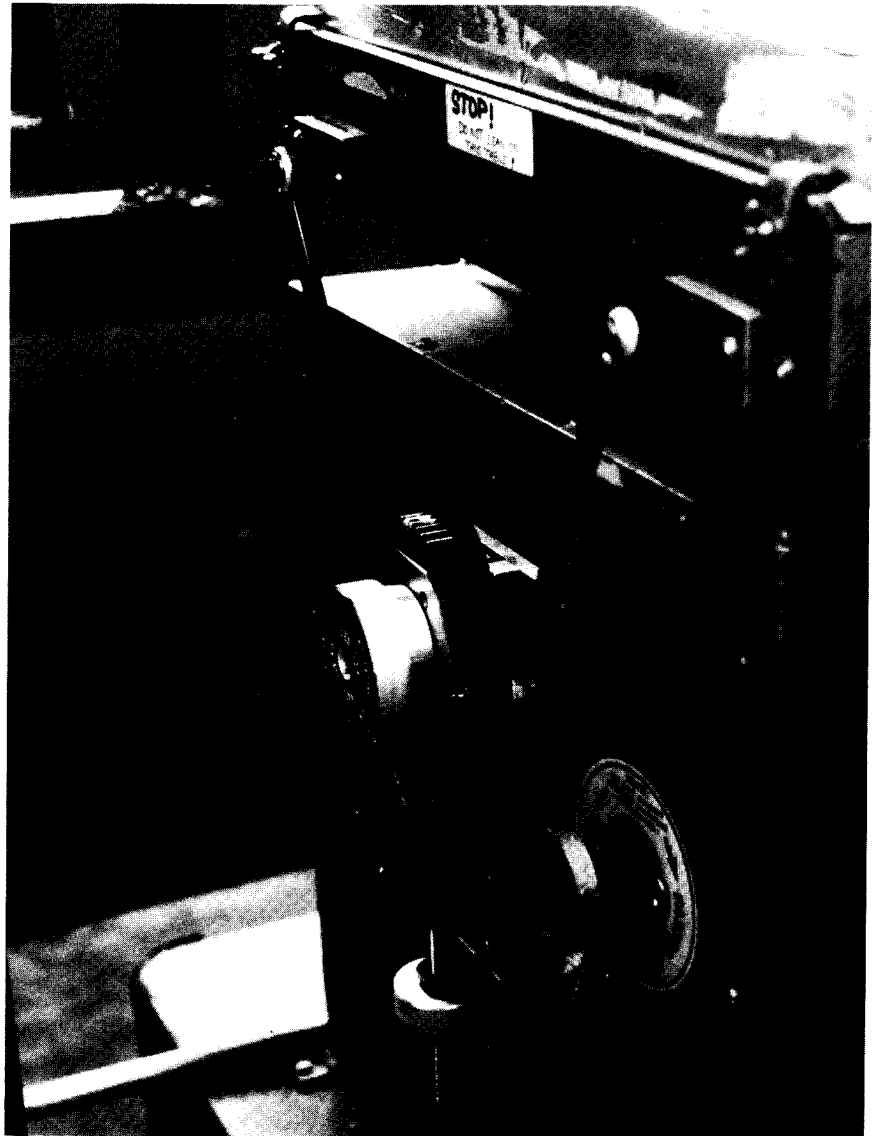


Figure 2—Close-up side view of modification to gravity seed separator.

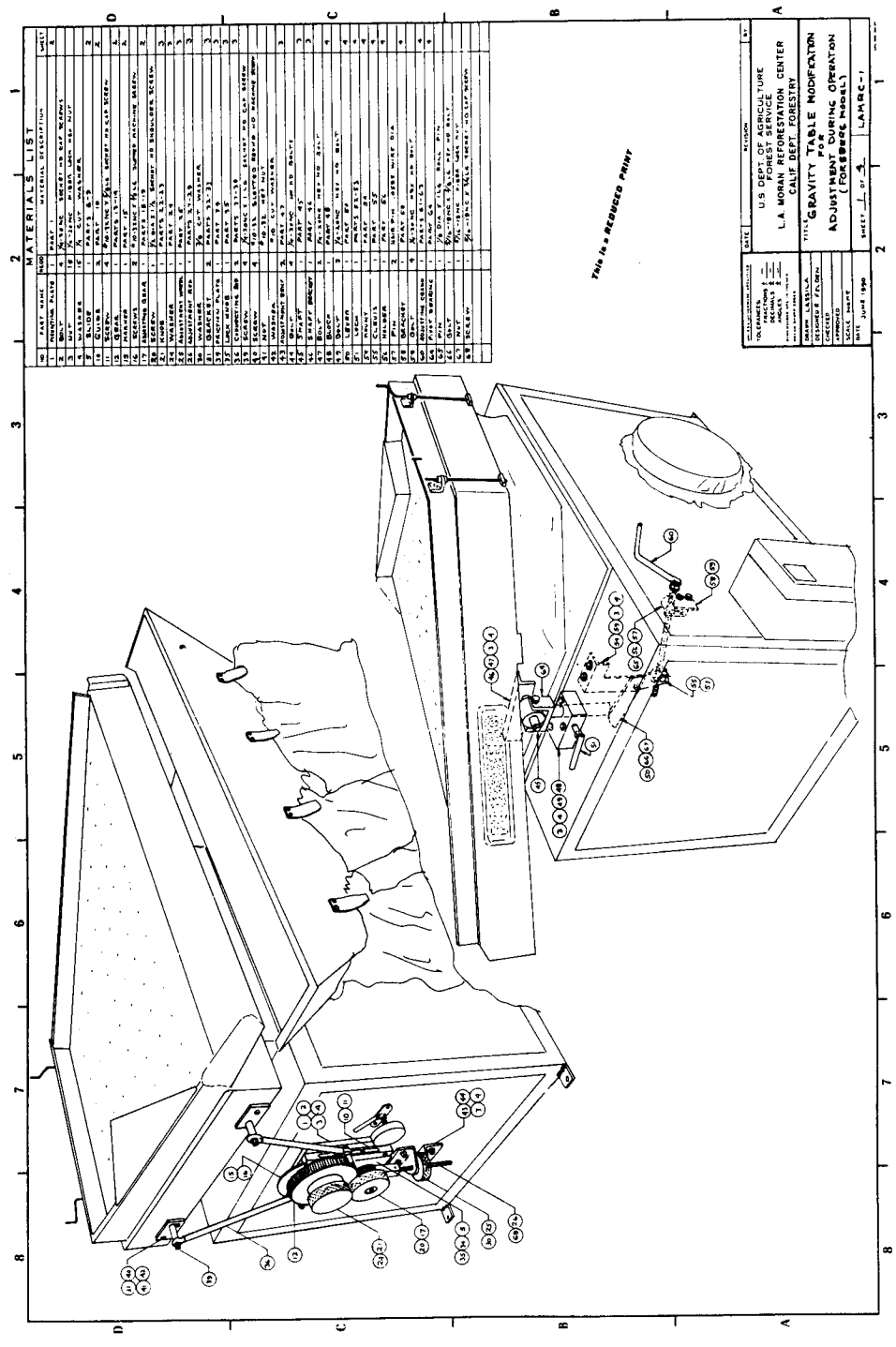


Figure 3—Line drawing of gravity seed separator.