

MOTOR-OPERATED EQUIPMENT IN
ROADSIDE DEVELOPMENT

Photographs submitted by W. J. Garmhausen, Chairman
Project Committee on Roadside Equipment

Twenty pieces of equipment successfully employed in various sections of the country in roadside development operations are illustrated.

Readers are urged to submit additional roadside equipment information to the Chairman of this committee for general introduction to the highway field.



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3 A



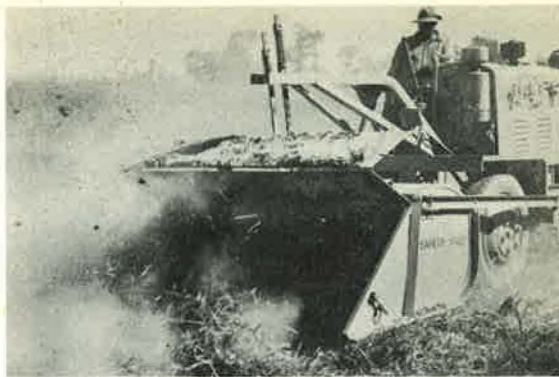
4 A

Photo No.Description

- 1 A Mechanical hole digger - operates on power take-off of jeep or tractor. Can be used on slopes as steep as 2:1. Earth auger bits up to 18-inch size. Equipment not adapted to stony or wet soil. Maximum depth of operation 3 feet.
- 2 A Front end loader - operates on hydraulic lift of tractor. Can be used to pick up topsoil and spoil material and to unload trees from trucks, etc.
- 3 A Front end loader - operates from hydraulic lift of tractor. It is being used here to load mulch materials from windrows.
- 4 A Seed and fertilizer drill in use. Has separate compartment for grass seeds, grain or legume seeds and for fertilizer. By dragging a piece of chain link fence this machine is used also to cover seed. Drills allow heavier seeds and fertilizer to be planted deeply.



12 A



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17 A



18 A

Photo No.Description

- 12 A Pulvimixer - being used to work mulch into a well-pulverized shoulder soil. Machine is operated by a separate motor; tractor provides forward motion.
- 14 A Pulvimixer - close-up showing revolving types in operation of mixing mulch into shoulder soil.
- 17 A Grass seeding and fertilizer application equipment in operation. Seed and fertilizer covered by harrow-like attachment. Roller firms seedbed. Equipment can be used on shoulders and moderate slopes.
- 18 A Same seeding equipment showing compartments for seed and fertilizer.



21 A



22 A



23 A



24 A

Photo No.Description

- 21 A Sprayer equipment used to apply 2, 4-D and other weed poisons. Machine has 806-gallon capacity and operates up to 700 pounds pump pressure.
- 22 A Same equipment with spray bar elevated to spray weed poisons on cut slopes.
- 23 A Sprayer operated with high pressure nozzle attachment for spot application. Extreme care necessary to keep weed poisons from reaching cultivated crops, ornamental trees or shrubbery in this type of spray application.
- 24 A Low pressure sprayer with hand gun used for spot application of weed poisons. Tank capacity 100 gallons, motor 1-3/4 H.P. Briggs and Stratton, delivering 70 pounds pump pressure. With special nozzle attached this machine will deliver 5 gallons of spray material to the acre at travel speed of 4 miles per hour.



26 A



27 A



28 A



31 A

Photo No.Description

- 26 A Special roller attached to tractor for rolling shoulders. Rolling is done to lower shoulder raised above pavement by frost action. Roller can be raised for transportation on attached rubber-tired wheels.
- 27 A Portable chipper in operation. Blades cut brush into small chips, blown into storage compartment. Chips can be used for slope mulching purposes.
- 28 A Log gin and chain saw in operation. Chain lift used to raise or lower log and hold it for saw.
- 31 A Portable trash burner. Oil pressure tank sends fuel through pipe with jet attachment. After trash is burned ashes can be dumped.



32 A



33 A



35 A



36 A

Photo No.Description

- 32 A Elevating grader being used to load topsoil into trucks.
- 33 A Ensilage cutter with blower attachment used to spread mulch on shoulder and slope areas. Cutting knives have been removed.
- 35 A Same equipment showing straw mulch being carried by belt conveyor to blower.
- 36 A Same equipment showing motor and trailer truck carrying baled straw mulch material.