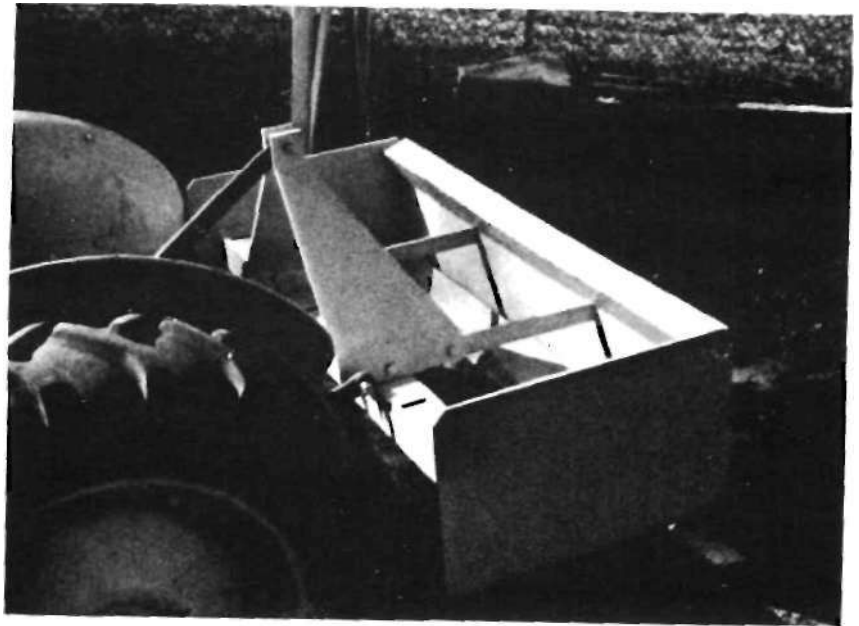


Box Grader

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Two side plates: V_8 " x 28" x 18" rectangular steel plates are cut out of a sheet of V_8 " steel with a radiograph. Tack weld them on a metal table-parallel to each other and perpendicular to the table 5' 6" apart.

Back plate: V_4 " X 15" X 65" plate is placed parallel between the side plates leaving a 2" gap at the bottom.

Blade Angler: V_4 " X V_8 " x 65", 2 pieces are tacked together at a 30° angle and placed under the back plate to take up the 2" space. The two strips are welded to the bottom of the back up plate, all the way across.

Back filling Hinge: V_4 " X 8" x 65": weld on the back plate, running parallel with it. The plate itself has been welded to pipe and the pipe has been cut in sections with every other piece welded to the back plate. The other pieces have been welded to the hinge plate with a piece of W rod going through the center of the pipe so it acts like a hinge.

Pull Tube: 2 - 4" x V_8 ", angle iron 65" long welded together to form a square tube 65" long, placed between the two side plates to the front opposite the back plate. It is 7" off the table level, across, and 3" from the front of the side plates.

3 Point Hitch: 2 pieces of V_8 " steel in a 30° triangle shape, 25" high, $\sqrt{2}V_4$ " wide, one placed on the pull bar 19" from the side plate and the same with the other one. With 2 bars 2" x V_8 " x 25" just on the inside of each triangular shaped plates - running parallel with the side plate, and table, ending at the back plate and at the pull tube. Weld the pull bars to pull-tube and triangle shape steel. Then heat the triangle shapes just at the pull bar all the way

across, pulling the tops of the triangular shapes together. Then heat the 3" squares, bending it so its straight up and down. Then weld a plate between them 2" apart.

Materials

One piece of V_8 " plate 18" x 82"
 One piece 4" x 4" angle iron 12" long
 One piece of V_4 " plate 35" x 65"
 Two cutting blades & bolts
 Two pull pins
 One V_8 " rod 65" long

