

WHEEL-LESS IMPLEMENTS

© Ford Motor Co.

All-Purpose Cultivator

FERGUSON-SHERMAN ALL-PURPOSE CULTIVATOR

**One of the most valuable tools now available
to the farmer, nurseryman or gardener**

Prepares a deep seed bed quickly and economically.

Loosens and aerates the soil to any desired depth down to 9 inches.

Renovates alfalfa and similar crops; cultivates pasture land sod.

Aids conservation of moisture in dust bowl areas by roughing in stubble and ridging to prevent soil drift.

Controls all weed pests such as quack grass, Johnson grass, thistles, bindweed, Bermuda grass and ragweed.

Easily converted to subsoiler. Breaks hardpan beneath top soil.

Ideal for summer and fall fallowing, without disturbing straw or stubble needed to retain moisture.

Prepares wheat stubble for spring crops, by mulching and weed killing.

Cultivates orchard or nursery rows, small plots and narrow sloping terraces.

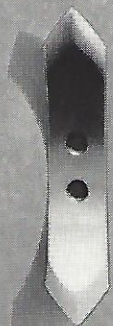
Opens newly cleared land, rough marsh land and stony ground where plowing is difficult.

Works at maximum depth, without regard for rocks, roots and other obstructions in the ground. Tool does not jump out of the ground.

Destroys rank vegetation. Keeps irrigated land level.

**These Are a Few of the Sweeps and Shovels Available for Increasing
the Efficiency of Each Particular Job**

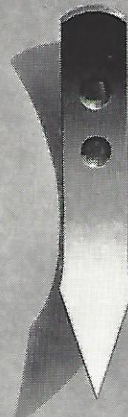
DOUBLE POINTED
SHOVEL



CHISEL TOOTH



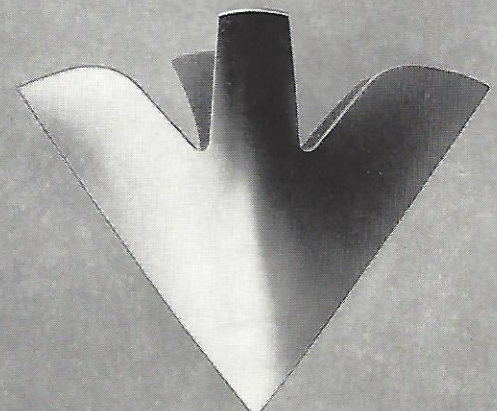
SINGLE POINTED
SHOVEL



ALFALFA TOOTH



DUCKFOOT SWEEP



PRACTICAL SOIL MANAGEMENT WITH THE FERGUSON-SHERMAN ALL-PURPOSE CULTIVATOR

The yield received from any crop depends upon the ability of the farmer to keep the roots of crop plants as healthy as possible, surrounded by soil conditions most likely to aid their development.

Like the human body, soil needs air and water. Without these elements it loses its vitality. Air and moisture are both present in the soil, but not always in the right proportion to yield the best crops. The regulation of air and water is up to the farmer—and the tools he uses.

The Ferguson-Sherman All-Purpose Cultivator is designed to help the farmer make the most of his soil conditions by working it correctly. It is a deep-working tool, ideal for the preparation of seed beds even under difficult conditions. With its regular reversible teeth, it will penetrate an inch or two deeper than the soil is plowed, break up the plow pan and loosen the sub-soil underneath. Sub-soiling in this manner after plowing allows moisture to come up to root level and raises minerals to the surface soil layers, stimulating the growth of nitrate bacteria and promoting seed germination and root penetration.

It also mixes organic matter throughout the seed bed from top to bottom, working the clods towards the top and shaking the fine soil to the bottom to make a uniform mixture of humus, fine soil and air spaces for the ideal seed bed.

Besides loosening and aerating the soil, its deep penetration makes possible the filtering of surface water down through the soil to the water table where it will be available for use in the dry season.

The All-Purpose Cultivator is invaluable for controlling quack grass, thistle, Johnson grass, bindweed, mustard, and other obnoxious weed pests.

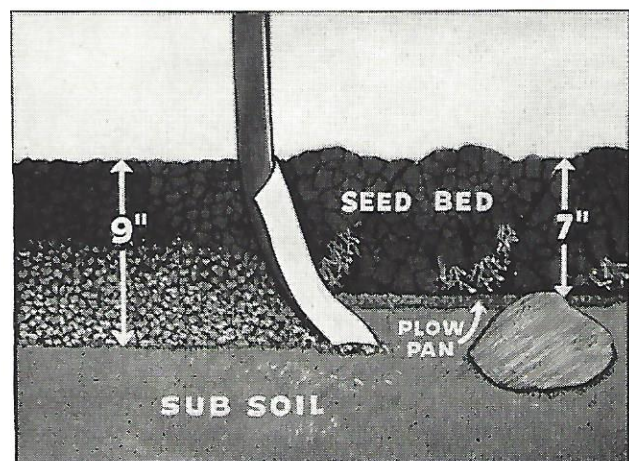
Cultivating old pasture fields or preparing marshlands or stony ground—work that cannot be readily done with other tillage tools, is easily accomplished by this implement because of its spring-trip, sturdy tines. The value of many pasture and crop lands has been increased by loosening the soil and securing proper moisture regulation and air circulation by the use of this style of tool.

Many productive orchards are situated on hillsides in rough, stony land. Orchard cultivation, even under these conditions, is comparatively simple with the All-Purpose Cultivator and the Ford tractor with Ferguson system.

Summer following with the All-Purpose Cultivator is an easy, economical and effective means of controlling weeds, conserving moisture and in some areas preventing soil drift. Roughing stubble land mixes the stubble with the soil, makes a clod mulch and ridges the field. In dry areas it is desirable to mulch underneath the straw that is left on the ground without disturbing the straw. Recent tests in Nebraska have indicated that where a cultivator of this type was used, with 10" duck foot sweeps, much more moisture was retained than with other types of tools.

In addition to the 10" duck foot sweeps, other shovels are also available for the All-Purpose Cultivator. With this selection of soil engaging parts, and with its other advantages, it is a tool whose usefulness is practically unlimited.

Deep Cultivation After Plowing

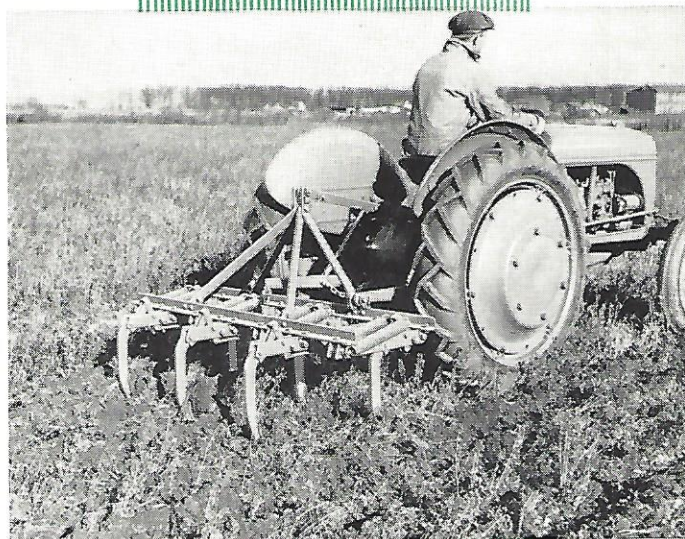


The All-Purpose Cultivator is capable of penetrating the plow pan and loosening the sub-soil underneath. After plowing, large air spaces can be effectively broken down and the soil structure more easily put into condition for better seed germination and root penetration over the entire plowed area.



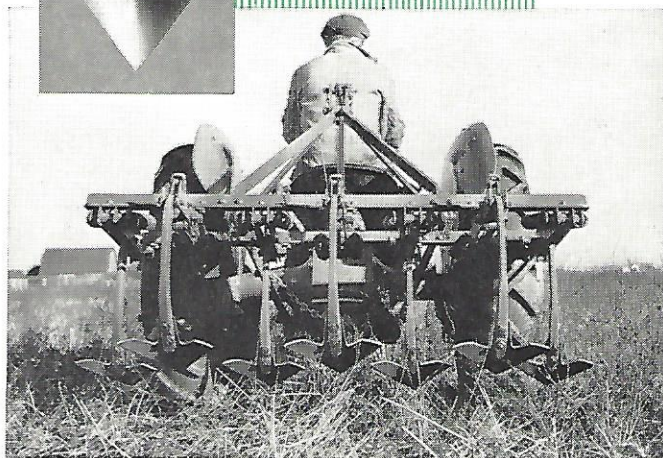
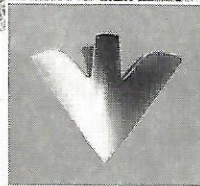
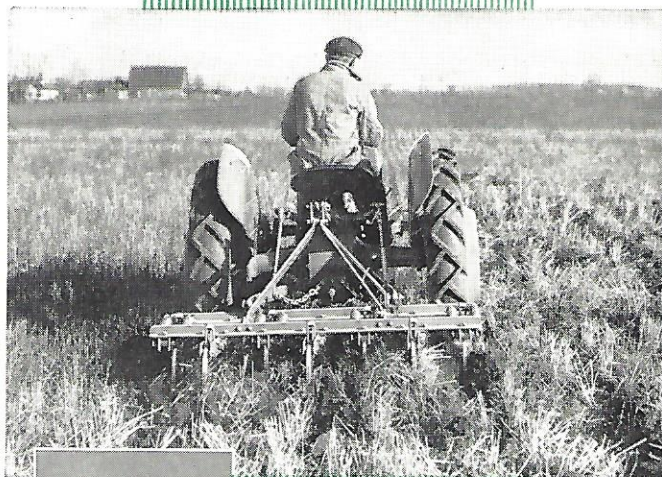
● **FALLOWING and FITTING**

An ideal tool for fall fallowing or preparing seedbeds, the All-Purpose Cultivator works easily and effectively. In corn stubble it loosens and stirs the hard-baked soil, makes a good mulch, and helps to regulate the absorption of air and moisture. The lower picture shows another typical use, renovating alfalfa. Special alfalfa teeth are available, designed to increase the crop yield and at the same time stimulating growth by mulching and aerating the soil as well as killing weeds.



MULCHING IN WHEAT STUBBLE

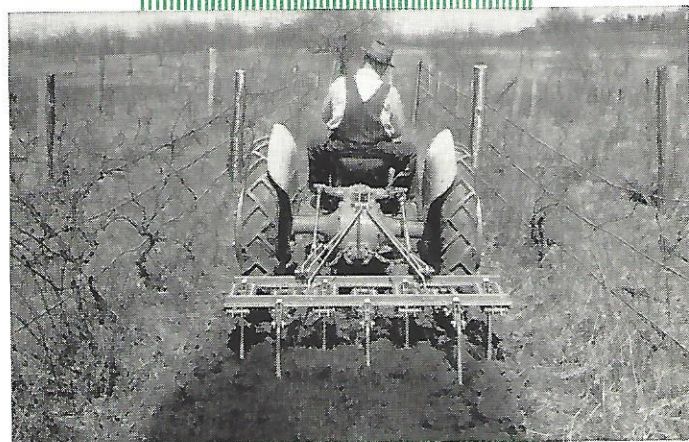
With 10-inch duck foot sweeps, which are available for it, the All-Purpose Cultivator is an ideal mulching tool, and can be set to work from 3 to 4 inches below the surface. The picture below shows a typical operation—mulching in wheat stubble, without disturbing the cover. In many dry areas, farmers make a practice of roughing grain stubble, but like to leave the cover intact to prevent loss of moisture through run-off, and to retard soil drifting. At the right, detail of 10" duck foot sweeps, one of many different types of shovels available for the All-Purpose Cultivator.





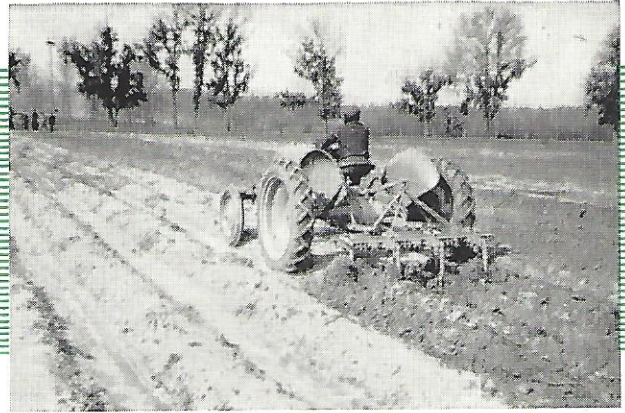
● ORCHARDS and NURSERIES

The illustrations on this page show the All-Purpose Cultivator at work on jobs to which it is particularly well suited—orchard, nursery and vineyard cultivation. With accurate depth control, and with the easy handling made possible by its close-coupled linkage to the tractor, the implement will work close to the rows, with little likelihood of doing damage to tender roots. Setting the shovels to run deeper for the middle of the row is the simplest thing in the world: Just push the hydraulic control lever down and move the stop on the quadrant. When the end of the row is reached, pull the lever to raise the tool, swing the tractor around and you're ready to start back the next row. In this kind of work, the low height of the unit is a double advantage. It will work close to the rows and will clear low-hanging branches and thus avoid damage to trees and fruit.





The operator of this Ford tractor with Ferguson system and All-Purpose Cultivator is a 12-year-old boy. The picture shows the unit being used to rebuild terraces.



Working down old cotton rows with the All-Purpose Cultivator. The Ford tractor wheels are spread out to 72 inches, enabling the tractor to work two rows at a time.

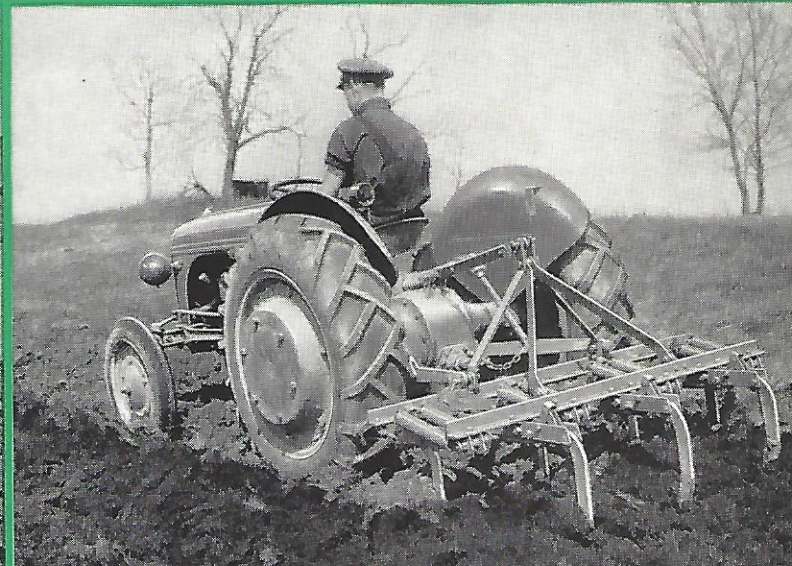
FORD TRACTOR with FERGUSON System gives implement its greater flexibility

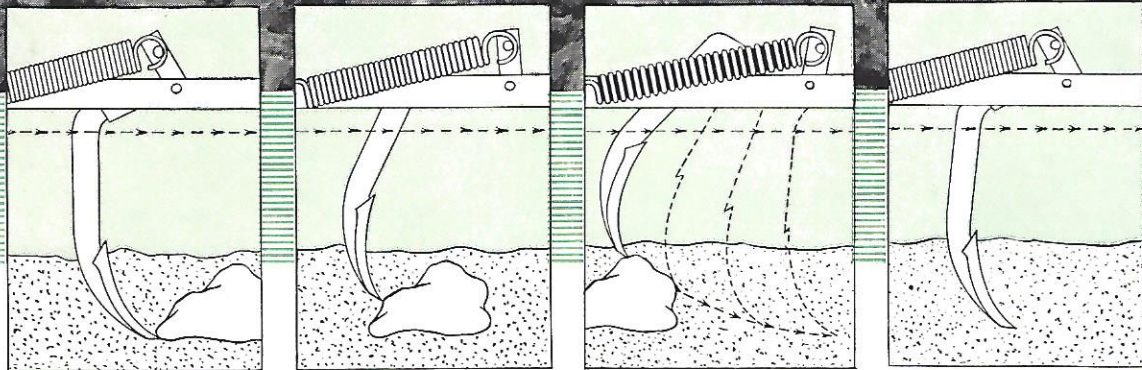
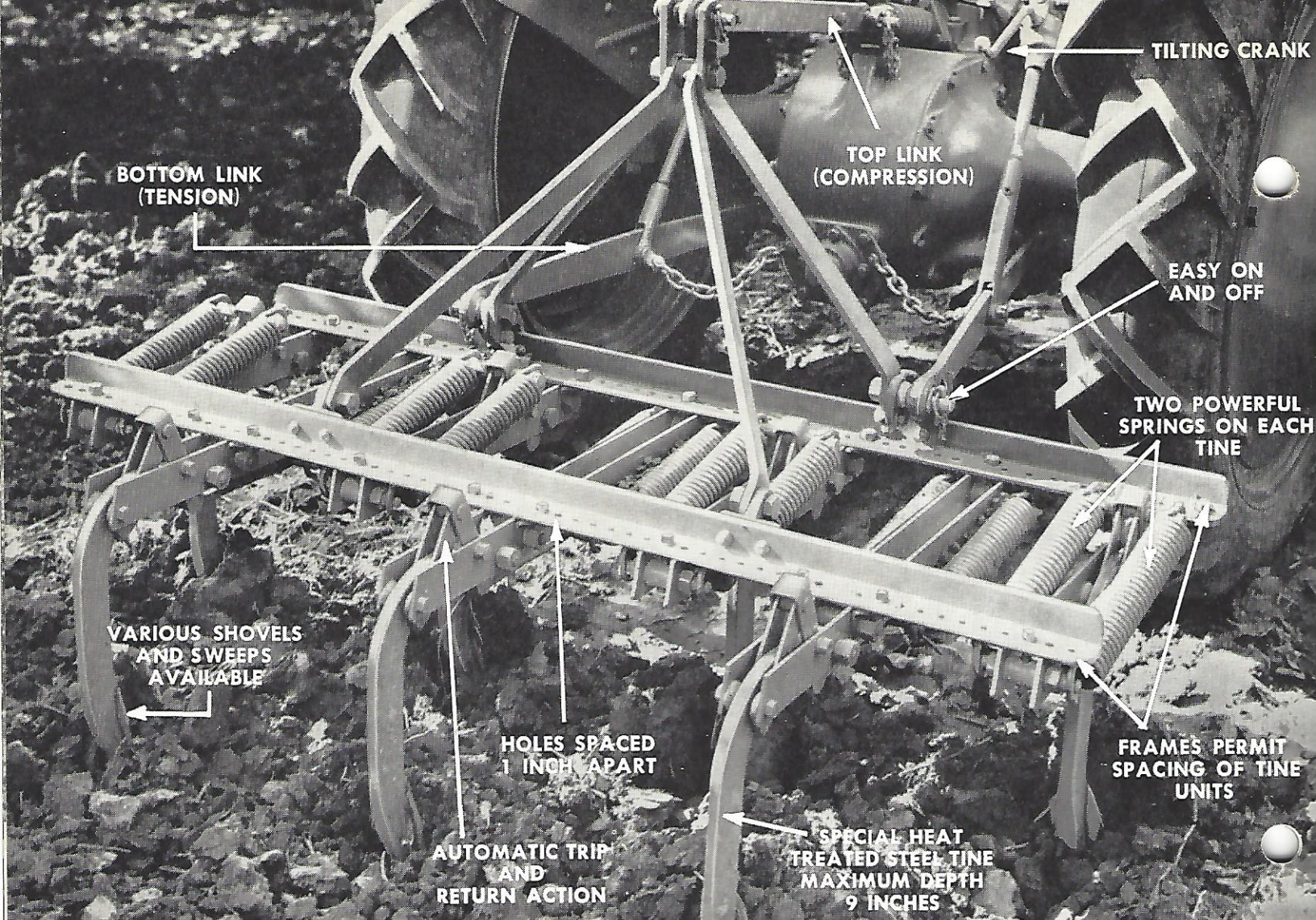
The Ferguson-Sherman All-Purpose Cultivator is designed to accomplish a wider range of soil working operations—easier, faster and at lower cost than pull-type tillage implements in general use. Like the Ferguson-Sherman plows and two-row cultivators, the All-Purpose Cultivator is attached in one minute to the Ford tractor by means of the Ferguson linkage. It responds quickly and easily to the hydraulic mechanism, raising and lowering by finger-tip con-

trol. The desired working depth may be instantly set and once it is set, is automatically maintained by the Ferguson system. Although a lightweight, exceedingly simple tool, it is very ruggedly constructed and can be used over rough land without regard for rocks, roots, and other obstructions. For sub-soiling, one or two tines can be easily removed from the frame to increase penetration.

Whether preparing a seed bed between the rows for a cover crop or cultivating to conserve moisture and destroy weeds, the All-Purpose Cultivator furnishes the means to do these operations economically and easily.

One farmer writes that the All-Purpose Cultivator is fine for seeding on hillsides—it tears up the soil for the seed, but leaves trenches to catch the rain and prevent erosion.





The action of the tines, which automatically re-set themselves in the ground after striking and riding over an obstruction is illustrated in the diagram above. The first picture at the left shows the shovel about to come in contact with a buried rock. In the second picture, the tine has tripped, and is dragging over the rock. In the picture at the right, the tine has automatically re-set itself and continues work in a normal position.

Ask Your Ford Tractor Dealer for a Demonstration on Your Farm

FERGUSON-SHERMAN MANUFACTURING CORPORATION • DEARBORN, MICHIGAN