

# Gas Saving Tips for Farm Machines

As an aid to farmers and ranchers faced with tight fuel supplies, Sperry New Holland has compiled a list of fuel saving tips for operating various types of equipment.

These suggestions have been made by the men who service New Holland equipment and who are experienced in the operation of these machines in the field.

## HAY BALER

Probably the most power-consuming area of the baler is the slicing knives on the plunger in the bale chamber. If these knives are not kept as sharp as they should be or if the clearance between them is not proper, excessive power is used resulting in excessive consumption of fuel, along

with mechanical problems such as excessive flywheel shear bolt breakage.

1. Keep slicing knives sharp at all times.

2. Maintain proper clearance between the slicing knives.

3. Bale as tight as necessary for the purpose required but don't bale tighter than necessary.

4. Reduce engine to idle speed at the end of windrows or when moving from one windrow to another.

5. Keep tires properly inflated.

6. When windrows are extremely light, rather than continue running the baler at full speed, lower the baler RPM and increase ground speed by going to a higher gear in the tractor - not by

increasing tractor engine speed.

## COMBINE

There is no way that you can slow a combine engine down and reduce fuel consumption because a combine engine must run at a constant speed for efficient threshing.

However, there are things you can do with the engine to make sure that it will perform to its optimum capability and burn less fuel while doing so. Some of the things you can do are:

1. Make sure that your plugs and points are in good condition. Check them before going into the field cleaning the plugs and resetting the gap and replacing the points if they are pitted. The opening on the points should also be adjusted to the specs of the engine manufacturer. It is wise if the points are replaced to replace the condenser as well.

2. Make sure that your carburetor is clean and that the float level is properly adjusted and that the mixture is properly set so that excessive fuel is not consumed.

3. Service the engine air cleaner regularly to make sure that the engine is not starved for air thereby increasing fuel consumption.

4. Make sure that the combine is well lubricated and that all drives are properly adjusted so that extra horsepower is not required to keep the machine operating efficiently.

Sometimes a slight reduction in ground speed

can save a lot of fuel in a combine. By watching the cylinder tachometer the operator can tell, based on the fluctuations of the tachometer needle, how frequently it is necessary for the engine governor to cut in and provide extra power to maintain the constant RPM of the threshing mechanism. Each time the engine governor cuts in, more gasoline is injected into the engine and fuel consumption goes up. It is therefore possible for the operator to save fuel by reducing the ground speed of the machine so that the engine works consistently and that the governor through its constant action is not injecting excessive quantities of fuel into the engine with the booster pump.

Sometimes, if you are going to be stopped for a few minutes, it is better to leave the engine idle than to shut it off particularly if the engine is hot. It takes less fuel to leave an engine running at an idle than it does to stop a hot engine and then try to get it started again a few minutes later.

## Tire Pressure

The tires of the combine should always be inflated to the specifications outlined in the operators manual. If tires are under-inflated more fuel will be consumed in propelling the machine down the field.

## MOWER-CONDITIONER

1. Keep sickle sections sharp at all times.
2. Replace guards when ledger surfaces become rounded.
3. Keep hold-down clips in proper adjustments.
4. Keep guards in good alignment.
5. Keep engines properly tuned with frequent check of points, plugs and timing. (self-propelled)

6. Keep tires properly inflated.

7. Service air cleaner frequently. (self-propelled)

8. Properly adjust reel location and speed for specific operating condition.

9. Follow recommended lubrication practice to

minimize friction.

10. Maintain proper lift spring adjustment to minimize lift energy.

11. Do not run the rake basket lower than necessary to maintain clean raking.

12. Harvest crop at op-

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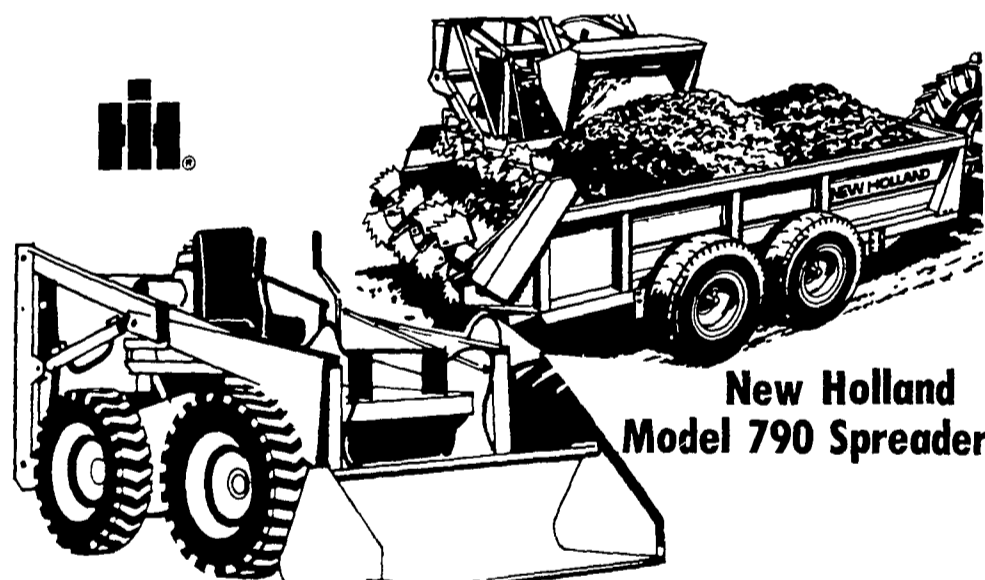
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