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NEW METHODS OF FARM MACHINERY MAINTENANCE

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Farming processes continue to develop with increasing rapidity. Pre-history farming involved seeding, tilling and harvesting done by hand. However, agriculture would develop different kinds of farming tools to aid the farming process. Hand tools like machetes, mattocks, hoes, shovels, rakes and shears were some of the many tools that aided farmers.

The industrial revolution ushered in an age which would allow for agricultural vehicles powered by steam. These heavy machines came in all shapes and sizes depending on the farming tasks they had to do.

Nowadays many companies sell advanced farm machinery that makes farming processes easier and faster than ever before. The farm machinery combines advanced engineering with innovative design, which makes them durable enough to withstand the harshest conditions. Upgrading your farm machinery with the latest technology is truly advantageous [1, p. 31].

After spending hundreds of thousands of dollars on farm equipment, you'll want to do all you can to ensure that you take proper care of your investment. You wouldn't let your car sit idle, collecting rust and accumulating dust on its working parts. Why would you let the same happen to your equipment? Luckily, there are easy methods you can use to prevent agricultural equipment from being damaged by the elements.

When it comes to cleaning your equipment, some people recommend using a pressure washer. Stand 2 to 3 feet away from the surface you're cleaning and use different attachments to properly clean the equipment. For equipment that is covered with mud or silt, make sure you clean it quickly after you finish using it so the substances don't have the chance to harden on your equipment.

It is also a good idea to purchase additional spare parts so you have them on hand in the event you need to make some repairs to your equipment. It can take several days or weeks if you need to have a part shipped to you, so having it available right away can prevent you from spending days or weeks without your equipment.

For some general preventative maintenance, you'll want to perform some recommended services, similar to those you might perform on your car.

- Check hoses, fittings, and seals to ensure they're in good condition.
- Check the engine's oil and coolant; and other fluids.
- Check the filters and replace them as needed.
- Make sure all the tires, wheels, wheel bearings are ready for use and properly inflated.
- Inspect the battery and make sure there are no signs of corrosion.
- Make sure all your lights, signals, and hazards are working properly, and also check your hardware for loose or missing pieces.

In addition to these maintenance tips, you should also consult your equipment's owner's manual to see if there is anything else you will need to do to make sure your equipment is running efficiently.

Rust can cause big problems for your farm equipment. Luckily, some simple maintenance tips can help prevent rust from forming. First, you'll want to make sure that you properly clean off machinery after you use it. (Pressure washing the machinery as mentioned earlier should be enough to keep your machinery clean.) You'll also want to store the equipment in a shed to keep it clean and dry. ProBuilt Steel Buildings offers custom metal barns and agricultural buildings that you can build to the dimensions you need for your machinery.

For additional rust protection, consider waxing your equipment touching up the paint on the machine to provide additional protection.

You can also purchase special products to spray on your equipment, such as Fluid Film or Bull Frog Rust Blocker, that will inhibit rust from forming [2].

Farm machinery maintenance has a crucial role for successful agricultural production. It aims at guaranteeing the safety of operations and availability of machines and related equipment for cultivation operation. Moreover, it is one major cost for agriculture operations. Thus, the increased competition in agricultural production demands maintenance improvement, aiming at the reduction of maintenance expenditures while keeping the safety of operations [3, p. 147].

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ПРИМЕНЕНИЕ ДРОНОВ В СЕЛЬСКОМ ХОЗЯЙСТВЕ

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Сельское хозяйство за последнее столетие прошло большой путь. Мы производим больше продуктов питания, чем когда - либо прежде. Но по мере того, как население мира быстро приближается к отметке в 8 миллиардов, современные методы производства продуктов питания требуют радикальной трансформации. Есть целый ряд новых технологий, которые могут сделать это возможным.

Новые технологии позволяют фермерам повысить эффективность производства сельскохозяйственных культур и