

# JOHN DEERE 214 AND 216 FORAGE WAGONS



JOHN DEERE

## OPERATORS MANUAL JOHN DEERE 214 AND 216 FORAGE WAGONS

OMW21341 L2 English

JOHN DEERE WELLAND WORKS  
OMW21341 L2

LITHO IN THE U.S.A. (REVISED)  
ENGLISH





## To the Purchaser

---

This new forage wagon was carefully designed and manufactured to give years of dependable service. To keep it operating effectively, read the instructions in this operator's manual.


Each section is clearly identified so you can easily find the information you need—whether it is operation, lubrication, or service. Read the Table of Contents to learn where each section is located.

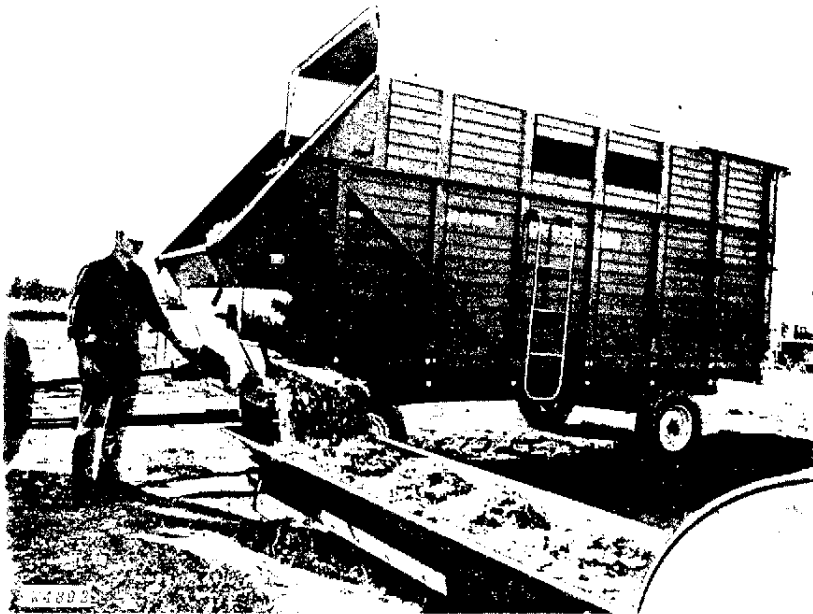
In addition to the equipment furnished with your forage wagon, extra equipment is available to help you do a better job under most conditions. These are described in the extra equipment section of this manual and can be purchased from your John Deere dealer.

"Right-hand" and "left-hand" sides are determined by facing in the direction of forward travel.

Record your forage wagon serial number in the space provided on page 25. Your dealer needs this information to give you prompt, efficient service when you order parts or attachments. If your forage wagon requires replacement parts, go to your John Deere dealer where you can obtain Genuine John Deere parts—accept no substitutes.

The warranty on this forage wagon appears on your copy of the purchase order which you should have received from your dealer when you purchased the forage wagon.

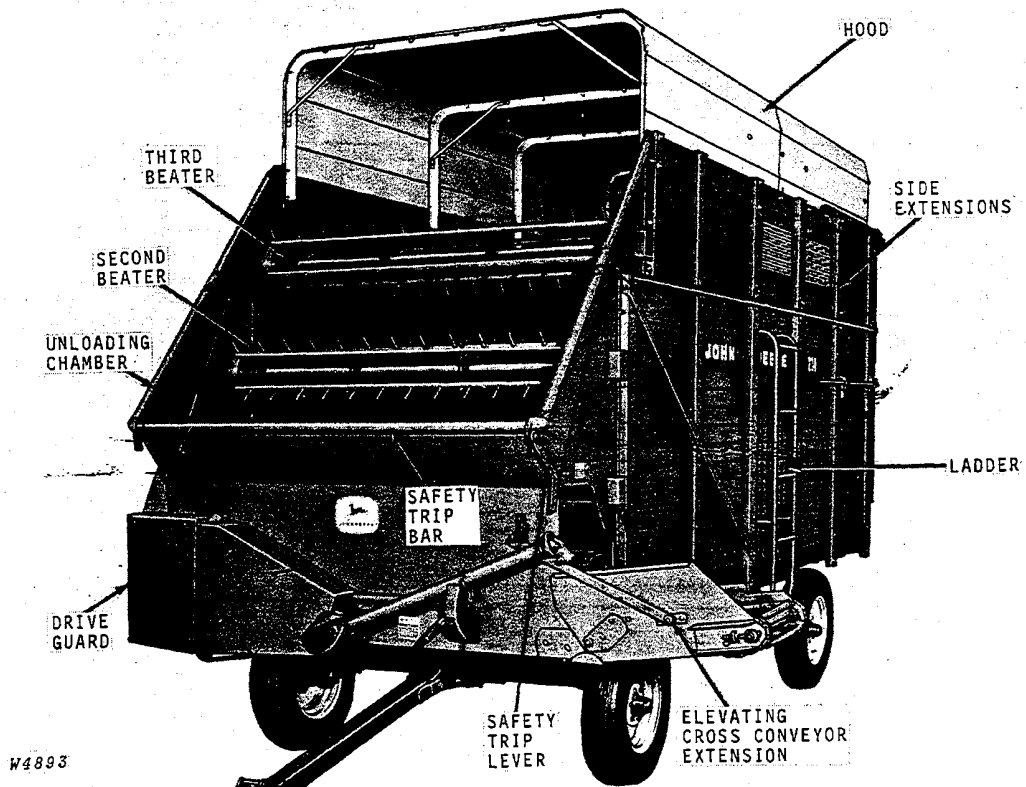
 This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.





# Contents

	Page
IDENTIFICATION VIEW .....	1
OPERATION .....	2-16
LUBRICATION .....	17-18
SERVICE .....	19-20
TROUBLE SHOOTING .....	21
ATTACHMENTS .....	22-23
SPECIFICATIONS .....	24



John Deere 214 Forage Wagon with Front and Rear Unloading Mounted on John Deere 1065 Wagon



# Operation

## PREPARING THE FORAGE WAGON

Operator safety and forage wagon efficiency will depend on the proper combination of load size, wagon gear capacity, tire size and tire pressure.

Read the following chart to determine maximum allowable load for 214 and 216 Forage Wagon boxes.

The chart is based on wagon box volume and the following crop weights.

Crop	Weight (lb./cu. ft.)
Shelled corn	45
Silage	26
Haylage	18
Chopped dry hay	12

FORAGE WAGON BOX CAPACITY

Wagon Box Size	Wagon Box Weight (Tons)	Shelled Corn	Max. Net Load (Tons)		Chopped Hay
			Silage	Haylage	
214 Forage Wagon (5 Ton Max. Net Load)					
50" Sides (388 Cu. Ft.)	1-1/4	Not Grain Tight	5	3-1/2	2-1/2
76" Sides (574 Cu. Ft.)	1-1/2	Not Grain Tight	Do Not Fill Above 50"	5	3-1/2
76" Sides and Hood (729 Cu. Ft.)	1-3/4	Not Grain Tight	Do Not Fill Above 50"	Do Not Fill Above 76"	4-1/2
216 Forage Wagon (6 Ton Max. Net Load)					
50" Sides (442 Cu. Ft.)	1-1/2	Not Grain Tight	6	4	2-1/2
76" Sides (657 Cu. Ft.)	1-3/4	Not Grain Tight	Do Not Fill Above 50"	6	4
76" Sides and Hood (835 Cu. Ft.)	2	Not Grain Tight	Do Not Fill Above 50"	Do Not Fill Above 76"	5

Determine gross load by combining weight of Forage Wagon and net load to be carried. Gross load must not exceed the capacity of the wagon gear.

Note that wagon gear rating is the maximum recommended load for the gear when tire capacity is greater than the gear rating. When the tire capacity is less than the gear rating, the tire capacity becomes the maximum recommended gross load of the unit.

The ground contact area is an indication of flotation

characteristics. Use the chart below to help determine required tire size.

The wagon maximum gross load is rated at 5 mph, the speed at which the tires have their greatest carrying capacity. As speed increases, note that the carrying capacity of the tire and the maximum gross load decreases.

Use the following chart to determine proper gear and tire capacities.

**WAGON GEAR AND TIRE CAPACITY**

Wagon Gear	Tire	Ground Contact Area (Sq. In.)	For Speeds Up to 5 MPH		For Speeds Up to 10 MPH		For Speeds Up to 20 MPH	
			Max. Gross Load (Tons)	Tire Press. (PSI)	Max. Gross Load (Tons)	Tire Press. (PSI)	Max. Gross Load (Tons)	Tire Press. (PSI)
953 (4 Ton Rating)	7.60 x 15 6PR	210	4	40	3.8	36	3.4	36
	9.5L x 14 6PR	260	4	30	3.8	30	3.4	30
	7.50 x 16 8PR	225	4	40	3.8	36	3.4	36
963 (5 Ton Rating)	7.60 x 15 6PR	210	4.35	40	4.15	40	3.7	36
	11.00L x 15 8PR	310	5	32	4.75	32	4.25	32
	7.50 x 16 10PR	225	5	48	4.75	44	4.25	44
1065 & 1065A (7 Ton Rating)	7.60 x 15 6PR	210	4.35	40	4.15	40	3.7	36
	7.50 x 16 10PR	225	7	62	6.65	60	5.95	56
	11.00L x 15 8PR	310	7	42	6.65	40	5.95	36
1074 (10 Ton Rating)	8.25 x 16 8PR		10	50	9.5	50	8.5	50
	8.25 x 16 10PR		10	60	9.5	60	8.5	60
	9.00 x 16 8PR		10	50	9.5	50	8.5	50
	9.00 x 16 10PR		10	60	9.5	60	8.5	60
1075 (10 Ton Rating)	12.5 x 16 12PR	368	9.8	52	9.2	56	8.3	56
1275 (12 Ton Rating)	11.00L x 15 12PR	470		60	10.8	60	10.2	56
	7.50 x 16 10PR	335	9.5	60	9	60	8	56

## PREPARING THE FORAGE WAGON—Continued

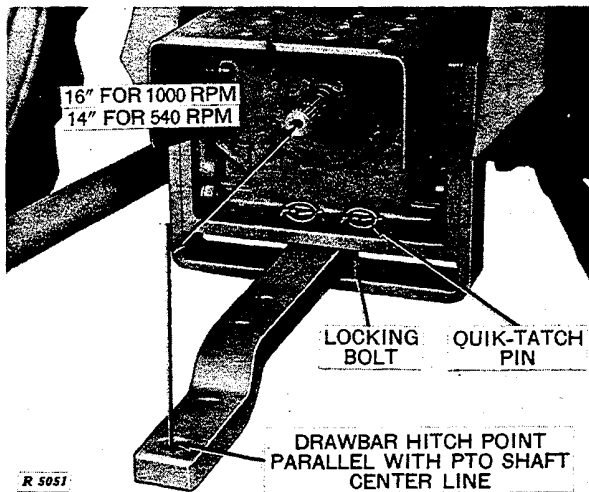
**CAUTION:** Never tow a fully loaded forage wagon at a speed greater than 5 mph, unless the wagon is equipped with brakes. In any case, never tow a loaded wagon over 20 mph. Never drive a tractor and a fully loaded forage wagon down a hill that is steeper than 15 degrees, unless the wagon gear is equipped with brakes.

### Lubrication

Be sure forage wagon has been properly lubricated. See pages 17 and 18.

## PREPARING THE TRACTOR

### Adjusting Tractor Drawbar



Place the drawbar in the extended position, with the hole in the end of the drawbar 14 inches (540 rpm operation) or 16 inches (1000 rpm operation) from the end of the PTO shaft.

Lock the drawbar in its crossbar, parallel with the centerline of the powershaft, placing the locking bolts on either side of the drawbar.

**NOTE:** If the tractor has an offset drawbar, offset should always be down for PTO work.

### Front End Weighting

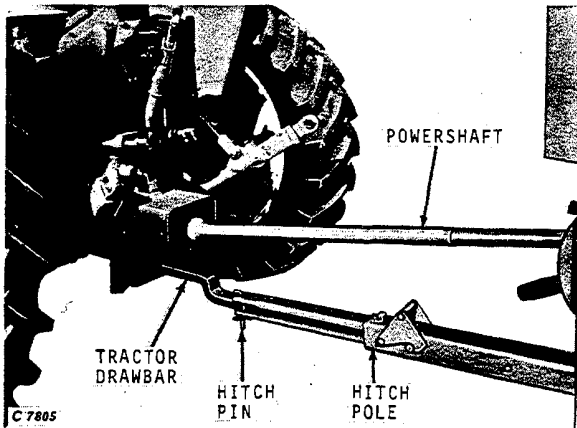
Provide sufficient weighting to stabilize front end of tractor when operating on hilly land or other adverse conditions. See your tractor operator's manual for front end weighting information.

### Tire Inflation

Check front and rear tractor tires to be sure they are inflated according to the recommendations given in the tractor operator's manual.

## HITCHING TO TRACTOR

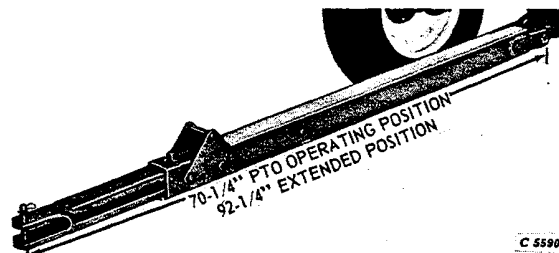
### Connecting Hitch Pole to Drawbar



The drawbar must be between the upper and lower plates of the hitch clevis. Carefully back the tractor into position and insert the hitch pin through the upper clevis plate, drawbar, and lower clevis plate. Secure the hitch pin with the spring locking pin.

**Do not transport the forage wagon unless the spring locking pin is installed in the hitch pin.**

### Hitch Poles



The telescoping adjustable hitch pole is available as extra equipment with the wagon gear. It permits easier hook-up between the forage wagon and tractor, and easier adjustment to longer hitch lengths when the forage wagon is used with a corn picker or baler with bale ejector.

Refer to the John Deere Wagon operator's manual for instructions on adjusting the length of the hitch pole.

When the forage wagon is used behind a corn picker or baler with bale ejector, adjust the telescoping hitch pole to 92-1/4 inches.

**Buy Now**



Our support email:

[ebooklibonline@outlook.com](mailto:ebooklibonline@outlook.com)