



HarvestTec<sup>TM</sup>

EST. 1976

# **Harvest Tec, your trusted advisor for hay and forage solutions since 1976.**

Explore our full lineup of hay preservative, applicator solutions,  
and accessories—all designed to support better  
forage management from start to finish.





## Applicators & Moisture Sensors

No matter what baler you use, there is a model of Harvest Tec applicator for you. Pair it with our Baler's Choice™ hay preservative and you'll have the most efficient, advanced, and easy to use application system on the market.

### Efficient Design With You In Mind

Tanks and saddles have been engineered to mount on all makes and models of balers. They are designed with you in mind; easy to reach and fill, yet out of the way.



### Large Square Balers

Baler's Choice™ hay preservative is formulated with the large hay producer in mind. Bales produced between 16% and 27% moisture will not heat and will maintain their high quality, smell and appearance when treated with Baler's Choice™.



### Round Balers

Hay can be baled with Baler's Choice™ at moistures up to 30% with a round baler, extending the hours of operation. Although no preservative product can reduce outside weathering, Baler's Choice™ can preserve the quality of the inside.



### Small Square Balers

Baler's Choice™ enables hay to be baled at moistures up to 30% with small square balers. Get out in the fields early, even on cloudy days, and work later in the evenings when the dew is heavier.

## Better Bales With The Right Application Equipment

Greener hay with high feed value is the ultimate goal of every smart producer. All it takes is the right application system. Harvest Tec applicators are available for every make and model of baler, and allow the operator to apply preservative efficiently and effectively to match hay conditions. Large or small, our application process means your crops are baled at the highest quality possible, with minimal product waste.



## Moisture Doesn't Stand a Chance

Harvest Tec's automatic applicators are equipped with in-chamber moisture sensors. The sensors accurately sense moisture levels while baling and take a reading across the entire width of the bale, 100 times every 3 seconds. This allows the operator to see real-time moisture levels and monitor changes in the field.

### Large Square Balers

700 Series Automatic systems for large square balers are equipped with star wheels that mount on the top of the bale chute. Accurately reads moisture from 8% to 70%.



### Round Balers

Automatic systems for round balers are equipped with two sensing discs, one mounted on each of the baler's sidewalls. Reads moisture from 8% to 60% on 300 and 700 series systems. US Patent 8,860,443



### Small Square Balers

Sensors for the automatic system on small square balers consist of two star wheels that mount on the bottom of the bale chute. Reads moisture from 8% to 32% on 300 and 700 series systems.



### Pumping System & Spray Shields

The 300 and 700 Series Automatic systems have a single pump with dual pulsing solenoids. As the hay moisture fluctuates, the system adjusts the pumps as needed to apply the right amount of preservative on the go.

The electronic applicator consists of a single pump and gauge. The pumping rate is increased or decreased by manually adjusting the control box in the cab.

Consistent preservative coverage throughout the crop is critical. Each baler model has a spray shield designed to fit specifically in the pick-up area, to assure complete and accurate coverage.





### **An Automatic System Creates Exceptional Bales**

The automatic applicators work as you go, applying the right amount of preservative at the right time, based on moisture levels. You can bale faster and complete more tonnage while tracking the volume of preservative used. Application systems are designed specifically for every make and model of large square balers, small square balers, and round balers.



## Automatic Controls For Large Square Balers

### 700 Series

The new 700 Series Automatic Applicator System for large square balers makes baling quality hay easier and more efficient. Features include:

- ISOBUS compatible
- Records bale information and job records
- Ability to export job records to USB flash drive
- Provides capacity to add on additional features such as moisture dye sprayer, bale weight information, and GPS position of where bale is tied
- Applicator can be controlled through baler ISOBUS, or customer's tablet\*

*\* Requirements to run 700 series thru iPad are 3rd Generation (2012 or newer) with current operating system, plus Harvest Tec Precision Bale App.*

*\* Requirements to run 700 series thru Samsung tablet are Google Play 5 operating system, plus Harvest Tec Precision Bale App.*



If a baler or tractor is not equipped with an ISOBUS monitor, the operator also has the option of using their own tablet display via charging cable into the ISO Communication Module located in cab of tractor. Any one of these options give the operator complete control and provides information for any baler equipped with the automatic applicator. The baler monitor and tablet display:

- Moisture content
- Speed of baling (tonnage)
- Volume of preservative used per bale
- Target application rate and actual application rate
- Total tons baled



## Automatic Controls For Round and Small Square Balers

### 300 Series

The new automatic system for round and small square balers. Consisting of a redesigned and compact processor, and a single bypass pump that supplies constant pressure to a pulsing solenoid, it is an improvement in efficiency and response time for applying preservative. The operator has the option of running the applicator through their own iPad\* or iPad mini via charging cable for a clear, colorful display. The automatic system is able to store up to 60 job records by field name with total tons baled, average high moisture, date and time, and amount of preservative used.

#### 300 & 700 Series Monitors Display:

- Moisture content
- Speed of baling (tonnage)
- Volume of preservative used per bale
- Target application rate and actual application rate
- Total tons baled

*\* Requirements to run iPad are 3rd Generation iPad (2012 or newer) with iOS 8 or greater operating system, plus Harvest Tec App.*

### 700 Series

The 700 Series Automatic Applicator System for round and small square balers makes baling hay and keeping track of bales virtually effortless. The system is equipped with a single bypass pump that supplies constant pressure to a pulsing solenoid(s), a flow meter with improved reliability to control the rate of application, and superior sealing Deutsch plugs throughout harnesses. The operator will have access to individual bale details in job records and the ability to add options like a dye-marker kit or a stroke counter on small square balers to monitor the number of flakes per bale. The 700 series is designed to display on a dedicated virtual terminal, or a tablet. Alternatively, a separate adapter harness can be used to integrate into most tractor virtual terminals.





# Control Options

## Innovation That Works For Large Balers

Automatic applicators take the guesswork out of baling. They also make it easy and convenient. You have complete control from the tractor with an ISOBUS monitor, or the customer’s tablet. Leading-edge technology that works for you.



## Automatic Mode

On the main operating screen, moisture readings are averaged every three seconds; baling rate every five seconds. The controller can match application rate for precise application.



FIELD	AVG MOISTURE	HIGH MOISTURE	PRESERVATIVE	BALE NUMBER	BALE WEIGHT	DATE/TIME BALED
VAN1	7	12	0	5353602299	1200	10 JUN 14 00:42
VAN1	7	11	0.1	5353602300	1200	10 JUN 14 00:43
VAN1	7	10	0	5353602301	1200	10 JUN 14 00:45
VAN1	16	20	2.4	5353602302	1200	10 JUN 14 00:46
VAN1	13	20	1	5353602303	1200	10 JUN 14 00:47
VAN1	13	18	1.6	5353602304	1200	10 JUN 14 00:49
VAN1	11	15	0.1	5353602305	1200	10 JUN 14 00:51
VAN1	8	18	0	5353602306	1200	10 JUN 14 00:52
VAN1	6	11	0	5353602307	1200	10 JUN 14 00:54
VAN1	9	16	0	5353602308	1200	10 JUN 14 00:55
VAN1	10	16	0	5353602309	1200	10 JUN 14 00:57
VAN1	12	16	0.2	5353602310	1200	10 JUN 14 00:58
VAN1	18	28	3.3	5353602311	1200	10 JUN 14 01:00
VAN1	17	22	3.2	5353602312	1200	10 JUN 14 01:01
VAN1	22	28	6	5353602313	1200	10 JUN 14 01:02
VAN1	14	19	1.9	5353602314	1200	10 JUN 14 01:03

## Job Records

Knowledge is power. Detailed job records, as shown below, help you stay efficient.

- Average and high moisture levels
- Bale weight
- Amount of product used
- Date/time
- GPS coordinate of bale position when equipped with optional 780GPS receiver

## Setup

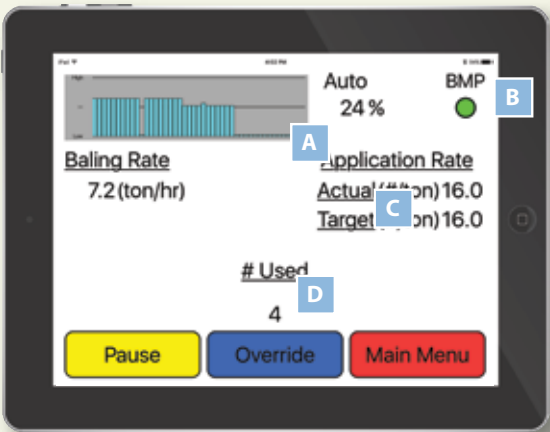
Adjust moisture points or set rate per ton. Weights for balers not equipped with scale can be estimated.

You Run The Show For Round Or Conventional Balers

Automatic applicators provide “in-the-field” office management for your baling operations.

300 and 700 Monitors

- Control the automatic application of preservative
- Allow moisture to be read continuously by sensors, fed to the processor and displayed
- Measure speed of baling, the amount of preservative used and the average moisture of the last bale
- Display moisture as it changes, 200 feet at a time
- Automatically adjust the rate of preservative application every three seconds when in automatic mode. Actual rate of application is read by a flow meter and displayed on the screen as “actual” and compared to the set “target” rate.
- Adjusts for speed of baling on both automatic systems



300 & 700 Monitors Display:

- A. Graph of the last 200 feet of window moisture
- B. Current moisture
- C. Actual and target rate
- D. Preservative used so far

Everyday Electronic Cab Control

For small-scale operations, an electronic control applicator is available on all baler models and sizes. The dial on the control box can be adjusted for correct preservative output. Electronic components in the cab control box hold the application rate constant.

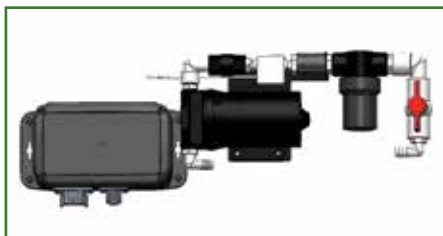
This unit is included for:

- 25 and 55-gallon applicators with electronic control
- 110 and 100-gallon applicators with electronic control for large square balers



COMPARISON OF APPLICATOR CONTROLS			
	Electronic	300 Series Automatic	700 Series Automatic
Single Pump			
Control Box with Adjustable Dial			
Tablet Display			
ISOBUS Display			
Built-in Flowmeter			
Automatic Application			
Moisture Sensing Capability			
Job Record by Field			
Job Records by Individual Bales			
Calculates Baling Rate			
Hay Indicator Compatible			
Optional Stroke Counter on Small Square Baler			
Dye Sprayer Kit Compatible			

## Components of 700 Series Applicator



### 1 Pump Plate

Mounted on preservative tank; includes bypass pump and flow meter



### 5 Spray Shield/Tips

Hay preservative applied at bale pickup on loose windrow as fed into baler.



### 2 Dual Pulsing Solenoids

Accurately controls rate of preservative with a range from 24 lb/hr up to 800 lb/hr



### 6 Dual Star Wheels

Sends low voltage signal to accurately sense moisture at the front of the bale chamber. Built in encoder provides baling rate. Built in encoder provides baling rate.



### 3 Optional Microwave Moisture Sensors

Positioned at back of bale chamber (shown) for artificial moisture applications. Additionally, can be positioned in pre-compression chamber for improved preservative placement in bale



### 7 Optional Hay Indicator (Crop-Eyes) End of Row Shut-Off Sensor

Automatically turns applicator on/off when enter/exiting windrow



### 4 Optional GPS Antenna

Records position of bale and adds it to job record







### Display (not included)

Improved functionality for ease of operation, integrates through the baler virtual terminal

## H2O Precision Moisture Only Sensors

**The most efficient, cost-effective moisture monitor with accurate readings, the new H2O Precision Moisture Sensor from Harvest Tec is the answer.**

The moisture sensor uses the operator's Apple or Android smartphone or tablet as the monitor. The H2O control is mounted in the cab and connects via the charging cable to your device, along with the free H2O App from Harvest Tec.

### Precision Moisture Sensor Features and Benefits

- Displays instantaneous moisture
- Add-on kit is available to provide last bale average moisture (required for fixed chamber round balers)
- Rugged disc plates and star wheels are designed for long-term use with minimal wear
- Simple to use H2O App is free to download from the App Store or Google Play Store
- Only on-baler moisture sensor for round balers to read up to 60% with reliable accuracy

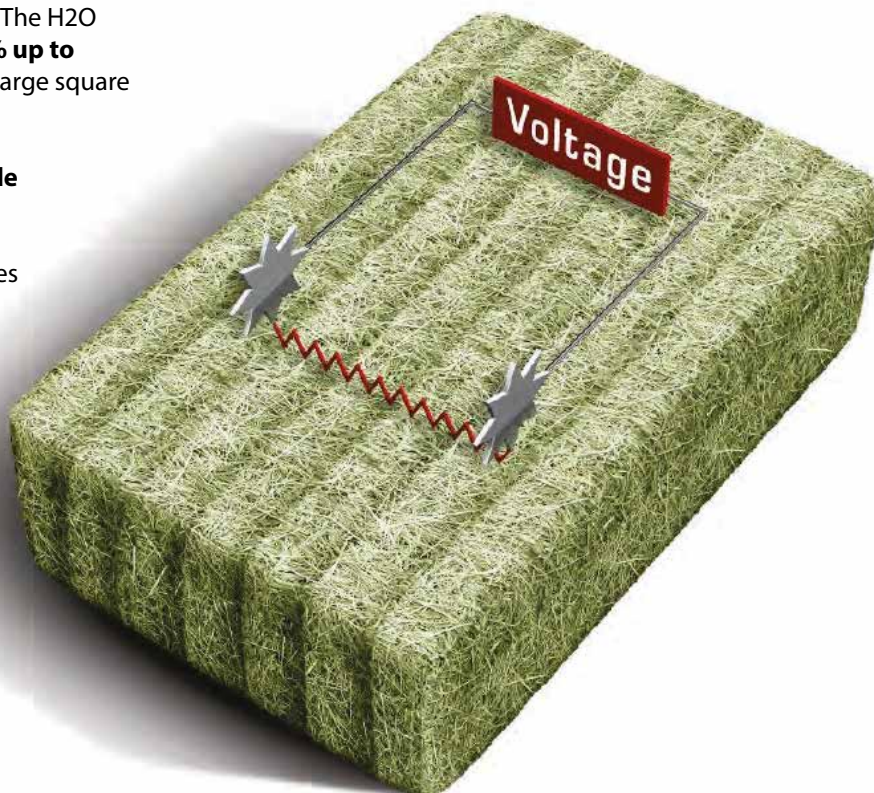


### Small and Large Square Balers

Two star wheels are mounted in the bale chute. The H2O System will **read crop moisture levels from 5% up to 33%** on small square balers and **up to 60%** on large square balers.

### Features Of The New Hardwire Display Include

- Security of a hardwired solution
- Built-in tablet/smartphone charging capabilities
- Cellular data plan not required





## Round Baler

The H2O System includes two sensing discs, one mounted on each side of the baler's sidewalls inside the bale chamber read crop moisture side-to-side from 5% up to 60% for round balers.

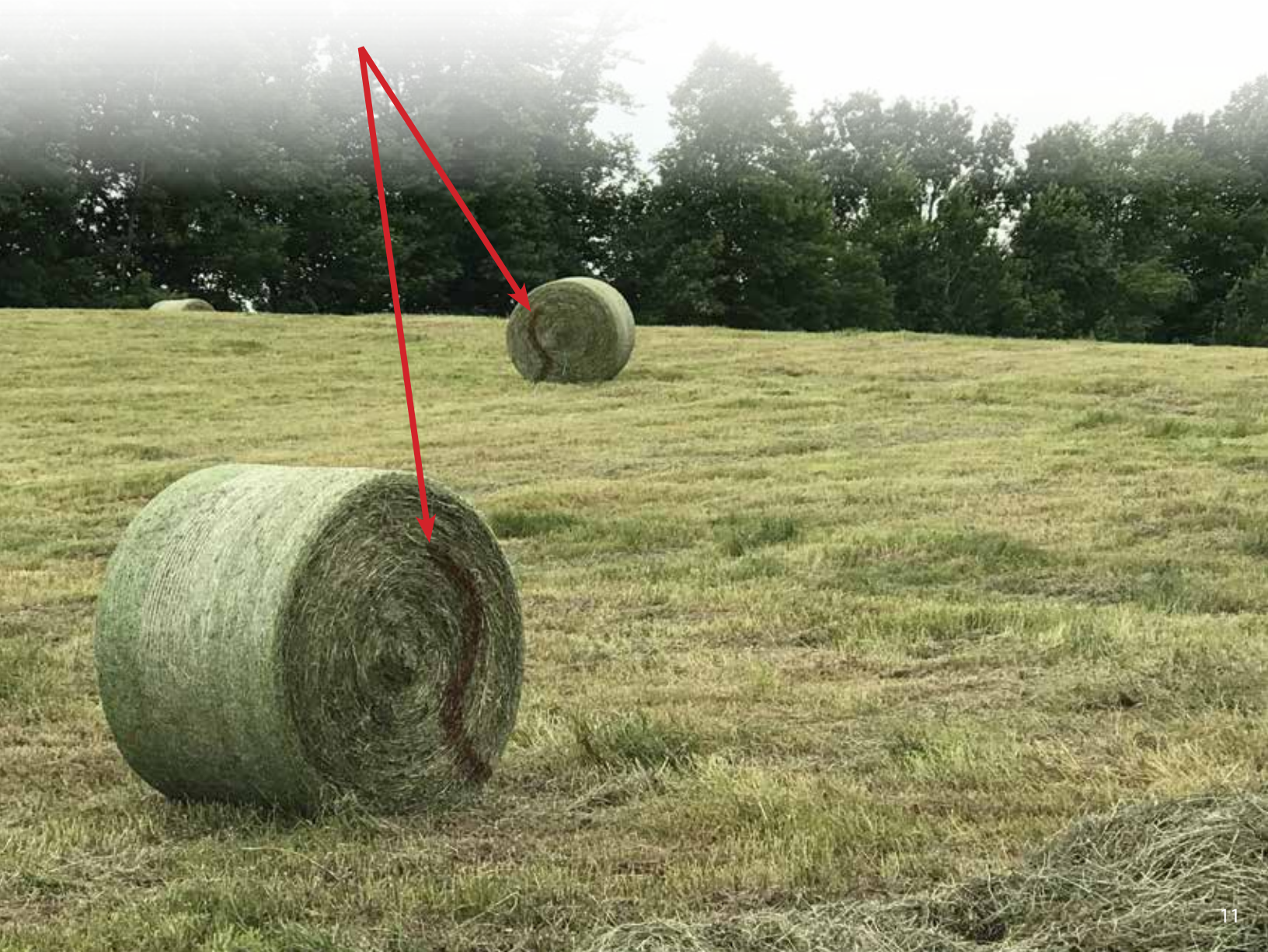
### Features Of The New Hardwire Display Include

- Security of a hardwired solution
- Built-in tablet/smartphone charging capabilities
- Cellular data plan not required



## Optional Dye Marker

With the H2O Dye Marker added to the H2O Moisture Sensor, any bale above a set moisture level is marked with a red, food-grade stripe. The bale is marked as it leaves the chamber, allowing the operator to easily identify those bales that are above their own moisture threshold. Operators can also manually mark bales with the push of a button.







**Safe, Innovative Baling  
At High Moistures**

Maximize the number of acres baled per day with a chemically-buffered form of propionic acid formulated to prevent spoilage of valuable hay crops. Baler's Choice™ hay preservative from Harvest Tec is gentle on your baler with a pH of 6.0 that is as neutral as rainwater, yet it is just as effective as straight propionic acid. And, it works on all types of hay, including alfalfa, grass and other crops susceptible to decay at higher moistures.

**Better Bale Quality**

Hay baled at higher moistures can heat and spoil. Baler's Choice™ hay preservative will treat hay with up to 30% moisture.

HAY MOISTURE	DAMAGE
16% - 22%	Hay discoloration and odor can occur
23% - 26%	Hay temperature can climb to 120° F in storage; mold will begin to form and quality drops significantly
Over 27%	Can result in temperatures over 140°F; hay can turn black and combust

**Calculate the  
Baler's Choice™ Benefits:**

- Greener hay with higher feed value
- No more waiting on the weather. Bale when you're ready at moistures up to 30%.
- Works well on all types of hay.
- Non-corrosive formula won't harm the baling equipment, operators or livestock.
- Store treated hay for years. It will look and feed as fresh as when it was first baled.
- Store product outside. Baler's Choice™ won't freeze or lose effectiveness over time.
- When compared to other preservatives, Baler's Choice™ is smarter:
  - Easier to apply
  - Gives more consistent coverage
  - Won't clog application equipment

**Baler's Choice™ is the only  
hay preservative that is  
endorsed by Harvest Tec.**

**Baler's Choice™ is a trademark  
owned by Harvest Tec**



## Baler's Choice™ Is Available In Four Sizes For Any Size Baling Operation.

BALER'S CHOICE™ HAY PRESERVATIVE CONTAINER SIZES	
Totes	1,800 lbs/200 gal* (818 kg/757 L) 2,380 lbs/270 gal (1,082 kg/1020 L)
Drum	450 lbs/50 gal** (204 kg/189.3 L)
Mini Drum	120 lbs/15 gal** (54 kg/50.5 L)

\* Not available in Canada

\*\* Not available in California

- 200 or 270-gallon tote goes a long way and is preferred by larger square baler operators.
- 50-gallon drum is enough for any size baler and will treat up to 100 tons of hay.
- Easy-to-store 15-gallon drum works well for smaller operations.



## Safe, Cost-Effective and Smart

Bales treated with Baler's Choice™ yield more tonnage, have a higher relative feed value and are safer for all livestock. Propionic acid, the main ingredient in Baler's Choice™, is an organic acid occurring naturally in a horse's gastrointestinal tract. In ruminants, propionic acid is produced by rumen bacteria, so it is beneficial in the digestive process.

## Practical Application

Gentle and effective, the ingredients in Baler's Choice™ will not cause corrosion on your baling equipment. When paired with approved Harvest Tec applicators at the recommended application rate, you can be assured of maximizing your hay baling productivity year after year with Baler's Choice™.

 **Baler's Choice**™

## BALER'S CHOICE™ HAY PRESERVATIVE INGREDIENTS

### Active Ingredient

Propionic Acid	64.5%
Citric Acid	5.0%

### Other Ingredients

Ammonium Hydroxide, Deionized Water, Sorbitol, Green Dyes	30.5%
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**EPA Registration #73877-1-39376** Total 100%

## APPLICATION RATES

### LARGE SQUARE BALES

Hay Moisture	Stem Moisture	Dew Moisture Only
Under 22%	6 lbs/ton	3 lbs/ton
23% - 26%	10 lbs/ton	8 lbs/ton
27% - 30%	DO NOT BALE	16 lbs/ton

### SMALL SQUARE AND LARGE ROUND BALES

Hay Moisture	Stem Moisture	Dew Moisture Only
Under 22%	4 lbs/ton	2 lbs/ton
23% - 26%	8 lbs/ton	6 lbs/ton
27% - 30%	16 lbs/ton	12 lbs/ton

Not recommended on any hay above 30% moisture.

## Accessories

### Make Better Hay With Precision Products

From high-quality products like Baler's Choice™ hay preservative to worry free automatic applicators with moisture sensors, to GPS and Field Mapping, proficient pumping systems and integrated displays, Harvest Tec and Harvest Tec help you work smarter to get the job done.

### Moisture Dye Sprayer Kit

The Dye Sprayer Kit is a simple and effective way to mark wet areas on square bales. Compatible with any 700 series Automatic Applicator on small and large square balers, the three-gallon system is mounted near the bale chamber with the spray tips on the side or top of the bale chamber. Easy to fill and service, one tank of dye mix (part number 009-0800) can last through a full tank of Baler's Choice™ hay preservative and is adjustable from 8% to 72% moisture on small or large square balers.

While working, if the high moisture alarm sounds on the display, the system sprays a food-grade, red-colored dye that visibly marks the exact location of the wet spots within the bale, allowing for a quick and easy reference to better manage bales for feeding, sorting, inventory or storage.



### GPS and Yield Mapping

An additional GPS package for your large square baler is available to take your productivity to the highest level. By incorporating the 780GPS receiver from Harvest Tec into the 700 Series Automatic Applicator, the system will record the coordinates of the exact location the bale was tied off in the field to the job record.

Using this technology, the producer now has the ability to create yield maps for their crops, which will allow them to gain the knowledge needed to maximize productivity and plan for future yields.







### Electric Transfer Pumps

These standard output models will transfer preservative at a rate of four gallons per minute.



### Hand Transfer Pump

Inexpensive, this hand transfer pump is ideal for transferring small amounts of preservative easily.



### Electric Transfer Pump

For a rapid transfer rate of 14 gallons per minute, this pump will get the job done quickly.



### Moisture tester

Hand-probe and pad style moisture tester that digitally measures moisture levels in the bales, windrow and chamber.



### Hay indicator kit

A great addition to your Baler's Choice™ Automatic Crop Preservative System. The kit consists of two eyes that mount on the baler's pickup head. The eye kit senses when crop is passing through and automatically starts and stops preservative application.



### Surface Wrap Light Kit

Load net wrap into the compartment of your John Deere Round Baler at night with convenient compartment lighting. Two low-profile work lights mount inside the compartment and wired into the baler.



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# Harvest Tec

## Let's Grow Together.

Check out our full hay and forage solution lineup  
and more by visiting our website: **HarvestTec.com**



### Harvest Tec Selection Guide

Scan the QR Code to see our full Selection Guide.

We can't wait to find the right hay solution for you!