Three days. That’s all you need to finish planting. Except rain is in the forecast. And now something’s wrong with your equipment. It’s the scenario you hope never occurs on your operation. But if it does, your John Deere dealer is ready to help.

No, he can’t control the weather, but he can keep your planting and seeding equipment (not to mention the tractors that pull them) in top working condition when every hour counts. Whether it’s having the parts you need on hand for minor repairs, or having a well-trained, experienced technician available for more serious problems, your dealer is committed to providing the service you need, when and where you need it.
More than 140 years ago, the first grain drill was sold. Although there have been substantial product improvements since then, the reason for using a drill hasn’t changed: it’s a reliable, effective way of getting seed down into the ground quickly.

Today, no one manufactures a more complete line of drills. Whether you’re drilling row crops, small grains, or grasses, we have a tool to meet your needs.

But with a variety of drills to choose from, how do you pick the right one? You can start by answering the following questions:

1. **What crops are you drilling?**
   - If you want to use a drill for row crops, consider the 1590 No-till Drill. When ordered with the front-rank lock-up option, the 1950’s 7.5- or 10-inch spacing converts to 15- or 20-inch spacing.
   - If small grains or grasses are your intended crops, the 1590 No-till Drill, the 1520 Drill, the BD11 End-wheel Drill, or the 455 Folding Drill are good choices. The 1590 can be equipped with a grass-seed attachment for drilling on 7.5- or 10-inch rows.
   - The other drills can be ordered on 6-, 7.5-, or 10-inch spacing.

2. **What are your residue levels?**
   - Whether you’re working in fields with lots of corn or wheat stubble or just a little, John Deere has a drill for you. That’s because a drill’s residue-handling capabilities largely rest on its opener (see “Different openers, different results” on the next page). As its name indicates, the 1590 No-till Drill has a double-disk opener down-pressure integral Drill. It effectively slices through heavy residue to place seed into an environment favorable to germination and growth, and it provides minimal soil disturbance so that you can remain within accepted no-till parameters, even in narrow row spacings, and still seed effectively in residue-laden fields.

   However, this same opener works equally well in prepared seedbeds. In fields where most or all of the residue has been buried or sized and incorporated by tillage applications, the BD11 and 455 Drills are good choices. Their openers are suited more for mini-till or conventional-till conditions.

   **Drill Openers**

   **MAX. DOWN PRESSURE (lbs.)**

   | 1590 No-till drill | 125 |
   | 455 Dual disk | 100 |
   | 1520 Integral | 45 |

3. **How is important is seed spacing?**
   - If you’re planting soybeans, corn, or even alfalfa, it’s essential to maintain exact depth control for maximum emergence potential. That’s why the John Deere 1590 Drill has a depth-gauging wheel located right where the seed enters the soil. The BD11 Series, when outfitted with double-disk openers, also has a Tru-Vee attachment that gives planter-type depth control.
   - All other drills are available with depth-gauging wheels that trail behind the opener. Most of these wheels are only a good fit in wetter, very soft conditions.

   **Drill Residue-Handling Comparison**

   **9x 7.5x 10x 15x 20x 30x**

   | 1590 Integral Drill | X | X | X | X | — | — |
   | 1530 No-till Drill | X | X | X | — | — | — |
   | BD11 End-wheel Drill | X | X | X | — | — | — |
   | 455 Folding Drill | X | X | X | — | — | — |

4. **How critical is consistent depth control?**
   - If you’re using a double-disk mounted at a 7-degree angle for aggressiveness.
   - Designed to work equally well in no-till and conventional-till fields.
   - Active hydraulic down-pressure provides up to 450 pounds of pressure per opener, or can be set at zero for tilled fields.
   - Features a durable, one-piece seedboot.
   - Available on the 1590 No-till Drill.

   **Offset double-disk opener**

   - Uses 13.5-inch disks offset a quarter-inch for better penetration.
   - Designed for fine-textured seed.
   - Uses a cup meter, which has been relied upon for years to provide consistent depth control.

   **Semi-deep single-disk opener**

   - Uses a 14-inch diameter disk.
   - Builds a higher furrow wall to protect seed.
   - Only available on 455 Series Drill on 7.5- or 10-inch spacing only.

5. **How important is seed spacing?**
   - If you’re planting soybeans, corn, or even alfalfa, it’s essential to maintain exact depth control for maximum emergence potential. That’s why the John Deere 1590 Drill has a depth-gauging wheel located right where the seed enters the soil. The BD11 Series, when outfitted with double-disk openers, also has a Tru-Vee attachment that gives planter-type depth control.
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   **Drill Residue-Handling Comparison**

   **9x 7.5x 10x 15x 20x 30x**

   | 1590 No-till drill | X | X | X | X | — | — |
   | 455 Dual disk | X | X | X | — | — | — |
   | 1520 Integral | — | — | — | — | — | — |

6. **Row Crops**

   **1590 No-till Drill**

   - **Available on** 455 Series Drill on 7.5- or 10-inch spacing only.

   **Semi-deep single-disk opener**

   - Uses a 14-inch diameter disk.
   - Builds a higher furrow wall to protect seed.

   **Double-disk opener**

   - Uses two 13.5-inch disks.
   - Leaves fields relatively smooth.
   - Choice of cast iron or aluminum boots to match soil conditions.

   **Tru-Vee opener**

   - Same opener found on MaxEmerge™ 4P planters.

   **Table of contents**

   - BD11 Series Drills  6-7
   - 1570 Coulters  8-9
   - 1520 Integral Drill  10-11

   **455 Folding Drill**

   - Offers 9 7.5-inch.625 inch to 4 inches.
   - No-till single-disk opener
   - Offers 17 depth settings, ranging from 425 inch to 4 inches.
   - Smoother-cutting gauge wheels prevent rooster-tailing in soft soil.
   - Choice of semi-pneumatic or cast-iron closing wheels.
   - Ideal for both conventional-till and no-till applications.
   - Available as an option on the BD11 Series Drills.

   **455 Folding Drill**

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   - Builds a higher furrow wall to protect seed.

   **455 Folding Drill**

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   - Ideal for both conventional-till and no-till applications.
   - Available as an option on the BD11 Series Drills.
455 Folding Drill

The 455 Folding Drill combines proven drill features with John Deere value.

Big productivity for big acres

For hills and terraces, you get 15 degrees of up-and-down flexibility between each drill section. This keeps the double-disk opener in the ground for consistent seed placement at the depth you set.

The convenient, steel footboard. In-line boxes save you valuable time. Spend less time jockeying bulky augers or going from box to box with the 455 Folding Drill. You can work in a comfortable, efficient work zone.

Big productivity for big acres. A front-fold design allows a 35-foot three-section 455 and 66-ft. (20 m) and 88-ft. (27 m) 455s to be hauled on a 72-ft. (22 m) trailer. A 25-ft. (7.6 m) three-section 455 can be hauled on a 33-ft. (10 m) trailer.

455 Drill Attachments

Depth-gauging press wheels ensure great contact with soil over obstacles and changing terrain.

Accuracy is equally impressive. Offset double-disk openers feature paired active hydraulics for consistent down-pressure. You’ll get the penetration you need for maintaining uniform seeding depth. Choose from 6-, 7.5-, or 10-inch row spacings.

In addition to hydraulic down-pressure, openers feature 15-inches of adjustable, spring-loaded flexibility, allowing each opener to work independently over obstacles and changing terrain.

Depth-gauging press wheels running behind the openers give you an unobstructed combination for depth control. These easy-to-adjust press wheels work with the active hydraulics to keep seed placement at the depth you set.

John Deere opener disks are offset for better penetration and residue blowing, keeping them clear of weeds such as quackgrass. A convenient 3-position handle lets you finely adjust the depth-gauging press wheels in one of 15 settings – as deep as 2.5 inches or half-inch increments.

Patented active hydraulics create consistent down-pressure for a uniform seeding depth. Just dial in the desired down-pressure to keep everything in line with the meter drive clutch disengaged. This option is not recommended for 6-inch spacing.

When drilling landscapes and pivot rows, optional Select-Lift lets you control down-force for each section of openers. Lift or lower down-force for each section of openers to keep the needed down-force over the seed and the no-till effect creates smoother

Select-Lift sensors start you immediately if a tube plugs, eliminating costly stretches of unseeded ground. Seed-tube sensors alert you immediately if a tube plugs, eliminating costly stretches of unseeded ground.

A front-fold design allows all models to be hauled on a 12-ft. trailer. Ground clearance of at least 1.5 feet and a height of just 7 feet (3 feet) allows models to be hauled on a 12-ft. trailer.

Depth-gauging press wheels ensure great contact with soil over obstacles and changing terrain.

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Accuracy is equally impressive. Offset double-disk openers feature paired active hydraulics for consistent down-pressure. You’ll get the penetration you need for maintaining uniform seeding depth. Choose from 6-, 7.5-, or 10-inch row spacings.

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Depth-gauging press wheels running behind the openers give you an unobstructed combination for depth control. These easy-to-adjust press wheels work with the active hydraulics to keep seed placement at the depth you set.

John Deere opener disks are offset for better penetration and residue blowing, keeping them clear of weeds such as quackgrass. A convenient 3-position handle lets you finely adjust the depth-gauging press wheels in one of 15 settings – as deep as 2.5 inches or half-inch increments.

Patented active hydraulics create consistent down-pressure for a uniform seeding depth. Just dial in the desired down-pressure to keep everything in line with the meter drive clutch disengaged. This option is not recommended for 6-inch spacing.

When drilling landscapes and pivot rows, optional Select-Lift lets you control down-force for each section of openers. Lift or lower down-force for each section of openers to keep the needed down-force over the seed and the no-till effect creates smoother
The BD11 Series is available with a variety of options and attachments, so you can spec one out to match your needs.

From no-frills to fancy, the BD11 Series of end-wheel drills can be ordered any way you like. No-frills or fancy, the BD11 Series of end-wheel drills can be ordered any way you like. Need an economical way to get seed in the ground quickly? Pick a basic BD11. But if accuracy is most important, step up to Tru-Vee double-disk openers.

A BD11 Drill is truly at home in well-prepared fields. However, where conditions are a bit more rough, a BD11 Drill provides as much as 124 pounds of down-pressure per opener to slice through tough soils and moderate residue. The result is more accurate, consistent seeding depth.

The BD11 comes in three sizes: 8-, 10- and 13-feet wide. The standard row-spacing is 7.5 inches. For the 10- and 13-feet models, 6-inch spacing is available. Ten-inch spacing is offered on the 13-foot tool. See your John Deere dealer to learn more about the versatile and affordable BD11 Series.

The BD11 Series Attachments

- 1) depth bands – on one or both sides – offer cost effective depth control;
- 2) a single, adjustable depth-gauging wheel attachment is perfect for quick and easy depth adjustment;
- 3) the Tru-Vee attachment gives you planter-type depth control; or
- 4) depth-gauging press wheels accurately gauge furrow depth while providing good seed-to-soil contact. Your options may be limited by opener spacing and seedboot choices. See your local dealer for restrictions.

Depth-gauging press wheels ensure good seed-to-soil contact at a consistent depth.

Grain agitation is recommended on seeding inoculated, residue-laden, very light, or large seed to keep the feeding assembly going. With these conditions, it’s a real advantage.

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For double-disk openers, correct depth-gauging attachments are available. The optional grass seeding attachment provides accurate seeding of grasses, alfalfa, and small grains.

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**A choice of hitch options makes the 1570 instantly compatible with your tractor.**

The hitch tongue is available with either a heavy-duty cast link for hammerstrap drawbars, or a clevis link for straight drawbars.

Want to increase the versatility of your drill? Then invest in this gem: a 15- or 20-foot 1570 Coulter Cart.

Equipped as a coulter cart, the 1570 turns your 1520 Drill into an effective no-till tool.

Parallel linkage on the 1570 transfers weight on-the-go for extra down pressure as field conditions change. The 3-point hitch maintains weight transfer from the tractor to the cart for excellent penetration.

Coulter blades – 8-wave, 13-wave, and 25-wave, as well as ripple or bubble blades – slice residue and prep the seedbed.

One more advantage to the 1570: it can be hooked to an integral planter, too. Talk to your dealer soon for details.

**Seeding into minimum-till fields?**

Attach the 1570 Coulter Cart to your 1520 Drill to carve through residue.

Rugged swivel coulters till a strip in front of each opener… clearing residue, leveling the seedbed, and allowing soil to warm faster.

Maintaining a constant running depth for coulters is easy, thanks to the parallel linkage on the 1570.

Heavy-duty dual toolbars allow coulters to be mounted on either 7.5- or 10-inch spacing – whichever matches your operation.

Hydraulics on the 1570 are made to ensure good penetration.

Two 8-inch hydraulic cylinders apply as much as 900 pounds of down-pressure per coulter, making your 1520 a workhorse even in heavy-residue conditions.

Enjoy hassle-free hook-ups.

A standard 3-point Category 2 and Cat. 3, 3-point hitch lets you couple your 1520, 1530, or 1535 quickly with the coulter cart.

**Five coulter-blade options let you prep seedbeds a lot or a little.**

1) **Bubble**: tills deep; opens a 1-inch furrow.
2) **8-wave**: offers less soil disturbance at higher speeds; suited for sandy, light soils.
3) **13-wave**: tills aggressively at speeds under 6 mph; leaves a 1.25-inch trench.
4) **25-wave**: finely works soil at slow speeds; requires less down-force for good penetration.
5) **Ripple** (not shown): provides a .5-inch slot.

**Coulter Cart Specifications**

<table>
<thead>
<tr>
<th>Width</th>
<th>Row Spacing</th>
<th>Mainframe Size</th>
<th>Hitch Type</th>
<th>Weight</th>
<th>Length</th>
<th>Toolbar</th>
<th>Tires</th>
<th>Drill Hook-up</th>
<th>Hydraulic Cylinders</th>
<th>Coulters</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 or 20 ft.</td>
<td>7.5 or 10 in.</td>
<td>7x7 in.</td>
<td>Hammerstrap or clevis-type</td>
<td>4,032 lb. (1829 kg)</td>
<td>14 ft. 10.5 in.</td>
<td>Dual 5x5-in. (13x13 cm) steel-tubing toolbar</td>
<td>Four 11Lx15, 8 PR</td>
<td>Cat. 2 and Cat. 3, 3-point hitch</td>
<td>Two 3.75x20 in. (95x508 mm) on 15-ft. model; two 4x20 in. (101x508 mm) on 20-ft. model; transport locks included</td>
<td>Bubble, ripple, 8, 13, or 25 wave</td>
</tr>
</tbody>
</table>
Want a dependable drill to seed grass on your CRP ground, or maybe corn or legumes elsewhere? The 1520 Integral Drill features John Deere double-disk openers that place your seed accurately. Opener blades are offset a quarter-inch for better penetration. A narrow, 10-degree angle between blades means a lower pinch point and more consistent seed trenches.

Depth-gauging press wheels firm seed into the furrow for excellent seed-to-soil contact. With one handle, you can select from 12 seed-depth positions. Another plus is big seed boxes. Large grain boxes provide greater seed capacity for fewer refill stops. The 15- and 20-foot models hold 40 bushels, and the 20-foot model holds 42 bushels, and the 20-foot model holds 40 bushels.

Need to work in residue? Just check out this accurate, reliable drill. John Deere dealer to get a closer look at this easy-handling mobility.

The 1520 delivers easy-handling mobility. A close coupled integral design minimizes a light turning radius for greater maneuverability and quicker turn-arounds in the field. These point-leveling gauges give you excellent transport capability from field to field, and on the road. Bigger, longer blades with a Category 2, 3, or 3W hitch, with or without Quick-Coupler.

The 1520’s advantages

Choose a grass seeding attachment for accurate metering of grasses, clovers, small grains, and all crops such as canola. This addition is excellent for set-aside ground and waterways.

When comparing integral drills, start with what’s important — the openers. The discs on John Deere double-disk openers are offset for better penetration and residue slicing. Plus, you can quickly adjust the depth-gauging press wheels in 12 settings in quarter-inch increments, ranging finer, 25-inch to 2.5-inch deep.

Get accuracy, reliability, and pick-up-and-go convenience

Get accuracy, reliability, and pick-up-and-go convenience
The 1590 No-till Drill combines the best features of both its predecessors – the 750 and the 1560 No-till Drills – into one dynamic design. With up to 425 pounds of down pressure and 7-degree angle, the 1590’s openers can cut through the toughest residue or thickest soils. Residue flows smoothly and easily, thanks to plenty of clearance between the blade, seed tube, and arm, while the unique seedboot design improves accuracy and durability.

And for accurate, consistent planting rates, the 1590 uses a right-wheel drive meter (center-wheel drive on the 20-foot model) that’s hinged at the frame, so it stays in contact with the ground for constant power to the meter drive. The 1590 No-till Drill is offered in 10-, 15- and 20-foot sizes, with plain grain and fertilizer-grain configurations to accommodate a variety of cropping systems.

Changing seed populations on-the-go from the tractor is easy with Electronic Population Rate Control. This standard feature works with seed sensors and either a ComputerTrak™ or SeedStar™ monitor for hassle-free rate adjustments.

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Exclusive active hydraulic down-pressure lets you maintain up to 450 pounds of down pressure, no matter the terrain or field conditions. Reduce down pressure to as little as zero pounds for conventional seeding.

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Exclusive active hydraulic down-pressure lets you maintain up to 450 pounds of down pressure, no matter the terrain or field conditions. Reduce down pressure to as little as zero pounds for conventional seeding.
No-till, conventional-till, and min-till. If you’re in the type of producer who uses whatever tillage approach the soil demands, then you have a couple of options: 1) buy multiple seeding tools to span the range of your cropping practices, or 2) get a 1590 No-till Drill.

Sure, it’s a bold statement, but we make it with confidence: the opener on the 1590 No-till Drill is really made to work in every type of tillage situation.

Certainly, the single-disk design works exceedingly well in heavy residue. The 18-inch disk blades are mounted at a 7-degree angle for aggressive action in high-residue fields. Up to 450 pounds of down-pressure provides consistent down-force in rough fields. Once your no-till fields are done, you can take the 1590 right into well-prepped seedbeds. Just set the hydraulic pressure at zero and the opener will float up and down two inches. So spend your money wisely – on a single tool that works well in just about any field condition. Talk to your dealer today about the versatile 1590 No-till Drill.

Conventional-till

No-till

1590 No-till Drill: Dynamic capabilities

Location is everything, especially when it comes to seedboot placement. The seedboots on the 1590’s openers are situated at the centerline of the furrow. What this means is that seeds are deposited right where they should be to germinate – at the bottom of the furrow – not on top of the ground. The bonus advantage to this alignment is that you can get better depth control and last much longer without seeding lift.

A one-piece seedboot is made of cast iron for heavy-duty. It’s set at a 7-degree horizontal angle. The seedboots on the 1590 are cast in stainless steel for up to 3 times the life span. The consistent depth control the 1590 delivers is a 1x12-inch cast wheel at 20-degree vertical angle, 1x10-inch rubber wheels, adjustable down-pressure from 5-45 pounds (2.3-21 kg), and 4.5x16-inch semi-pneumatic wheels, adjustable .25-3.5 inches (0-9 cm) in .25-inch increments. The seedboots on the 1590’s single-disk type of tillage situation. Certainly, the single-disk design works exceedingly well in heavy residue. The 18-inch disk blades are mounted at a 7-degree angle for aggressive action in high-residue fields. Up to 450 pounds of down-pressure provides consistent down-force in rough fields. Once your no-till fields are done, you can take the 1590 right into well-prepped seedbeds. Just set the hydraulic pressure at zero and the opener will float up and down two inches. So spend your money wisely – on a single tool that works well in just about any field condition. Talk to your dealer today about the versatile 1590 No-till Drill.

The consistent depth control the 1590 delivers is accomplished with a 1x12-inch cast wheel at 20-degree vertical angle. rubber wheels, adjustable down-pressure from 5-45 pounds (2.3-21 kg), and 4.5x16-inch semi-pneumatic wheels, adjustable .25-3.5 inches (0-9 cm) in .25-inch increments. The seedboots on the 1590’s single-disk type of tillage situation. Certainly, the single-disk design works exceedingly well in heavy residue. The 18-inch disk blades are mounted at a 7-degree angle for aggressive action in high-residue fields. Up to 450 pounds of down-pressure provides consistent down-force in rough fields. Once your no-till fields are done, you can take the 1590 right into well-prepped seedbeds. Just set the hydraulic pressure at zero and the opener will float up and down two inches. So spend your money wisely – on a single tool that works well in just about any field condition. Talk to your dealer today about the versatile 1590 No-till Drill.

To seed germination, a 3/4-inch press wheel dis- tends into the seedboot of the furrow. The wheel is made of rubber to resist picking up seeds. Plus, adjusting down-pressure from 0 to 45 pounds is easy – no tools are needed.

Depth closing the furrow is essential. A 3/4-inch closing wheel trails behind the press wheel. The closing wheel can be adjusted to run an inch below the press wheel or to the side. Two different settings let you add 0 to 45 pounds of down-pressure.