

Earthfort Provide/Revive/Fish Application Instructions for a Basic Hayfield

The first generic application will be 1 gal of Provide, 1 lb of Revive, and 1 gal of Fish per acre. Ideally you can test to fine tune these amounts via testing. Apply in the cool of the evening and hopefully right before you do a fast lap of the pivot. This is all in a perfect world, but aim high.

We recommend a half rate per acre after each cutting. Moisture is biology's friend. Higher gallons per acre of water as a carrier, after a rainstorm, evening application, fast run on pivot afterwards, etc.

We recommend not applying Provide/Revive/Fish the first time you turn your sprinkler system on in the spring. Often the silt from runoff can clog your irrigation first thing in the spring, not the products.

To start, we always recommend taking the filters out. To calibrate the sprayer, you need the right nozzles. The sprayer shouldn't plug if you have 40 mesh (400 microns) or larger nozzles. Equipment screens should always be taken out.

We have had good success with the TeeJet brass 8002 nozzles, not the plastic ones. If you use the 8002 yellow plastic ones, which are taller than the brass ones, they will plug.

Thoroughly stir the Provide between each use. You don't want to contaminate the Provide with the stir stick in the tote. The shelf life goes away if you contaminate the Provide with a food source and activate it. So do the Provide first and then pour that into the tank with your water. Then use a bucket to vigorously stir up the appropriate amount of powder Revive into a slurry (allow room to top off water at the end). It may take several bucket dumps depending on the size of your tank and how you end up calibrating. Make sure to stir or bubble the Fish as well as it settles like paint.

It is very important to make sure that your spray equipment is clean of pesticides and other product residues. Simple Green is an easy way to clean a dirty tank. Before adding the Provide make sure there is some water in the tank. We recommend constantly agitating the mixture to ensure the inoculant is uniformly distributed in the tank.

To calibrate your sprayer see the guide below from *Gary Bates, Professor and Director of the University of Texas Forage and Beef Center, and Neil Rhodes, Professor in the department of plant sciences at the University of Texas.*

After you do this once and get the kinks out, it is not that hard!

Please let us know if you have any issues.

Calibration Guide

BOOM SPRAYER

1. Select a course length based on nozzle spacing (from chart below).

Nozzle spacing (in)	20	22	24	26	28	30	32	34	36	38
Course length (ft)	204	185	170	157	146	136	127	120	113	107

2. Measure out course in field to be sprayed.
3. Measure time (in seconds) to drive course. Use a comfortable gear and speed. Take the average of three trips. Make note of engine speed (rpm).
4. Park tractor with engine running at same rpm and catch the output from one nozzle for the time found in Step 3.
5. Measure output from one nozzle in ounces. This measurement will tell you the sprayer output in gallons per acre.
6. Determine acres that can be covered with one tank. This will be tank volume (gallons) divided by sprayer output (gallons from Step 5).
7. Multiply acres from Step 6 by recommended application rate. This result will give the amount of product to add to the full tank.
 - a. The recommended application rate will depend on your plan of action or your soil test result. Feel free to consult RLS if you have any questions.

BOOMLESS SPRAYER

1. Select a course length based on spray swath width (from chart below).

Spray width (feet)	30	32	34	36	38	40	42	44
Course length (feet)	182	171	161	152	144	137	130	124

2. Measure out course in field to be sprayed.
3. Measure time (in seconds) to drive course. Use a comfortable gear and speed. Take the average of three trips. Make note of engine speed (rpm).
4. Park tractor with engine running at same rpm, put garbage bag around nozzle and catch the output for the time found in step 3.
5. Measure in pints. This measurement will equal sprayer output in gallons per acre.
6. Determine acres that can be covered with one tank. This will be tank volume (gallons) divided by sprayer output (gallons from Step 5).

7. Multiply acres from Step 6 by recommended application rate. This result will give the amount of product to add to the full tank.
 - a. The recommended application rate will depend on your plan of action or your soil test result. Feel free to consult RLS if you have any questions.