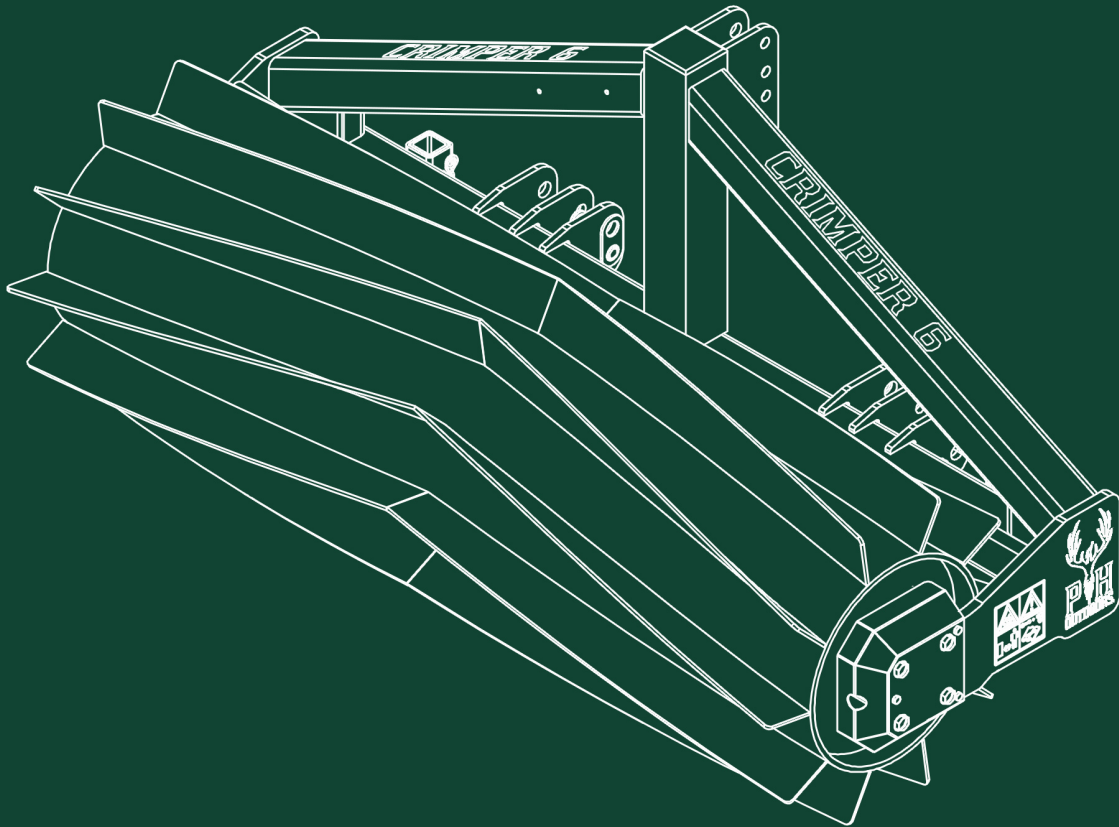


**PH**  **OUTDOORS**™

# CRIMPER 6/8/10

## User Manual & Parts Book



\*Illustrations may include optional items that are not included in standard package

**PH Outdoors, LLC**

P.O. Box 480  
Eureka, MO 63025

**Manual & Parts Book**

**Rev. 1**

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## FOREWORD



Congratulations on your crimper roller purchase. For safe and long-lasting operation of this machine, it is necessary to read and to understand this user manual. It is impossible to work safely with this machine without complete knowledge of the content of the user manual.

This machine does not operate independently. It is the user's responsibility to use the correct tractor or other towing vehicle. The user should check the combination of the towing vehicle and the machine with regard to various aspects, such as noise level and safety risks. In addition, the user should comply with the user instructions of the vehicle and spare parts that are used.

All information and technical specifications provided at the moment that this document is published are the most recent ones. Design specifications may be changed without prior notice.

You can contact your sales point or dealer if you have questions and/or if there are ambiguities in this manual or about the machine concerned.

### LIMITED WARRANTY CONDITIONS

AT THE TIME OF DELIVERY THIS MACHINE IS GUARANTEED AGAINST MATERIAL DEFECTS. THIS WARRANTY IS VALID FOR A PERIOD OF 12 MONTHS FROM THE PURCHASE DATE. THIS WARRANTY COVERS PARTS AND LABOR ONLY. TRANSPORTATION IS NOT INCLUDED. ITEMS NOT COVERED INCLUDE NORMAL WEAR, MISUSE OR NEGLIGENCE, SHIPPING DAMAGES, FAILURE TO DRAIN ROLLER, OR LACK OF PROPER MAINTENANCE. ANY PRODUCTS USED FOR RENTAL OR COMMERCIAL PURPOSES ARE LIMITED TO A 90 DAY WARRANTY PERIOD.

### REGISTRATION CARD

For your own information, fill in the table below:



Mail to:

PH Outdoors, LLC  
P.O. Box 480  
Eureka, MO 63025

Customer name & address	
Dealer name & location	
Model Number	
Serial Number	
Date of purchase	



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OUTDOORS™

## 1. SAFETY INSTRUCTIONS

This machine is designed for safe use. This can only be achieved if you completely follow the safety instructions described in this manual.

Read and understand the manual before you start using this machine.

If the machine is not used as described in this manual, this can result in injuries and/or damage to the machine.

This user manual lists instructions that are numbered in sequence. You should follow this sequence.

A  is an indication of a safety instruction. A  means a tip and/or note.

### 1.1. Obligations of the user

The machine is solely intended for terminating cover crops. Any other use is improper. The manufacturer will not accept any liability for damage resulting from improper use.

All risks occurring with this are entirely at the expense of the user.

All persons assigned to operate, maintain and repair the machine by the owner must completely read and understand the operation manual and in particular the chapter of Safety Instructions.

Modifications to the machine that have a negative impact on the safety must be rectified immediately.

The user is obligated to check the machine for visible damage and defects before using the machine.

For safety reasons it is not permitted to make changes or adjustments to the machine (except those approved by the manufacturer). If modifications to the machine have been made, then all manufacturer warranties are considered immediately void.

Following the use, maintenance and repair instructions prescribed by the manufacturer is also considered proper use of this machine.

The user is responsible for the safe combination of the machine and the towing vehicle, which comply with the requirements as described in the Technical Data (**see Chapter 2**). This entire combination should be tested for noise, safety, risk and user friendliness. User instructions should also be drafted.

Dress appropriately during work activities with the machine. Wear sturdy shoes with protective toecaps, long trousers and long sleeved shirts. Do not wear loose clothing.

The general applicable health & safety regulations must also be followed in addition to the instructions in this user manual.

Relevant traffic regulations also apply in case of using public roads.



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## 1.2. Maintenance, repairs and adjustments

Keep a record of the repair activities.

When unskilled people use, maintain or repair the machine, this could result in injuries to the user and to third parties. This should be avoided!

Use only original parts from PH Outdoors for maintenance or repairs because of the safety of the machine and of the user.

Only authorized technical personnel may carry out repairs to the machine.

When carrying out maintenance, adjustments and repairs, it is necessary to block the machine in order to prevent it from sinking away, driving off and/or sliding off.

If a hydraulic installation is present, you should always make it pressure-free before working on this installation.

Used oil/grease is harmful to the environment. Dispose of these substances according to the regulations that apply in your location.

## 1.3. Using the machine

Attach the machine to the towing vehicle according to the instructions. Please pay close attention to the risk of injury!

Never use the machine in the absence of protective guards and safety stickers.

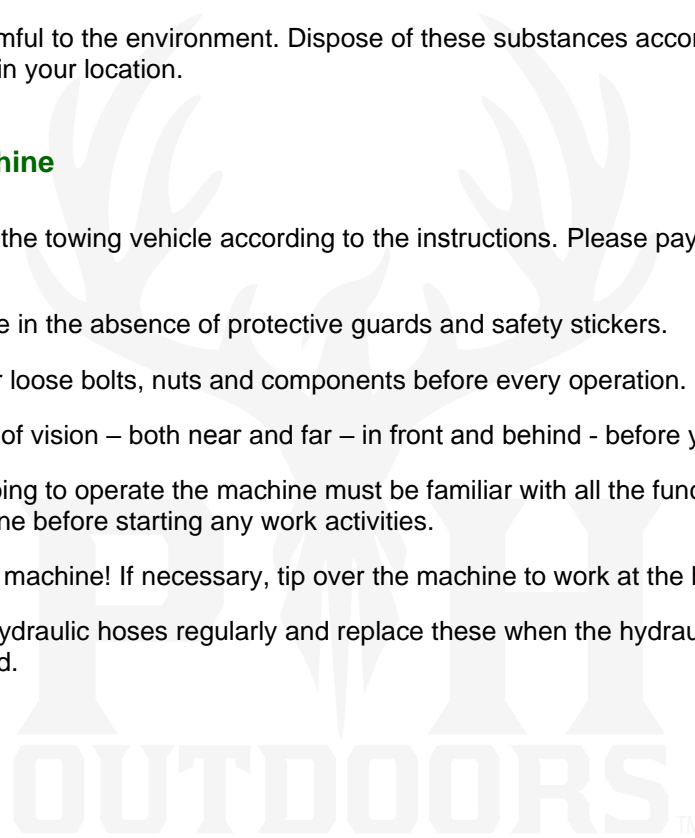
Check the machine for loose bolts, nuts and components before every operation.

Check for a clear field of vision – both near and far – in front and behind - before you start moving.

All persons that are going to operate the machine must be familiar with all the functions and control elements of the machine before starting any work activities.

Never crawl under the machine! If necessary, tip over the machine to work at the bottom side.

If present, check the hydraulic hoses regularly and replace these when the hydraulic hoses are damaged or appear old.



## 2. TECHNICAL DATA

Type	Crimper 6	Crimper 8	Crimper 10
Weight	1145 lbs	1450 lbs	1750 lbs
Approximate weight drum filled with water.	1650 lbs	2025 lbs	2540 lbs
Dimensions (L x W x H)	35.5"x76.25"x35.44"	35.5"x100.25"x35.44"	35.5"x124.25"x35.44"
Working width	72" (6 ft.)	96" (8 ft.)	120" (10ft.)
Speed	Adjust to conditions	Adjust to conditions	Adjust to conditions
Recommended tractor recommendation empty	30 HP with minimal lift capacity 24" behind the lift eyes of 1200 lbs	40 HP with minimal lift capacity 24" behind the lift eyes of 1500 lbs	50 HP with minimal lift capacity 24" behind the lift eyes of 1800 lbs
Three-point system	Cat. 1-2	Cat. 1-2	Cat. 1-2
Quick hitch connection	Yes	Yes	Yes

## 3. GENERAL DESCRIPTION

The crimper roller is a machine for crimping cover crops flattening in planted areas.

## 4. SAFETY STICKERS

Safety stickers are located on both sides of the machine. These safety stickers must always be clearly visible and legible and must be replaced if they have become damaged.

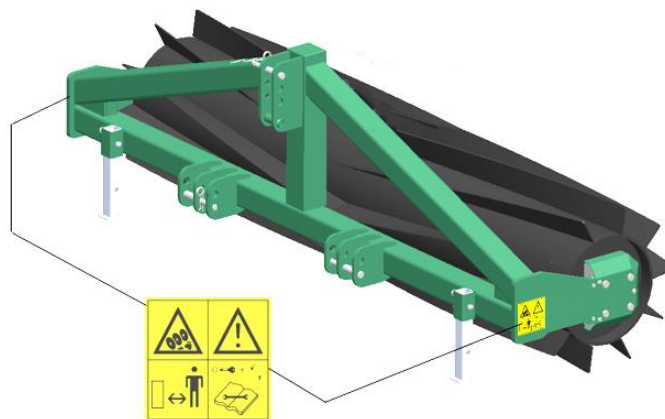




Fig. 1

	<ul style="list-style-type: none"> <li>- In case of maintenance, adjustments and repair, always switch OFF the engine of the towing vehicle.</li> <li>- During operation, make sure there are no persons in the danger area of the machine to prevent them to get injured by moving parts</li> <li>- Keep a distance of minimum 10 feet if the machine is operating (except the operator).</li> </ul>
	<ul style="list-style-type: none"> <li>- Prior to using the machine, the operators of the machine must read the user manual carefully.</li> </ul>

## 5. FIRST INSTALLATION

To remove the pallet and to place the machine horizontally on the ground, take the following steps (see Fig. 2):

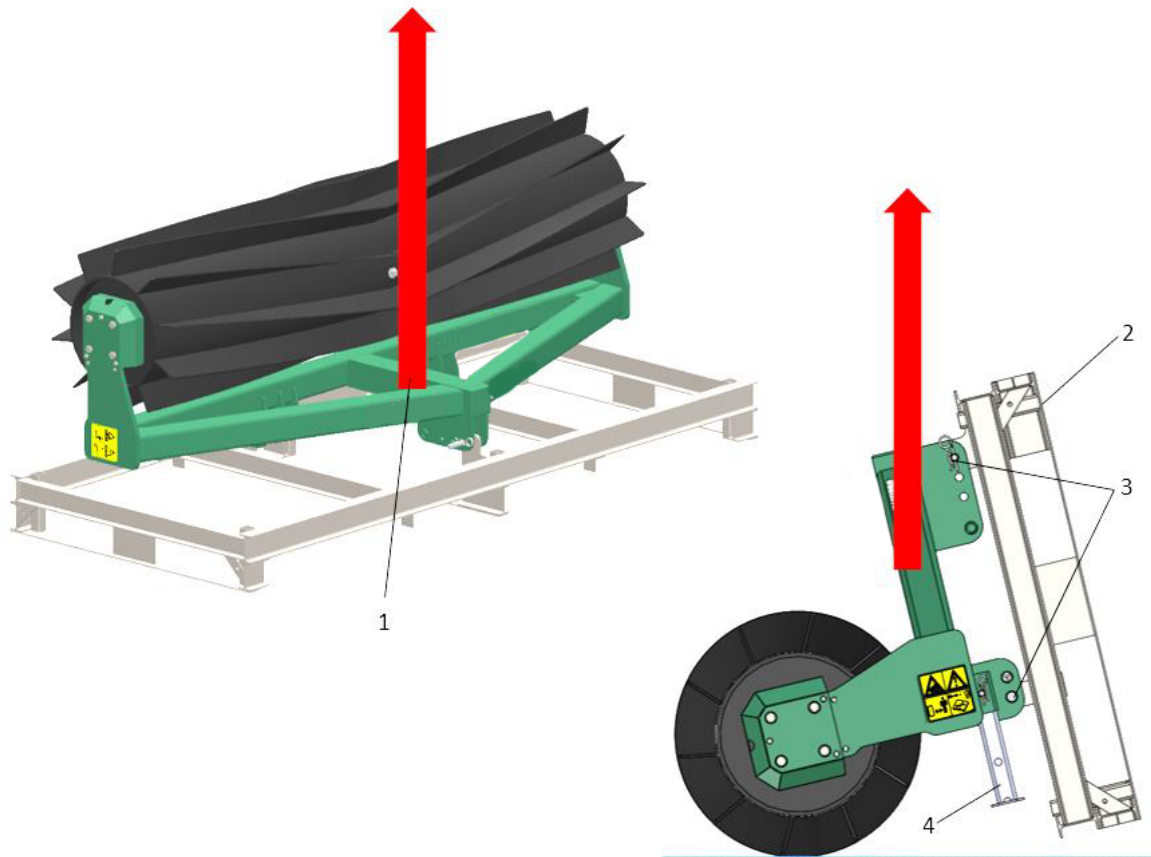


Fig. 2



**Make sure that the cable/crane/lift can hoist minimal:**

**Crimper 6: 1800 lbs**

**Crimper 8: 2000 lbs**

**Crimper 10: 2500 lbs**

1. Attach a hoisting cable on the center beam of the machine (1).
2. Lift the machine slowly in controlled way, it will turn during lifting.



**!! KEEP A SAFE DISTANCE. THE MACHINE MAY START TO SLIDE DURING HOISTING !!**

3. Place the machine on its drum on the ground.
4. Support the pallet (2) safely and remove the pallet by removing the 3-point pins (3).
5. Lower the machine on its stand legs (4) and drum and remove the hoisting cable



**!! KEEP A SAFE DISTANCE. THE MACHINE MAY START TO SLIDE DURING HOISTING !!**



**!! NEVER CRAWL UNDER THE MACHINE !!**



## 6. ATTACHING AND DETACHING THE MACHINE

Attaching and detaching the machine has to be done carefully. Follow the instructions below:

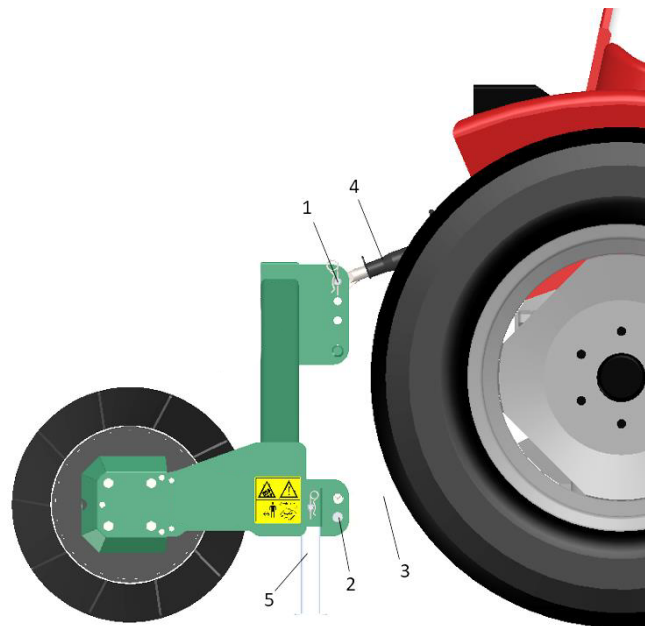


Fig. 3

### 6.1. Attaching the machine

Prior to attaching the machine, check the following points:

- Check whether the machine is undamaged and whether it is safe to attach and use the machine.
- Check whether the bolts and nuts are tightened with the correct torque.
- Check whether all safety decals are on the machine and whether these are undamaged and easily readable. Never use the machine if it has damaged or unreadable decals.

The machine should be attached to the tractor in the following manner:

1. Remove the 3-point pins (**1 and 2**) from the machine (**see Fig. 3**).
  2. Carefully drive the tractor backwards until the lifting arms (**3**) can be attached to the machine.
- !! Make sure that the tractor and the machine cannot move while you are attaching them !!**
- !! Switch off the tractor engine before attaching the machine !!**
3. Attach the lifting arms (**3**) to the machine using the 3-point pins (**2**). Lock the pins using the r-clips.
  4. Set the stabilizer to a sideways stroke of 4 inches.
  5. Mount the top link (**4**) of your tractor and extend it until it is at the same height as the top 3-point hitch (**1**) of the machine
- 6. Adjust the top rod in such a manner that the machine is horizontal.**
- !! Make sure that the 3-point pins are locked using the r-clips !!**
7. Start the tractor and lift the machine off the ground.
  8. Slide the stand legs (**5**) upwards and lock with the pins and R-clips.

## 6.2. Detaching the machine

The machine should be detached in the following manner (see Fig. 3):

1. Place the tractor and the machine on a flat surface.
  - !! Make sure that the tractor and the machine cannot move while you are detaching the machine !!**
  - !! Switch off the tractor engine before detaching the machine !!**
2. Slide the stand legs **(5)** downwards and lock with the pins and r-clips
3. Carefully place the machine on the ground.
4. Detach the top link **(4)** and remove it.
5. Detach the lifting arms **(3)**.
6. Start the tractor and drive off.

## 7. TRANSPORT

The user is responsible for transporting the machine on public roads. Verify the national legislation regarding the regulations. In view of the machine's weight, it is not advised to drive faster than 20 km/h (12.4 mph) with a raised machine. Higher speeds can lead to hazardous situations and result in damage to the machine and tractor.

- When the machine is raised off the ground, the front axle of the tractor has to support minimum 20% of its weight.**

## 8. PUTTING THE MACHINE INTO OPERATION

### 8.1. Safety

Before using the machine, you should check the following:

1. Are there slopes? The maximum safe slope is 20 degrees for this machine. Always go from top to bottom.
2. Are there hard objects in the ground? If so, adjust speed to ground conditions (slow down).
3. Is there danger of sinking/sliding away? If so, postpone use.
4. If the soil is frozen or very wet, postpone the activities until conditions improve.

### 8.2. Working speed

The maximum safe working speed of the machine is approx. 7.5 mph. However, the user should adjust the speed to achieve the required result per individual situation and soil conditions. Doing things as fast as possible does not always equal the best results.

### 8.3. Filling the drum with water

If it is desired to use more weight it is possible to fill the drum with water. There is a filling plug placed on the side of the drum to fill with water.



**Drain the drum before it starts to freeze. The drum could be damaged if it is not drained.**

## 9. MAINTENANCE

Time schedule	Check point	Work activities
Before <b>each</b> use	Check for loose bolts/nuts.	Tighten the loose bolts/nuts with the correct torque.
	Presence and legibility of safety decals (see Chapter 4)	Replace if damaged or missing.
After <b>each</b> use	Clean the machine	See chapter 9.1
After <b>first</b> 20 operating hours (new or repaired)	Grease the bearings	Use EP 2 lubricating grease.
	Check for loose bolts/nuts.	Tighten the loose bolts/nuts with the correct torque.
After <b>every</b> 100 operating hours.	Grease the bearings	Use EP 2 lubricating grease.
	Check for loose bolts/nuts.	Tighten the loose bolts/nuts with the correct torque.

### 9.1. Cleaning

Remove tangled crop from the drum and nearby the bearings on the side.

If a high-pressure cleaner is used to clean the machine, then observe the following rules:

- Do not use aggressive cleaning agents that can affect the machine.
- Maximum water pressure: 1015 PSI
- Maximum water temperature: 122°F
- Do not aim the jet of the high-pressure nozzle directly at the bearings, oil seals, lubrication points and stickers.
- Keep a minimum distance of 1.5 ft between the head of the high-pressure cleaner and the surface you want to clean.



**Grease the bearings after cleaning the machine.**

### 9.2. Grease points

To guarantee the proper functioning of the crimper roller, the lubrication points (**1 and 2**) at both sides of the machine (see Fig. 5 ) must be greased periodically. Grease these points according to the table in Chapter 9.

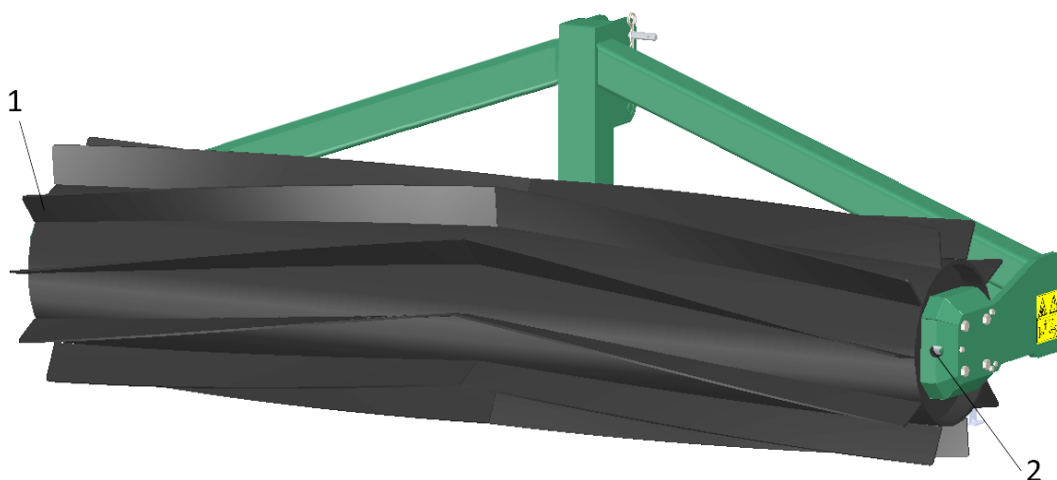


Fig. 5

## 10. TROUBLE SHOOTING (PROBLEM ANALYSIS)

<b>Problem</b>	<b>Possible cause</b>	<b>Solution</b>
The drum doesn't rotate	Crop is tangled between the drum and bearing.	Remove the tangled crop.
	The drum bearings are seized.	Grease and try to get the bearings running again, if not possible replace.
The tractor does not have sufficient traction.	Soil is too wet.	Postpone the operation.
The cover crop is not completely flattened	The total weight of the machine is too low.	Fill the drum with water. See Chapter 8.3
Cover crop is not terminated	Timing is not right or cover crop is not ideal for crimping	Try a second pass at the ideal time or plant a different cover crop



