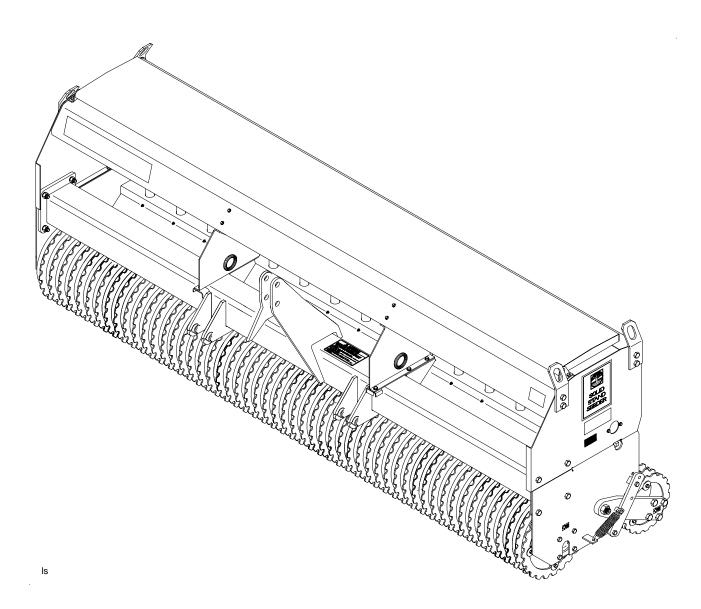
# **Primary Seeder**







#### 313-156M Operator's Manual



Read the Operator's manual entirely. When you see this symbol, the subsequent instructions and warnings are serious - follow without exception. Your life and the lives of others depend on it!

© Copyright 2003 Printed 8/21/06

Cover photo may show optional equipment not supplied with standard unit.

# Land Pride

Important Safety Information1
Introduction7
Section 1: Assembly and Set-up8
Sling Brackets
Three-Point Primary Seeder
Pull-Type Primary Seeder9
Pull-Type Primary Seeder with End Wheels9
Pull-Type Primary Seeder with Front Wheels11
Section 2: Operating Instructions13
General Description
Operating Check List
Tractor Requirements13
Front Wheel Pull-Type
Tractor 3-Point Hook-Up13
Tractor Drawbar Hook-Up14
Pull-Type and End Wheel Units
Front Wheel Units
Tractor Hydraulic Hook-Up15
Bleeding Hydraulic System
Operating Hydraulic Lift System
Transporting
Pull-Type, Front, or End Wheel Seeders 15
Parking
Pull-Type, Front or End Wheel Seeders 16
Seed Level Indicator
Agitator Attachment (Optional)
General Operating Instructions
Section 3: Adjustments
Drive System
Roller Packing Wheels
Seed Broadcasting System
Seed Rate Speed Change
15 Bushel Speed Change
30 Bushel Speed Change
Calibrating & Adjusting Seeding Rate
Seed Rate Charts for Ag Drive
Brome Grass Seed Rate Chart23
Metric Seed Rate Charts for Ag Drive
Metric Brome Seed Rate Chart
Seed Rate Charts for Turf Drive
Metric Seed Rate Charts for Turf Drive

Small Grass Seeds Attachment (Optional)	
Seed Rate Speed Change	
Calibrating & Adjusting Seeding Rate	
Small Grass Seeds Attachment Seed Rates .	
Small Grass Seeds Attachment Metric Seed Ra 35	
Agitator Attachment (Optional)	. 37
Engaging & Disengaging the Agitator Sprocke	
Calibrating and Adjusting Seed Rate	.37
Coil Tines (Optional)	.37
Height Adjustment	. 37
Danish Tines (Optional)	. 37
Height Adjustment	. 37
Walkboard (Optional)	. 38
Adjustment w/ Small Grass Seeds Attach	. 38
Adjustment w/o Small Grass Seeds Attach	.38
Section 4: Maintenance and Lubrication	39
Maintenance	. 39
Storage	. 39
Lubrication	. 39
Roller Chains	. 39
Wheel Arm Pivot Shafts	.40
Wheel Bearings	. 40
Front and Rear Roller Bearings	.40
Feeder Cup Drive Sprocket	
Drive Sprocket Hanger Bearing (Small Grass Seeds Attachment)	.41
Feeder Cup Drive Sprocket	
(Small Grass Seeds Attachment)	.41
Agitator Lockout (Agitator Attachment)	.41
Section 5: Options	.42
Small Seeds Attachment 313-113A	.42
Agitator Attachment 313-079A	
Coil Tine Track Removers 313-078A	.42
Danish Tine Track Removers 313-077A	
Walkboard 313-130A	
Section 6: Specifications & Capacities .	.44
Section 7: Features & Benefits	.46
Section 8: Troubleshooting	.47
Section 9: Appendix	
Torque Values Chart	
Tire Inflation Chart	.48
Warranty	. 49

© Copyright 2006 All rights Reserved

Land Pride provides this publication "as is" without warranty of any kind, either expressed or implied. While every precaution has been taken in the preparation of this manual, Land Pride assumes no responsibility for errors or omissions. Neither is any liability assumed for damages resulting from the use of the information contained herein. Land Pride reserves the right to revise and improve its products as it sees fit. This publication describes the state of this product at the time of its publication, and may not reflect the product in the future.

Land Pride is a registered trademark.

All other brands and product names are trademarks or registered trademarks of their respective holders.

Printed in the United States of America.



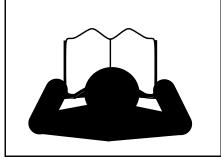
These are common practices that may or may not be applicable to the products described in this manual.

#### Safety at All Times

Thoroughly read and understand the instructions given in this manual before operation. Refer to the "Safety Label" section, read all instructions noted on them.

Do not allow anyone to operate this equipment who has not fully read and comprehended this manual and who has not been properly trained in the safe operation of the equipment.

- ▲ Operator should be familiar with all functions of the unit.
- ▲ Operate implement from the driver's seat only.
- ▲ Make sure all guards and shields are in place and secured before operating the implement.
- ▲ Do not leave tractor or implement unattended with engine running.
- ▲ Dismounting from a moving tractor could cause serious injury or death.
- ▲ Do not stand between the tractor and implement during hitching.
- Keep hands, feet, and clothing away from power-driven parts.
- ▲ Wear snug fitting clothing to avoid entanglement with moving parts.
- ▲ Watch out for wires, trees, etc., when raising implement. Make sure all persons are clear of working area.
- ▲ Turning tractor too tight may cause implement to ride up on wheels. This could result in injury or equipment damage.





#### Look For The Safety Alert Symbol

The SAFETY ALERT SYMBOL indicates there is a potential hazard to personal safety involved and extra safety precaution must be taken. When you see this symbol, be alert and carefully read the message that follows it. In addition to design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

#### Be Aware of Signal Words

A Signal word designates a degree or level of hazard seriousness. The signal words are:

#### **A** DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations, typically for machine components that, for functional purposes, cannot be guarded.

#### 

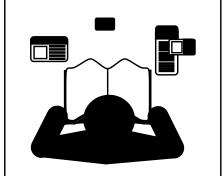
Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

#### 

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

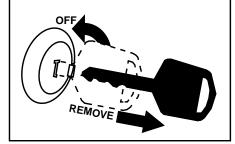
#### **For Your Protection**

▲ Thoroughly read and understand the "Safety Label" section, read all instructions noted on them.



#### Shutdown and Storage

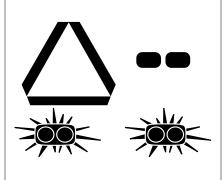
- ▲ Lower machine to ground, put tractor in park, turn off engine, and remove the key.
- ▲ Detach and store implements in a area where children normally do not play. Secure implement by using blocks and supports.



These are common practices that may or may not be applicable to the products described in this manual.

#### Use Safety Lights and Devices

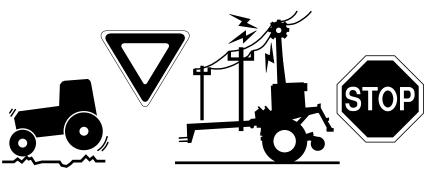
- ▲ Slow moving tractors, selfpropelled equipment, and towed implements can create a hazard when driven on public roads. They are difficult to see, especially at night.
- ▲ Flashing warning lights and turn signals are recommended whenever driving on public roads. Use lights and devices provided with implement.



#### Transport Machinery Safely

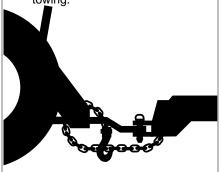
- ▲ Comply with state and local laws.
- ▲ Maximum transport speed for implement is 20 mph. DO NOT EXCEED. Never travel at a speed which does not allow adequate control of steering and stopping. Some rough terrain require a slower speed.
- ▲ Sudden braking can cause a towed load to swerve and upset. Reduce speed if towed load is not equipped with brakes.

- ▲ Use the following maximum speed tow load weight ratios as a guideline:
  - **20 mph** when weight is less than or equal to the weight of tractor.
  - **10 mph** when weight is double the weight of tractor.
- **IMPORTANT:** Do not tow a load that is more than double the weight of tractor.



#### Use A Safety Chain

- ▲ A safety chain will help control drawn machinery should it separate from the tractor drawbar.
- ▲ Use a chain with the strength rating equal to or greater than the gross weight of the towed machinery.
- ▲ Attach the chain to the tractor drawbar support or other specified anchor location. Allow only enough slack in the chain to permit turning.
- Do not use safety chain for towing.



#### **Practice Safe Maintenance**

- ▲ Understand procedure before doing work. Use proper tools and equipment, refer to Operator's Manual for additional information.
- Work in a clean dry area.
- ▲ Lower the implement to the ground, put tractor in park, turn off engine, and remove key before performing maintenance.
- ▲ Allow implement to cool completely.
- ▲ Do not grease or oil implement while it is in operation.
- Inspect all parts. Make sure parts are in good condition & installed properly.
- Remove buildup of grease, oil or debris.
- Remove all tools and unused parts from implement before operation.

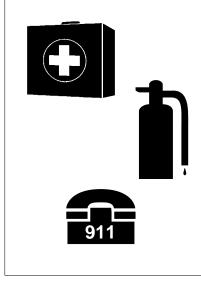


#### Important Safety Information

These are common practices that may or may not be applicable to the products described in this manual.

#### **Prepare for Emergencies**

- ▲ Be prepared if a fire starts.
- ▲ Keep a first aid kit and fire extinguisher handy.
- ▲ Keep emergency numbers for doctor, ambulance, hospital and fire department near phone.



#### Avoid High Pressure Fluids Hazard

- ▲ Escaping fluid under pressure can penetrate the skin causing serious injury.
- ▲ Avoid the hazard by relieving pressure before disconnecting hydraulic lines.
- ▲ Use a piece of paper or cardboard, NOT BODY PARTS, to check for suspected leaks.
- ▲ Wear protective gloves and safety glasses or goggles when working with hydraulic systems.
- ▲ If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be treated within a few hours or gangrene may result.



#### Wear Protective Equipment

- Protective clothing and equipment should be worn.
- ▲ Wear clothing and equipment appropriate for the job. Avoid loose fitting clothing.
- ▲ Prolonged exposure to loud noise can cause hearing impairment or hearing loss. Wear suitable hearing protection such as earmuffs or earplugs.
- ▲ Operating equipment safely requires the full attention of the operator. Avoid wearing radio headphones while operating machinery.



#### Keep Riders Off Machinery

- ▲ Riders obstruct the operator's view, they could be struck by foreign objects or thrown from the machine.
- Never allow children to operate equipment.



#### Important Safety Information



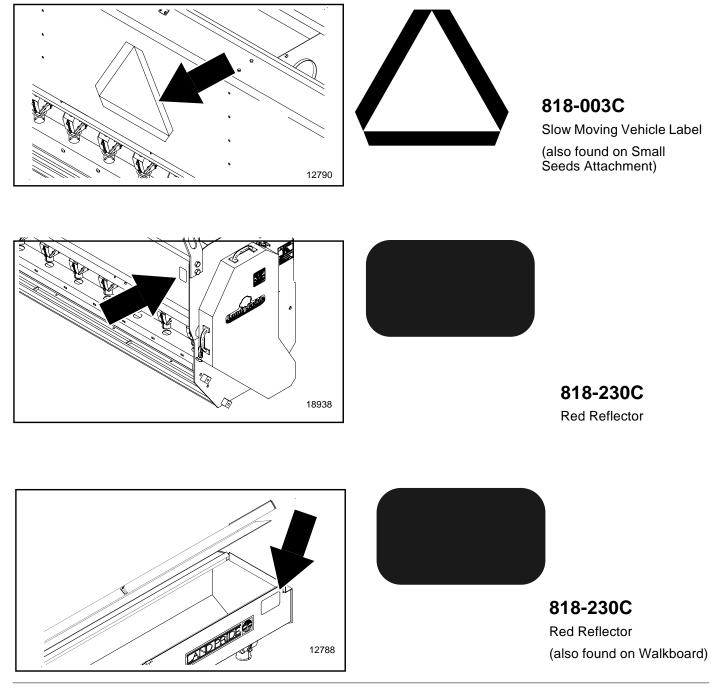
#### Safety Labels

Your Primary Seeder comes equipped with all safety labels in place. They were designed to help you safely operate your implement. Read and follow their directions.

- 1. Keep all safety labels clean and legible.
- 2. Replace all damaged or missing labels. To order new labels go to your nearest Land Pride dealer or visit our dealer locator at landpride.com.
- 3. Some new equipment installed during repair requires safety labels to be affixed to the replaced component as

specified by Land Pride. When ordering new components make sure the correct safety labels are included in the request.

- 4. Refer to this section for proper label placement. To install new labels:
  - a. Clean the area the label is to be placed.
  - b. Spray soapy water on the surface where the label is to be placed.
  - c. Peel backing from label. Press firmly onto the surface.
  - d. Squeeze out air bubbles with the edge of a credit card.

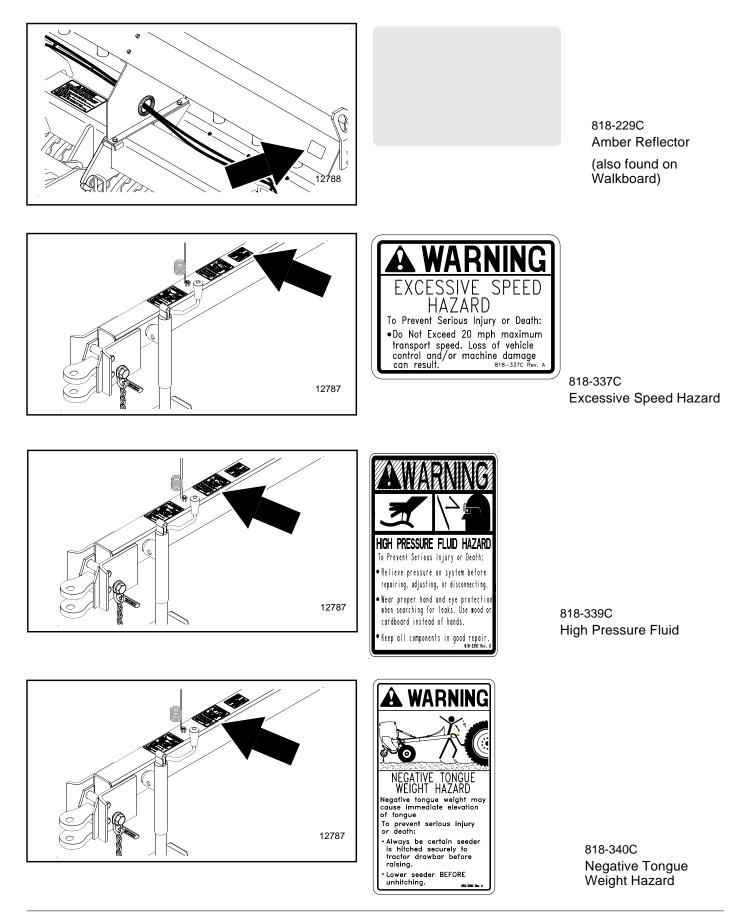


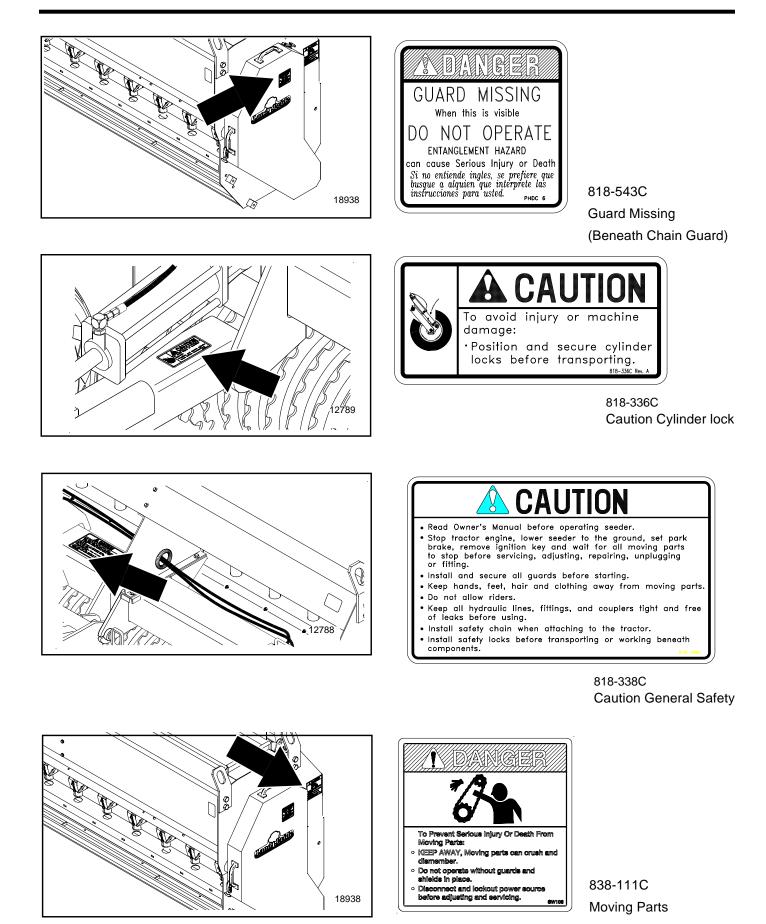
Download from Www.Somanuals.com. All Manuals Search And Download.

#### Land Pride

#### **Table of Contents**

#### Important Safety Information







Land Pride welcomes you to the growing family of new product owners.

This implement has been designed with care and built by skilled workers using quality materials. Proper assembly, maintenance, and safe operating practices will help you get years of satisfactory use from the machine.

#### Application

The PS25120 Primary Seeder is perfect for wide open landscape seeding, turf farms, brome pastures, highway re-seeding and areas where moguls, undulations or depressions do not exist. The main seedbox, available in 15 and 30 bushel capacities, is equipped with our standard fluted seed cups and agitation to seed most turf type grasses, as well as a variety of other seeds from peas to alfalfa.

It is possible to seed two different types of seeds at different rates by utilizing the optional Small Seeds Box. The Small Seeds Box uses a smaller version of our fluted seed cup for seeds such as alfalfa, clover and many other types of small seeds.

See "Section 6: Specifications & Capacities" on page 44 and "Section 7: Features & Benefits" on page 46 for additional information.

#### **Using This Manual**

- This Operator's Manual is designed to help familiarize you with safety, assembly, operation, adjustments, troubleshooting, and maintenance. Read this manual and follow the recommendations to help ensure safe and efficient operation.
- The information contained within this manual was current at the time of printing. Some parts may change slightly to assure you of the best performance.
- To order a new Operator's or Parts Manual contact your authorized dealer. Manuals can also be downloaded, free-of-charge from our website at www.landpride.com or printed from the Land Pride Service & Support Center by your dealer.

#### Terminology

"Right" or "Left" as used in this manual is determined by facing the direction the machine will operate while in use unless otherwise stated.

#### Definitions

**NOTE:** A special point of information that the operator must be aware of before continuing.

**IMPORTANT:** A special point of information related to its preceding topic. Land Pride's intention is that this information should be read and noted before continuing.

#### **Owner Assistance**

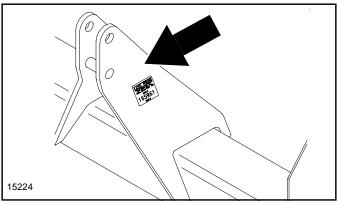
The Warranty Registration card should be filled out by the dealer at the time of purchase. This information is necessary to provide you with quality customer service.

If customer service or repair parts are required contact a Land Pride dealer. A dealer has trained personnel, repair parts and equipment needed to service the seeder.

The parts on your Primary Seeder have been specially designed and should only be replaced with genuine Land Pride parts. Therefore, should your seeder require replacement parts go to your Land Pride Dealer.

#### Serial Number Plate

For prompt service always use the serial number and model number when ordering parts from your Land Pride dealer. Be sure to include your serial and model numbers in correspondence also. Refer to Figure 1 for the location of your serial number plate.



Serial Number Plate Location Figure 1

#### **Further Assistance**

Your dealer wants you to be satisfied with your new Primary Seeder. If for any reason you do not understand any part of this manual or are not satisfied with the service received, the following actions are suggested:

- 1. Discuss the matter with your dealership service manager making sure he is aware of any problems you may have and that he has had the opportunity to assist you.
- If you are still not satisfied, seek out the owner or general manager of the dealership, explain the problem and request assistance.
- 3. For further assistance write to:

Land Pride Service Department 1525 East North Street P.O. Box 5060 Salina, Ks. 67402-5060

E-mail address lpservicedept@landpride.com

Support Center by your dealer. **'gy** str" as used in this manual is determin



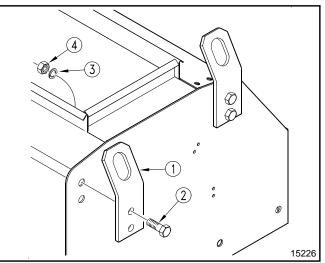
Before attempting to assemble the seeder use the following as a check list. Having all the needed parts and equipment readily at hand will speed up your assembly task and will make the job as safe as possible.

#### **Pre-Assembly Checklist**

Check	Reference
Fasteners and pins that were shipped with the seeder. <b>NOTE:</b> All hardware from the factory has been installed in the location where it will be used. If a part or fastener is temporarily removed for assembly reasons, remember where it goes. Keep the parts separated.	Operator's Manual
All working parts are moving freely, bolts are tight and cotter pins are spread.	Operator's Manual
All grease fittings are in place and lubricated.	Section 5 Page 39
Proper tension and alignment on all drive chains.	Operator's Manual
Safety decals are correctly located and legible. Replace if damaged.	Important Safety Information
Red and amber reflectors are correctly located and visible.	Important Safety Information
"Slow moving vehicle" emblem is in place.	Important Safety Information
Inflate tires to specified PSI air pressure. Tighten wheel bolts to specified torque.	Section 8 Page 48
Have a minimum of 2 people at hand while assembling the drill.	Section 1
Have a fork lift or loader along with chains and safety stands that are sized for the job ready for the assembly task.	Section 1
Have a tractor with remote hydraulics ready to attach to the tongue. The tongue must be anchored to a large enough tractor to overcome the negative tongue weight that will be present if the unit is equipped with front wheels.	Section 1 Page 15
<b>CAUTION!</b> Be familiar with the term NEGATIVE TONGUE WEIGHT. Be aware of the special precautions you should take when working with an implement that can develop Negative Tongue Weight.	

#### **Sling Brackets**

After the unit is uncrated check to see if the sling brackets are installed, if not, install them now - two on each end of unit with hardware, refer to Figure 1-1.



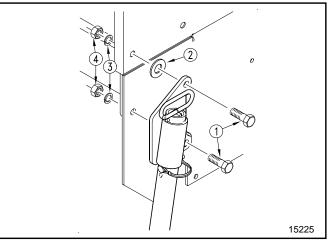
Sling Bracket Installation Figure 1-1

The sling brackets allow points at each end to hook the chain for lifting of the unit. When hooking the chain to sling brackets, be certain to either use a spreader bar on the chain or use a long chain to prevent bending the sling brackets.

#### **Three-Point Primary Seeder**

Your 3-Point 25 Series Primary Seeder is shipped to you almost completely assembled. Carefully follow the instructions below for final assembly.

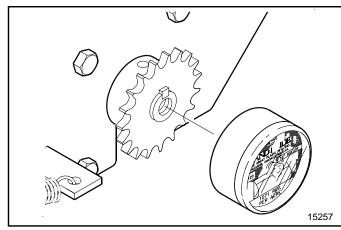
- 1. Remove the seeder from its crating.
- 2. Refer to Figure 1-2 for installation of parking stand. To install use the 5/8" x 2 1/4" long bolts (#1), a flat washer (#2), lock washers (#3), and nuts (#4) on the left end of the seeder frame as shown. Be sure to use the flat washer (#2) as shown to ensure proper installation of the parking stand.



Parking Stand Installation Figure 1-2

#### Section 1: Assembly and Set-up

3. Refer to Figure 1-3 for installation of the acremeter on to the right hand drive shaft.

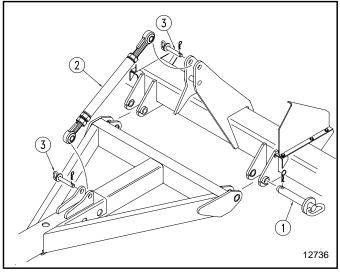


Acremeter Installation Figure 1-3

 Check to see all nuts are tightened. See *Torque* Values Chart in "Section 9: Appendix" on page 48 for torque specifications.

#### Pull-Type Primary Seeder

- 1. Remove the seeder and components from their crating.
- 2. Attach the tongue to the seeder with hitch pins (#1). Attach the turnbuckle (#2) to the tongue and the top hitch of the seeder with hitch pins (#3), refer to Figure 1-4.



Tongue & Turnbuckle Assembly Figure 1-4

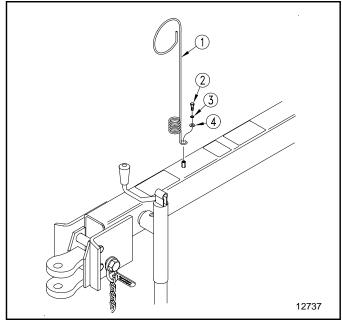
- 3. Refer to Figure 1-3 for installation of the acremeter on to the right hand drive shaft.
- 4. Check to see all nuts are tightened. See *Torque Values Chart* in **"Section 9: Appendix"** on page 48 for torque specifications.

# Pull-Type Primary Seeder with End Wheels

### 

Serious injury or death could result from escaping high pressure hydraulic fluid. Use paper or cardboard, NOT BODY PARTS, to check for suspected leaks.

- 1. Remove the seeder and components from their crating.
- 2. Follow steps 2 and 3 of the "Pull-type Primary Seeder" for assembly of tongue and acremeter.
- Install spring hose loop (#1) to tongue with 5/16" x 3/4" long bolts (#2), 5/16" lock washer (#3), and 5/16" USS flat washer (#4), Figure 1-5.

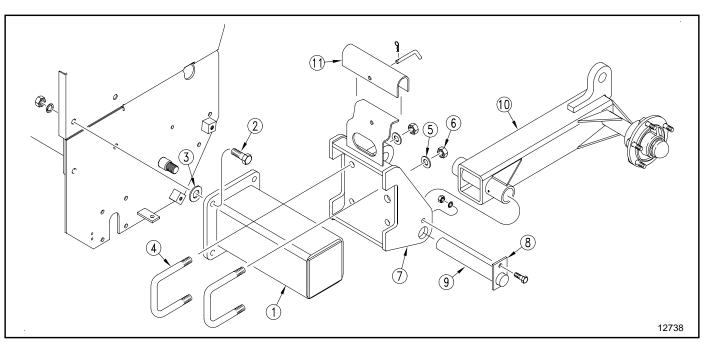


Spring Hose Loop Assembly Figure 1-5

#### Refer to Figure 1-6:

- 4. Starting with the left hand side of the seeder, remove the four 5/8" bolts and attach the end wheel mount (#1) to the seeder frame replacing the 5/8" bolts with 5/8" x 2 1/4" long bolts (#2). Flat washers (#3) are used between the end wheel mounts and the seed box for proper spacing.
- 5. Install the wheel bracket using 3/4" u-bolts (#4), flat washers (#5) and nuts (#6).

**NOTE:** The wheel bracket (#7) should be facing the rear of the seeder. To determine the correct positioning for the wheel brackets, note the tab (#8) on the end of the wheel arm pivot (#9). This tab should be facing away from the seeder, as shown, so the wheel arm pivot can be easily removed.



Wheel Bracket & Wheel Arm Assembly Figure 1-6

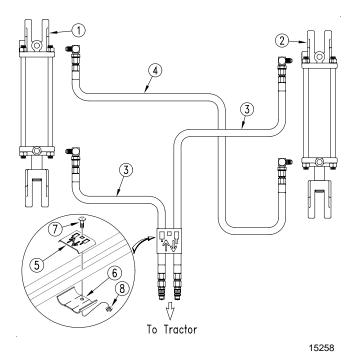
- 6. Remove wheel arm pivot shaft from wheel bracket.
- Position the wheel arm (#10) so that the wheel points away from the seeder with cylinder bracket up. Replace wheel arm pivot shaft.
- 8. Pin the cylinder lock (#11) in storage position.
- 9. Repeat steps 5-9 for the right hand side.

#### Refer to Figure 1-7:

10. Install 3 1/4" x 8" x 1 1/4" hydraulic cylinder (#1) and 3 1/2" x 8" x 1 1/4" hydraulic cylinder (#2) and complete the plumbing as shown in Figure 1-7. Route the hydraulic hoses (#3) through the spring hose loop and along the tongue, behind the upper hitch and through the holes in the box supports, finishing with the hoses going around the frame end plates and through the hose retainers on the top of the wheel brackets. Route the hydraulic hose (#4) through the holes in the box supports, and finish with the hose going around the frame end plates and through the hose retainers on the top of the wheel brackets. Any excess hose should be coiled and tied with a plastic tie, placing the coil between the upper hitch. Position hose clamp (#5) & (#6) as shown and fasten together with 5/16" long carriage bolt (#7) and 5/16" flange nut (#8). Secure hoses to tongue using one of the plastic cable ties provided.

**NOTE:** Your End Wheel Seeder is equipped with rephasing hydraulic lift cylinders. The plumbing must be assembled correctly in order for the rephasing cylinders to function properly.

11. Check to see all nuts are tightened. See *Torque Values Chart* in "**Section 9: Appendix**" on page 48 for torque specifications.



End Wheel Hydraulic Schematic Figure 1-7

#### Pull-Type Primary Seeder with Front Wheels



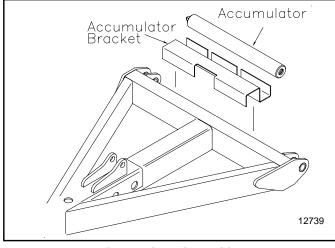
Serious injury or death could result from escaping high pressure hydraulic fluid. Use paper or cardboard, NOT BODY PARTS, to check for suspected leaks.

- 1. Remove the seeder and components from their crating.
- 2. Refer to Figure 1-3 on page 8 for installation of the acremeter on to the right hand drive shaft.
- 3. Install spring hose loop, Figure 1-5 on page 8.

# 

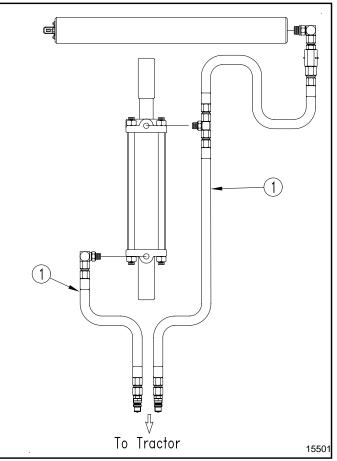
The Accumulator/Cylinder Package furnished with your front wheel option is provided for your protection. Lack of or improper installation may result in injury or in damage to your seeder because of the negative tongue weight involved with the front wheels.

- 4. Attach the tongue to the seeder with hitch pins.
- 5. Refer to Figure 1-8 and attach the accumulator bracket and accumulator to the rear of the tongue as shown, fastening with hose clamps provided.



Accumulator Assembly Figure 1-8

- 6. Refer to Figure 1-10 and install hydraulic cylinder with single lug (#1) to tongue and top hitch as shown.
- Complete the plumbing by following the schematic in Figure 1-9. The plumbing must be assembled correctly in order for the accumulator to function properly. Route the hydraulic hoses (#1) along the tongue. These hoses will be clamped together with the wheel cylinder hoses in step 13.



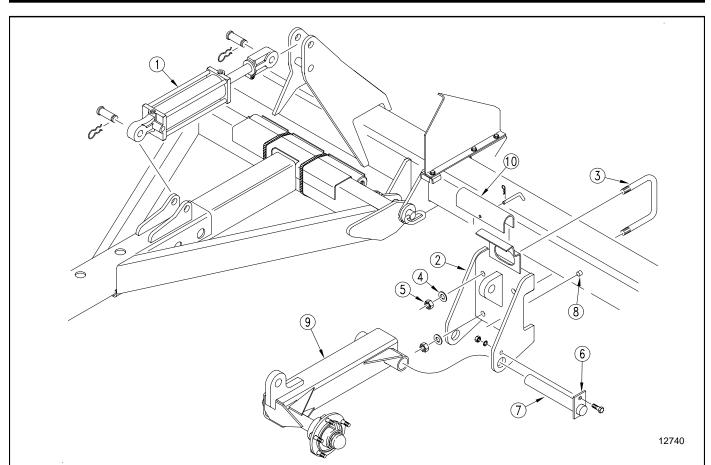
Accumulator Hydraulic Schematic Figure 1-9

#### Refer to Figure 1-10:

8. Install the wheel bracket (#2) using 3/4" u-bolts (#3), flat washers (#4) and nuts (#5). The wheel bracket should be facing the front of the seeder. To determine the correct positioning for the wheel brackets, note the tab (#6) on the end of the wheel arm pivot (#7). This tab should be toward the outside of the seeder, as shown, so the wheel arm pivot can be easily removed.

**NOTE:** The corresponding wheel brackets must be positioned with the 1" hole over the front wheel locating stub (#8) on the frame as shown for proper distribution of seeder weight when in transport. Locating the brackets at any other place on the frame could result in damage to the seeder.

- 9. Remove wheel arm pivot shaft from wheel bracket.
- Position the wheel arm (#9) so that the wheel points toward the outside of the seeder with cylinder bracket up. Replace wheel arm pivot shaft.
- 11. Pin the cylinder lock (#10) in storage position.
- 12. Repeat steps 9-11 for the right hand side.



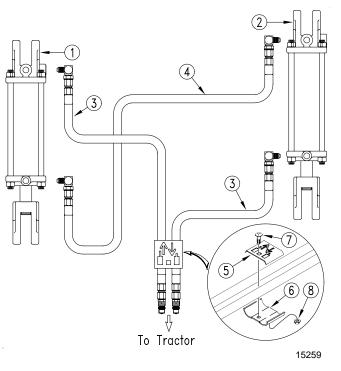
Cylinder, Wheel Bracket & Wheel Arm Assembly Figure 1-10

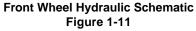
#### Refer to Figure 1-11:

13. Install 3 1/2" x 8" x 1 1/4" hydraulic cylinder (#1) 3 1/ 4" x 8" x 1 1/4" hydraulic cylinder (#2) and complete the plumbing as shown. Route the hydraulic hoses (#3) through the spring hose loop and along the tongue, underneath the turnbuckle, behind the upper hitch and through the holes in the box supports, finishing with the hoses going through the hose retainers on the top of the wheel brackets. Route the hydraulic hose (#4) through the holes in the box supports, and finishing with the hose going through the hose retainers on the wheel brackets. Any excess hose should be coiled and tied with a plastic tie, placing the coil between the upper hitch. Position hose clamp (#5) & (#6) as shown and fasten together with 5/16" x 1 1/4" long carriage bolt (#7) and 5/16" flange nut (#8) adding the hoses from step 7. Secure hoses to tongue using one of the plastic cable ties provided.

**NOTE:** Your Front Wheel Seeder is equipped with rephasing hydraulic lift cylinders. The plumbing must be assembled correctly in order for the rephasing cylinders to function properly.

14. Check to see all nuts are tightened. See *Torque Values Chart* in "**Section 9: Appendix**" on page 48 for additional torque specifications.





#### Section 2: Operating Instructions



#### **General Description**

The following information is a brief description of how this implement works. It is included to help you understand the operation of this seeder.

The power to drive the seeding function of this seeder comes from the ground speed of the tractor. The seed metering is powered by the front roller at a rate proportional to the distance driven. This ensures that the rate applied in pounds per acre or pounds per 1000 square feet remains constant as ground speed is varied. The power is transmitted via drive chains to the seed cups. This drive can be adjusted to a high or low range to broadcast more or less seed. The seed rate is adjustable using the seed rate lever located at the rear of the seeder. The seed is dropped between cast iron rollers. The front roller crushes clods, presses down small stones and forms a firm seedbed. The rear roller firms the soil around the seeds.

#### **Operating Check List**

In addition to design and configuration of equipment; hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training involved in its operation, transport, maintenance and storage of equipment. Before beginning to operate your Primary Seeder, the following inspection should be performed.

Check	Reference
Safety Rules	Page 1
Operating Instructions	Page 13
Tire Pressure	Page 48
Lubricate seeder as needed.	Page 39
Check for loose fasteners	Page 48
Check for hydraulic leaks	Page 15
Inspect the feed cups and seed tubes for foreign matter.	Page 47
Set speed change sprocket for drive type desired.	Page 18
Set seed rate.	Page 20

#### **Tractor Requirements**

Your PS25120 is designed for tractors in the Category 2 class. Horsepower rating of the tractor should not be less than 40 HP for a pull-type unit and not less than 50 HP for 3-Point, front wheel or end wheel units.

**NOTE:** In order to maintain steering control, balast may have to be added to your tractor. To determine whether or not to add ballast, refer to your tractor operator's manual.

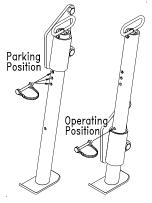
Adequate front end weight is required on tractors for use with a 3-point seeder. Check tractor's 3-point lifting capacity. Refer to "**Section 6: Specifications & Capacities**" on page 44 for seeder weight.

#### Front Wheel Pull-Type

With the seeder loaded and raised for transport, certain drawbar capacities could be exceeded by negative tongue weight, see **"Tractor Drawbar Hook-Up"** on page 14.

#### **Tractor 3-Point Hook-Up**

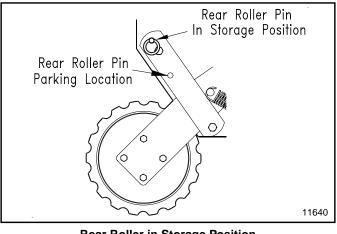
- 1. Back tractor up to seeder until 3-Point links are aligned with hitch clevises on seeder.
- 2. Secure the tractor's 3-Point lower links to the lower hitch clevises using 1 1/8" diameter hitch pins.
- 3. Secure the tractor's top center link to the seeder top hitch using a 1" diameter hitch pin.With the seeder resting on level ground, adjust the tractor's top link until the seeder is level.
- 4. Move parking stand to operating position. Refer to Figure 2-1.



15256

Parking Stand Positions Figure 2-1

5. Remove rear roller lock pin from parking position and place in storage position. Refer to Figure 2-2.

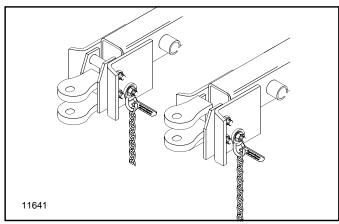


Rear Roller in Storage Position Figure 2-2

#### **Tractor Drawbar Hook-Up**

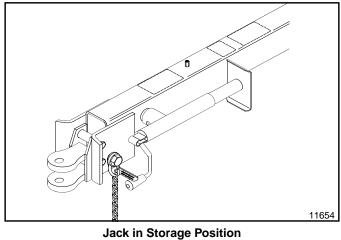
PS25120 pull-type units are equipped with a clevis style hitch. For proper field operation, the seeder box should be level in field position.

- 1. The mounting holes in the clevis hitch have been offset so the hitch can be turned over and bolted at two different hitch heights, Figure 2-3.
- 2. Back the tractor draw bar up to the seeder hitch to determine the proper hitch position.
- 3. Connect the hitch to the tractor using a pin of adequate strength (minimum 1" diameter). For the Front Wheel Pull-type option you must install a retaining clip on the hitch pin to prevent it from working up as the seeder changes from positive to negative tongue weight.
- 4. Your pull-type seeder is equipped with a hitch safety chain. The safety chain should be securely attached to the seeder hitch and tractor draw bar support.



Clevis Style Hitch Height Adjustments Figure 2-3

- 5. Retract the jack until the weight of the tongue is resting on the tractor draw bar.
- 6. Unpin the tongue jack and pin in storage position, Figure 2-4.

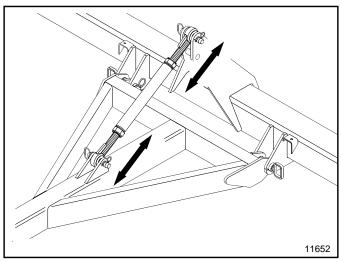


Jack in Storage Positio Figure 2-4

7. All pull-type, end wheel and front wheel units should be properly transported with the seed box level front to back.

#### Pull-Type and End Wheel Units

Adjust the turnbuckle to level the seeder, Figure 2-5, by loosening the jam nuts and turning center section. Retighten jam nut when level.



Turnbuckle Adjustment Figure 2-5

#### **Front Wheel Units**

Use the tongue hydraulic cylinder to level the seed box.

# WARNING

Front wheel pull-type seeders have negative tongue weight when in transport position. Negative tongue weight may cause immediate elevation of tongue. Always be certain seeder is hitched securely to tractor drawbar and safety chain attached before raising. Lower seeder before unhitching.

**NOTE:** The negative tongue force imposed by the seeder with the front wheel in the raised position when seeder is:

- empty
  - 15 bushel box can be as high as 900 lbs.
  - 30 bushel box can be as high as 1000 lbs.
- loaded
  - 15 bushel box can be as high as 1200 lbs. 30 bushel box can be as high as 1500 lbs.

Section 2: Operating Instructions

#### **Tractor Hydraulic Hook-Up**



Serious injury or death could result from escaping high pressure hydraulic fluid. Use paper or cardboard, NOT BODY PARTS, to check for suspected leaks.

For pull-type seeders equipped with front or end wheels, route all hydraulic hoses along the tongue and through the hose loop on the front of the tongue as described in the assembly instruction section. Connect the hoses to the tractor remote outlets.

#### **Bleeding Hydraulic System**

The Front and End Wheel Pull-Type Seeders are equipped with rephasing type lift hydraulic cylinders that require a special procedure for bleeding air from the hydraulic circuits. If your dealer has not already prepared the cylinders for transport use, read the following information carefully. The rephasing type cylinders will not function properly if this procedure is not followed.

# 

Do not crack hose fittings in order to bleed air from this system.

**NOTE:** Check the hydraulic fluid in the tractor reservoir and fill to the proper level before starting this procedure. If the bleeding is performed with a low reservoir supply, there is a chance of drawing air into the system causing jerky or uneven cylinder movements.

- Put the tractor in park and activate its parking brake. If the tractor does not have these features, block 2 or 3 of its wheels to positively prevent the tractor from rolling during this bleeding operation.
- 2. Jack up and support the front of the seeder at a point close to each wheel to take the weight off of the cylinders. If the wheel cylinders have previously been engaged, they may be used to assist in raising the frame.
- 3. With the seeder blocked and supported, unpin both ends of the cylinders. Remove and safely position the cylinders so the base end of the cylinder is lower than the rod end port. Also, make sure there is enough room for the rods of each cylinder to fully extend without contacting anything.

**NOTE:** In order to prevent trapped air pockets, the port on the rod end must be higher than any other part of the cylinder during the bleeding operation.

4. With the tractor at idle, hold the remote lever on to put fluid into the lifting circuit. When the slave cylinder has been completely extended, hold the remote lever on for one minute.

- 5. Retract the cylinder rods. Extend the rods again and hold the remote lever on for one more minute. Repeat this step two more times to completely bleed the system.
- 6. Retract and reattach the hydraulic cylinders. If air is trapped in either cylinder, the affected cylinder will have a spongy, erratic movement and the seeder will not raise evenly.
- 7. Add oil to the tractor's hydraulic reservoir to fill it to the proper level.

After the seeder is raised, a slight settling will occur due to the action of the rephasing cylinders.

#### **Operating Hydraulic Lift System**

The lift cylinders may after a period of time get out of time or phase. The effects of this can be seen when one wheel of the seeder is higher than the other because its lift cylinder is over retracted compared to the other lift cylinder.

To rephase the cylinders, raise the seeder completely up and hold the tractor hydraulic lever on for a few seconds to give the cylinders time to rephase. This should be done each time the seeder is raised. Momentarily reversing the hydraulic lever immediately after rephasing to allow the cylinders to retract about 1/2" will help in maintaining a level seeder during transport.

**NOTE:** Understand that having the cylinders become gradually out of time is different than having air trapped in the system from improper bleeding. Each condition is corrected differently.

# Transporting

When traveling on public roads whether at night or during the day, use accessory light and devices for adequate warning to operators of other vehicles. Comply with all federal, state and local laws.

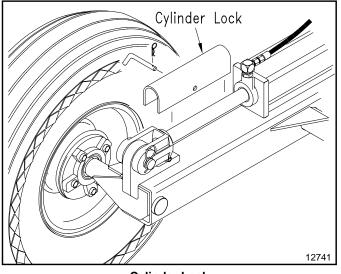
- 1. Select a safe ground travel speed when transporting from one area to another. When traveling on roadways, transport in such a way that faster moving vehicles may pass you safely.
- 2. Reduce tractor ground speed when turning. Leave enough clearance so the seeder does not contact obstacles such as buildings, trees or fences.
- 3. When traveling over rough or hilly terrain, shift tractor to a lower gear.

#### Pull-Type, Front, or End Wheel Seeders

1. For Pull-Type Seeder with or without wheels, make sure the seeder is securely attached to the tractor draw bar and the hitch safety chain has been securely attached.

#### Section 2: Operating Instructions

 The Front Wheel and End Wheel Pull-Type Seeder is equipped with a transport cylinder lock. Raise the seeder. Remove pin and cylinder lock from storage position on wheel bracket. Place lock over cylinder rod and pin to secure in place, Figure 2-6. This procedure should be done to safeguard against mechanical or hydraulic failure.



Cylinder Lock Figure 2-6

- 3. For seeders with wheel options, check to see that the transport tires have the proper inflation, see *Tire Inflation Chart* in **"Section 9: Appendix"** on page 48.
- 4. Transport Pull-Type Seeder without wheels at field speed only.

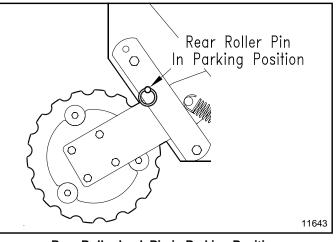
*Pull-Type seeders with wheel options should never be pulled faster than 20 miles per hour!* 

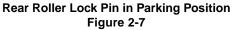
#### Parking

The following steps should be done when preparing to store the seeder or unhitch it from the tractor. See also **"Storage"** on page 39 for additional information on long term storage of your seeder.

#### **3-Point Seeders**

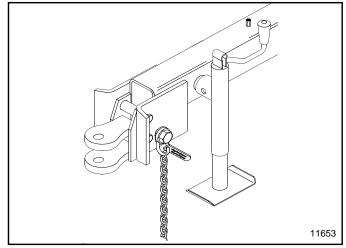
- 1. Park the seeder on a level, solid area.
- To prevent the seeder from tipping backward, remove rear roller lock pin from storage position and place in parking position. Refer to Figure 2-7.
- 3. Lower parking stand, and pin in park position. Refer to Figure 2-1 on page 13.
- 4. Unhitch from tractor.





#### Pull-Type, Front or End Wheel Seeders

- 1. Park the seeder on a level, solid area.
- 2. Lower the seeder to the ground if equipped with front or end wheels. Shut off tractor engine, engage parking brake, and remove all hydraulic pressure from seeder lift cylinders.
- 3. Remove the jack from its storage position and place it in the parking position located on the left side of the tongue. Refer to Figure 2-8.



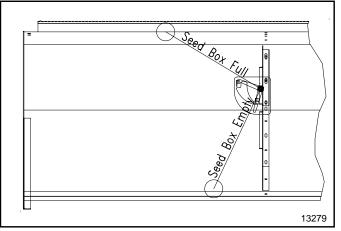
Jack in Parking Position Figure 2-8

- 4. If the ground is soft, place a board or plate under the jack to increase the ground contact area.
- 5. Extend the jack until the weight of the tongue is on the jack and has been removed from the tractor drawbar.
- 6. If equipped with front or end wheels, unplug the hydraulic lines from the tractor.
- 7. Remove the hitch pin and safety chain from the tractor draw bar.
- 8. Unhitch from tractor.

#### Section 2: Operating Instructions

#### **Seed Level Indicator**

Be sure your Seed Level Indicator is adjusted so the foam float will be above the see box rim with box lid open to allow for filling the box, and the gauge will show empty (E) with the box lid closed, refer to Figure 2-9.



Seed Level Indicator Figure 2-9

#### Agitator Attachment (Optional) General Operating Instructions

- 1. The Agitator Attachment can be effective:
  - a. for large, fluffy, hard-to-plant seeds.
  - b. if uneven seeding occurs because of bridging in the seed box.
- When using the agitator, move the seed broadcasting handle to the left, see "Seed Broadcasting System" on page 18. In doing so, the seed will have a larger area to fall through to avoid plugging.
- 3. A large amount of stems or leaves mixed in with the seeds can cause bridging in the feed cups. Always use clean seeds if possible.
- It will be necessary to calibrate your seed rate after connecting the agitator. See "Calibrating & Adjusting Seeding Rate" on page 20 for detailed instructions. While running the calibration, check to make sure the seed is not bridging in the feed cups.

**NOTE:** If you are not seeding large, fluffy seeds, or the agitator is not needed to eliminate bridging, the agitator sprocket should be disconnected. Failure to do so will shorten the chain life.



#### **Drive System**

Your Primary Seeder uses standard no. 40 roller chain throughout its drive system. The drive system is simple and designed for low maintenance.

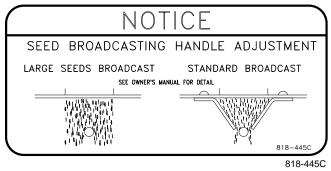
- 1. Check the drive idler to insure that it is taking up any excess chain slack.
- 2. Check each chain to insure that it is not over-tight.
- 3. Annually clean and lubricate chain with chain oil.

#### **Roller Packing Wheels**

The front and rear roller packing wheels should turn freely. In field position, the rear roller assembly should be free to float up and down to follow the terrain of your field. See Figure 2-2.

#### Seed Broadcasting System

The seed broadcasting system gives you an even distribution of seeds. At the rear of your seeder, beneath the feed cups, is the seed broadcasting handle. For most seeds this handle should be set to the standard setting, see Figure 3-2.



Seed Broadcasting Handle Adjustments Figure 3-2

Using the standard setting for seed broadcasting large, fluffy seeds will have a tendency to bridge. This results in plugging. Therefore; it is necessary to adjust the seed broadcasting handle to the LARGE SEEDS BROADCAST position, Figure 3-2. This gives the seeds a larger area to fall through to help eliminate plugging.

**NOTE:** The agitator option can be used when seeding large, fluffy seeds to prevent bridging in the seed box. However, bridging may still occur in the feed cups if there are stems or leaves mixed in with the seeds.

#### Seed Rate Speed Change

The seed rate speed change is designed to give you two speeds for different types of seeds and rates. The two drive types are high range (fast speed) and low range (slow speed).

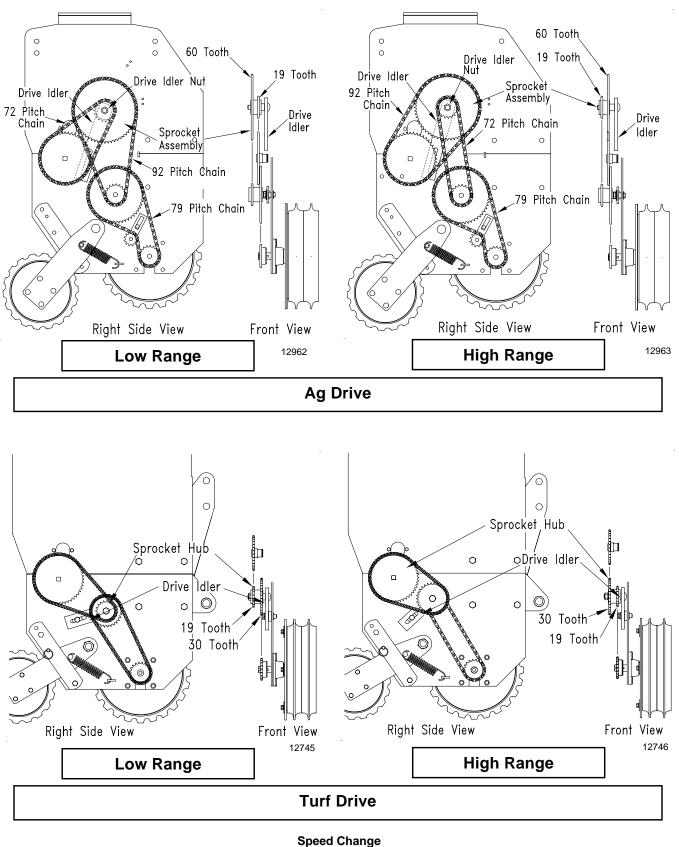
#### 15 Bushel Speed Change

To change the drive type, loosen the drive idler arm nut. Remove the nut in the center of the hub, and turn sprocket hub over. The chains should remain on the same sprockets. Reassemble sprocket hub and install drive chains. Adjust the drive idler to snug up the chains, Figure 3-3 on page 19. Replace chain guard.

#### **30 Bushel Speed Change**

To change the drive type, loosen the idler arm nut. Remove the chains and the nut in the center of sprocket hub. Turn sprocket hub over and reassemble. Install drive chains then adjust the drive idler to snug up the chains. Figure 3-3 on page 19. Replace chain guard.

#### Section 3: Adjustments



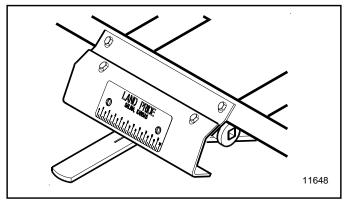
Speed Change Figure 3-3

#### **Calibrating & Adjusting Seeding Rate**

**NOTE:** Seeding rates will vary greatly with variations in sizes of seeds, although the seeding rates listed in this manual are based on an average seed size, we recommend that you test and adjust your primary seeder using the procedures listed below to help insure an accurate seeding rate.

**IMPORTANT:** The bold italic areas on the seed rate charts are settings which may result in inconsistent rates or damage to feed cups.

- 1. Using the seeding rate charts, beginning on page 21 to determine the seeding rate for the seed you will be planting and make the following adjustments.
  - c. On the right hand side of your seeder is the drive system. Change the speed change sprocket, if necessary, to the desired drive type, and adjust the drive idler, see Figure 3-3 on page 19.
  - d. Locate seed rate adjustment handle, Figure 3-4, at the rear of the seeder, and move it to the indicator number obtained from the seeding rate charts. For best results, first move seed rate adjustment handle all the way to the left. Then move the handle to the desired setting, moving from a lower to a higher number.



Seed Rate Adjustment Figure 3-4

- 2. Secure the seed broadcasting handle at the rear of the seeder to the proper setting, Figure 3-2 on page 18.
- 3. There are many factors which will affect seeding rates: seed treatment, weight of seed, surface condition of seed, and roller wheel slippage. Minor adjustments will probably be needed to compensate for the above factors.
- 4. The seed rate charts are based on average size seed. This may differ from the seed you are using. Use the seed rate charts as a guide. For lighter than average seed, the setting should be increased. For heavier than average seed, the setting should be decreased.

- 5. Complete the following procedure to calibrate the rate for your specific seed.
  - a. Place several pounds of seed over three of the seed cups at the outboard end of the seeder.
  - b. Raise and support the seeder so the drive roller assembly will rotate.
  - c. Rotate the drive roller assembly to see that the drive system is working properly and that feed cups are free from foreign matter.
  - d. Place a container under the three feed cups to gather the seed as it is metered.
  - e. Rotate the drive roller assembly 25 rotations to get 1000 square feet. To get on acre rotate drive roller assembly until one acre has been tallied on the acremeter or approximately 1071 rotations. Check the three feed cups to make sure each cup has plenty of seed coming into it.
  - f. Weigh the seed which has been metered. Divide by three. This will give you the ounces/pounds metered by each feed cup. Multiply by the number of cups on your seeder to arrive at the total pounds per 1000 square feet or total pounds per acre that your seeder would meter at the setting. If this figure is different than desired, set your feed cup adjustment handle accordingly.
- 6. You may want to repeat the calibration procedure if the results of your calibration vary greatly from the suggested settings on the chart.

To determine seed rates for seeds not listed on the charts, compare weight and size to those listed and use a similar setting. Follow steps 5 and 6 to calibrate the seed rate.

Field conditions will affect seeding rates. When seeding check the amount of seed you are using by noting acres or square feet seeded, amount of seed added to seeder, and level of seed in the seed box. If you suspect that you are seeding more or less seed than desired, and you have accurately calibrated the seeder to your seed, you may need to adjust the seeding rate slightly to compensate for field conditions.

This seeder is equipped with a four-position feed cup door on each feed cup. The highest handle position is for small seeds, the second and third positions are for larger seeds. For application with this seeder, you will only need to use the highest position. Make sure all handles are in the same position before seeding. The wide open position will allow complete clean out of the feed cup.

**NOTE:** DO NOT open the cup to the wide open position with seed in the box unless complete clean out is desired.

#### Seed Rate Charts for Ag Drive

Seeu na		IIa	113		Ay	וט	Ive														
Cup Setting	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Alfalfa (Poun	nds per	Acre	)																		
High Range	0	30	46	68	96	129	166	207	251	298	348	398	450	501	553	603	652	699	743	783	820
Low Range	0	1	4	8	12	17	22	27	33	39	44	49	55	60	64	68	72	75	77	79	80
Alfalfa (Poun	nds per	1000	) Sau	are F	eet)	-		-	1	1	-	1-	1		1	1	-	<u> </u>	-	<u> </u>	1
High Range	0.0	0.7	1.0	1.6	2.2	2.9	3.8	4.8	5.8	6.9	8.0	9.1	10.3	11.5	12.7	13.8	15.0	16.0	17.0	18.0	18.8
Low Range	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.3	1.4	1.5	1.6	1.7	1.7	1.8	1.8	1.8
Low Kange	10.0	10.0	10.1	10.2	0.5	10.4	10.5	10.0	0.0	10.5	1.0	11.1	1.5	1.4	1.5	11.0	1.7	1.7	11.0	1.0	11.0
-	<u> </u>		-	<u>,                                     </u>																	
Bent Grass (	<u> </u>	s per	-	<u></u>	_	_			_			_		_							
High Range	0	20	33	49	66	85	105	126	148	171	193	216	239	261	283	303	323	341	357	371	383
Low Range	0	3	4	5	7	9	11	14	16	19	22	25	28	31	34	36	38	40	42	44	45
Bent Grass (	(Pound	s per	1000	) Squa	are Fe	eet)															
High Range	0.0	0.4	0.8	1.1	1.5	1.9	2.4	2.9	3.4	3.9	4.4	5.0	5.5	6.0	6.5	7.0	7.4	7.8	8.2	8.5	8.8
Low Range	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.8	0.8	0.9	0.9	1.0	1.0	1.0
Bermuda (Po	unds p	er Ac	re)																		
High Range	0	16	35	55	75	96	117	138	160	183	206	230	254	279	304	330	356	383	410	438	467
Low Range	0	6	7	8	10	12	15	17	20	24	27	30	34	37	40	44	47	50	52	54	56
Bermuda (Po	ounds r	ber 10	000 S	guare	e Fee	t)															
High Range	0.0	0.4	0.8	1.3	1.7	2.2	2.7	3.2	3.7	4.2	4.7	5.3	5.8	6.4	7.0	7.6	8.2	8.8	9.4	10.1	10.7
Low Range	0.0	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.1	1.1	1.2	1.2	1.3
g	10.0	1	1	10	1	10.0	10.0		10.0	10.0	10.0	1	10.0		10.0	1.10		1	<u></u>		<u></u>
Duffele Cree		un al a u	A																		
Buffalo Gras		· ·	-	<u> </u>	1	1.	1	1	1		1	1	1	1	1	1	1	1	1	1	
High Range	0	17	23	32	43	56	70	86	102	119	137	154	171	187	202	215	227	237	244	249	251
Low Range	0	2	3	4	5	6	8	10	12	14	16	18	20	22	23	25	26	28	28	29	29
Buffalo Gras	ss (Pou	nds p	per 10	)00 S	quare	Fee	t)		_	_		_									
High Range	0.0	0.4	0.5	0.7	1.0	1.3	1.6	2.0	2.3	2.7	3.1	3.5	3.9	4.3	4.6	4.9	5.2	5.4	5.6	5.7	5.8
Low Range	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.7
Clover - Ladir	no (Pou	inds i	per A	cre)																	
High Range	0	33	47	66	91	122	156	195	236	281	327	375	423	472	520	567	613	656	697	734	767
Low Range	0	6	7	8	12	15	20	25	31	38	45	52	60	67	74	81	87	93	97	102	105
Clover - Lad	ino (Po	-	_	-		-	-	1	1.	1	1.4		1	1	1	1.	1	1	1*:	1=	1
High Range	0.0	0.8	1.1	1.5	2.1	2.8	3.6	4.5	5.4	6.4	7.5	8.6	9.7	10.8	11.9	13.0	14.1	15.1	16.0	16.8	17.6
Low Range	0.0	0.0	0.2	0.2	0.3	0.3	0.5	0.6	0.7	0.4	1.0	1.2	1.4	1.5	1.7	1.8	2.0	2.1	2.2	2.3	2.4
Low Range	0.0	10.1	0.2	0.2	0.0	0.0	0.0	0.0	0.7	10.5	1.0	1.2	1.4	1.5	1.7	11.0	2.0	2.1	2.2	2.0	2.7
			•	``																	
Clover - Red	<u> </u>	as pe	r Acr	<u>e)</u>																	
High Range	0	55	67	87	114	148	187	231	279	329	382	435	488	541	592	641	685	726	761	790	812
Low Range	0	8	8	10	13	17	22	28	34	41	48	56	63	70	77	84	89	94	98	101	102
Clover - Red	l (Poun	ds pe	er 100	)0 Sqi	uare I	-eet)															
High Range	0.0	1.3	1.5	2.0	2.6	3.4	4.3	5.3	6.4	7.6	8.8	10.0	11.2	12.4	13.6	14.7	15.7	16.7	17.5	18.1	18.7
Low Range	0.0	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.3	1.4	1.6	1.8	1.9	2.0	2.2	2.2	2.3	2.3
Clover - Whi	te (Pou	inds i	per A	cre)																	
High Range		48	62	83	110	143	180	221	265	312	360	409	457	505	551	595	635	672	703	729	749
Low Range	0	40	5	8	11	143	20	221	31	38	44	51	57	63	69	75	80	85	89	92	94
Clover - Whi	-							1-0	101	100	1.1.4	101	101	100	100	1.0	100	100	100	102	101
			·			1	-í	I	la t	17.0	0.0		40 -	44.5	40 -	40 -	44.2	45.1	46.1	40 -	47.0
High Range	0.0	1.1	1.4	1.9	2.5	3.3	4.1	5.1	6.1	7.2	8.3	9.4	10.5	11.6	12.7	13.7	14.6	15.4	16.1	16.7	17.2
Low Range	0.0	0.1	0.1	0.2	0.3	0.3	0.5	0.6	0.7	0.9	1.0	1.2	1.3	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.1
Fescue - Fin	e Blad	e, Tu	rf Ty	pe (P	ounds	s per	Acre)														
High Range	0	17	24	35	48	63	81	100	120	141	162	184	206	227	247	267	284	300	314	325	333
Low Range	0	2	3	4	5	7	9	11	13	16	19	21	24	27	29	31	33	35	36	37	37
Fescue - Fin	e Blad	e. Tu	rf Tv	pe (P	_	sper	1000	Saua	are Fe										•		
High Range	0.0	0.4	0.6	0.8	1.1	1.5	1.9	2.3	2.7	3.2	3.7	4.2	4.7	5.2	5.7	6.1	6.5	6.9	7.2	7.5	7.7
		10.1	10.0	10.0	1.1.1	11.0	11.0	12.0	<u> </u>	10.2	10.1	17.4	17.1	10.4	0.7	10.1	10.0	10.0	11.4	1.0	11.1
Low Range	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.8	0.8	0.9

NOTE: Seed rates shown in **bold italics** may be inconsistent

#### Seed Rate Charts for Ag Drive (Continued)

Cup Setting	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Fescue K-31	(Pound	ls pei	r Acre	e)																	
High Range	0	26	28	34	44	56	71	88	106	126	146	167	188	208	228	247	264	279	292	301	308
Low Range	0	3	3	4	5	6	8	10	12	14	16	18	21	23	25	27	29	31	32	33	34
Fescue K-31	(Poun	ds pe	er 100	00 Sq	uare l	Feet)															
High Range	0.0	0.6	0.6	0.8	1.0	1.3	1.6	2.0	2.4	2.9	3.4	3.8	4.3	4.8	5.2	5.7	6.1	6.4	6.7	6.9	7.1
Low Range	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.7	0.8	0.8
0																					1
Kentucky Blu	In Gra	ss (F	Ound	te nar		)															
		21	1		34	46	62	80	101	123	146	170	193	216	237	257	274	288	299	206	308
High Range Low Range	0	3	21 3	25 3	4	40 5	6	8	10	123	146	16	193	210	237	257	274	30	32	306 33	308
Kentucky Blu		-	-	-	· ·	-	-	-	10	12	14	10	19	21	23	20	20	30	32	33	35
			-		-		1						1	140	6.4	15.0				17.0	174
High Range	0.0	0.5	0.5	0.6	0.8	1.1	1.4	1.8	2.3	2.8	3.4	3.9 0.4	4.4	4.9	5.4	5.9	6.3	6.6	6.9	7.0	7.1
Low Range	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.8
		-																			
Lovegrass -	Sand	Poun	ids p	er Acı	re)			_			_	_				-			-	-	
High Range	0	16	41	65	88	111	133	154	176	198	221	244	269	295	322	351	382	415	451	489	531
Low Range	0	1	4	7	10	13	16	19	23	26	29	32	35	39	42	45	48	51	54	56	59
Lovegrass -	Sand	Poun	ids p	er 100	00 Sq	uare	Feet)														
High Range	0.0	0.4	0.9	1.5	2.0	2.5	3.0	3.5	4.0	4.6	5.1	5.6	6.2	6.8	7.4	8.1	8.8	9.5	10.4	11.2	12.2
Low Range	0.0	0.0	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.0	1.1	1.2	1.2	1.3	1.4
Lovegrass -	Weepi	ng (F	ounc	ds per	Acre	)															
High Range	0	36	57	83	116	153	195	239	286	335	385	435	484	531	576	619	657	690	718	740	754
Low Range	0	5	7	9	13	17	23	29	35	42	50	57	64	71	78	84	90	95	99	102	103
Lovegrass -	Weepi	na (F	ounc	ds per	1000	) Sau	are F	eet)													
High Range	0.0	0.8	1.3	1.9	2.7	3.5	4.5	5.5	6.6	7.7	8.8	10.0	11.1	12.2	13.2	14.2	15.1	15.8	16.5	17.0	17.3
mun Kande																					
* *	0.0	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.1	1.3	1.5	1.6	1.8	1.9	2.1	2.2	2.3	2.3	2.4
Low Range		0.1	-	_	0.3	-	0.5	0.7	0.8	1.0	1.1	_	1.5	1.6	1.8	1.9	2.1	2.2	2.3	2.3	2.4
Low Range	0.0	I.	0.2	0.2	0.3	-	0.5	0.7	0.8	1.0	1.1	_	1.5	1.6	1.8	1.9	2.1	2.2	2.3	2.3	2.4
Low Range Orchard Gras	0.0 ss (Po	unds	0.2 per A	0.2 Acre)		0.4						1.3	•		1		•			•	
Low Range Orchard Gras High Range	0.0 ss (Po	unds 10	0.2 per <i>I</i>	0.2 Acre) 13	17	0.4	30	39	49	60	72	1.3 85	98	112	127	141	156	171	185	199	213
Low Range Orchard Gras High Range Low Range	0.0 <b>ss</b> (Po	unds 10 1	0.2 per <i>I</i> 11 1	0.2 Acre) 13 2	17 2	0.4 23 3	30 3					1.3	•		1		•			•	
Low Range Orchard Gras High Range Low Range Orchard Gras	0.0 <b>ss</b> (Po 0 0 <b>ss</b> (Po	unds 10 1 unds	0.2 per <i>A</i> 11 1 per 1	0.2 Acre) 13 2 1000 \$	17 2 Squar	0.4 23 3 re Fee	30 3 et)	39 4	49 5	60 7	72 8	1.3       85       10	98	112 13	127 14	141 16	156 17	171 19	185 20	199 22	213 23
Low Range Orchard Gras High Range Low Range Orchard Gras High Range	0.0 <b>ss</b> (Po 0 0 <b>ss</b> (Po 0.0	unds 10 1 unds 0.2	0.2 per <i>A</i> 11 1 per 1 0.2	0.2 Acre) 13 2 1000 \$ 0.3	17 2 Squar 0.4	0.4 23 3 •e Fee 0.5	30 3 et) 0.7	39 4 0.9	49 5 1.1	60 7 1.4	72 8 1.6	1.3 85 10 1.9	98 11 2.3	112 13 2.6	127 14 2.9	141 16 3.2	156 17 3.6	171 19 3.9	185 20 4.2	199 22 4.6	213 23 4.9
Low Range Orchard Gras High Range Low Range	0.0 <b>ss</b> (Po 0 0 <b>ss</b> (Po	unds 10 1 unds	0.2 per <i>A</i> 11 1 per 1	0.2 Acre) 13 2 1000 \$	17 2 Squar	0.4 23 3 re Fee	30 3 et)	39 4	49 5	60 7	72 8	1.3       85       10	98	112 13	127 14	141 16	156 17	171 19	185 20	199 22	213 23
Low Range Orchard Gras High Range Low Range Orchard Gras High Range Low Range	0.0 <b>ss</b> (Po 0 <b>ss</b> (Po 0.0 0.0	unds 10 1 unds 0.2 0.0	0.2 per A 11 1 per 1 0.2 0.0	0.2 Acre) 13 2 1000 \$ 0.3 0.0	17 2 Squar 0.4 0.0	0.4 23 3 •e Fee 0.5	30 3 et) 0.7	39 4 0.9	49 5 1.1	60 7 1.4	72 8 1.6	1.3 85 10 1.9	98 11 2.3	112 13 2.6	127 14 2.9	141 16 3.2	156 17 3.6	171 19 3.9	185 20 4.2	199 22 4.6	213 23 4.9
Low Range Orchard Gras High Range Low Range Orchard Gras High Range Low Range Rye Grass -	0.0 <b>ss</b> (Po 0 <b>ss</b> (Po 0.0 0.0	unds 10 1 unds 0.2 0.0	0.2 per <i>A</i> 11 1 per 1 0.2 0.0	0.2 Acre) 13 2 1000 \$ 0.3 0.0 per A	17 2 Squar 0.4 0.0	0.4 23 3 <b>re Fee</b> 0.5 0.1	30 3 et) 0.7 0.1	39 4 0.9 0.1	49 5 1.1	60 7 1.4	72 8 1.6	1.3 85 10 1.9	98 11 2.3	112 13 2.6	127 14 2.9	141 16 3.2	156 17 3.6	171 19 3.9	185 20 4.2	199 22 4.6	213 23 4.9
Low Range Orchard Gras High Range Low Range Orchard Gras High Range Low Range Rye Grass - A High Range	0.0 ss (Po 0 0 0 ss (Po 0.0 0.0 0.0 Annua 0	unds 10 1 unds 0.2 0.0 I (Por 24	0.2 per <i>A</i> 11 1 per 1 0.2 0.0 unds 34	0.2 Acre) 13 2 1000 \$ 0.3 0.0 Per A 47	17 2 Squar 0.4 0.0	0.4 23 3 <b>ce Fee</b> 0.5 0.1	30 3 et) 0.7 0.1	39 4 0.9 0.1 119	49 5 1.1 0.1	60 7 1.4 0.2	72 8 1.6 0.2 186	1.3 85 10 1.9 0.2 210	98 11 2.3 0.3 233	112 13 2.6 0.3 257	127 14 2.9 0.3 280	141 16 3.2 0.4 303	156 17 3.6	171 19 3.9 0.4 346	185 20 4.2 0.5 365	199 22 4.6 0.5 382	213 23 4.9
Low Range Orchard Gras High Range Low Range Orchard Gras High Range Low Range Rye Grass - A High Range Low Range	0.0 ss (Po 0 0 0 ss (Po 0.0 0.0 Annua 0 0 0	unds 10 1 unds 0.2 0.0 I (Pot 24 4	0.2 per / 11 1 per 1 0.2 0.0 unds 34 4	0.2 13 2 1000 \$ 0.3 0.0 Per A 47 5	17 2 Squar 0.4 0.0 0.4 0.0 0.0	0.4 23 3 <b>ce Fee</b> 0.5 0.1 80 8	30 3 et) 0.7 0.1 98 10	39 4 0.9 0.1 119 12	49 5 1.1 0.1	60 7 1.4 0.2	72 8 1.6 0.2	1.3 85 10 1.9 0.2	98 11 2.3 0.3	112 13 2.6 0.3	127 14 2.9 0.3	141 16 3.2 0.4	156 17 3.6 0.4	171 19 3.9 0.4	185 20 4.2 0.5	199 22 4.6 0.5	213 23 4.9 0.5
Low Range Orchard Gras High Range Low Range Orchard Gras High Range Low Range Rye Grass - A High Range Low Range	0.0 ss (Po 0 0 0 ss (Po 0.0 0.0 Annua 0 0 0	unds 10 1 unds 0.2 0.0 I (Pot 24 4	0.2 per / 11 1 per 1 0.2 0.0 unds 34 4	0.2 13 2 1000 \$ 0.3 0.0 Per A 47 5	17 2 Squar 0.4 0.0 0.4 0.0 0.0	0.4 23 3 <b>ce Fee</b> 0.5 0.1 80 8	30 3 et) 0.7 0.1 98 10	39 4 0.9 0.1 119 12	49 5 1.1 0.1	60 7 1.4 0.2	72 8 1.6 0.2 186	1.3 85 10 1.9 0.2 210	98 11 2.3 0.3 233	112 13 2.6 0.3 257	127 14 2.9 0.3 280	141 16 3.2 0.4 303	156 17 3.6 0.4 325	171 19 3.9 0.4 346	185 20 4.2 0.5 365	199 22 4.6 0.5 382	213 23 4.9 0.5 398
Low Range Orchard Gras High Range Low Range Orchard Gras High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range	0.0 ss (Po 0 0 0 ss (Po 0.0 0.0 Annua 0 0 0	unds 10 1 unds 0.2 0.0 I (Pot 24 4	0.2 per / 11 1 per 1 0.2 0.0 unds 34 4	0.2 13 2 1000 \$ 0.3 0.0 Per A 47 5	17 2 Squar 0.4 0.0 (0.4 0.0 (0.4 0.0 (0.4) (0.0) (0.4 (0.0) (0.4) (0.0) (0.4) (0.0) (0.4) (0.4) (0.0) (0.4)(	0.4 23 3 <b>ce Fee</b> 0.5 0.1 80 8	30 3 et) 0.7 0.1 98 10	39 4 0.9 0.1 119 12	49 5 1.1 0.1	60 7 1.4 0.2	72 8 1.6 0.2 186	1.3         85         10         1.9         0.2         210         22         4.8	98 11 2.3 0.3 233	112 13 2.6 0.3 257	127 14 2.9 0.3 280 30 6.4	141 16 3.2 0.4 303	156 17 3.6 0.4 325	171 19 3.9 0.4 346 39 7.9	185 20 4.2 0.5 365 41 8.4	199 22 4.6 0.5 382	213 23 4.9 0.5 398
Low Range Orchard Gras High Range Low Range Orchard Gras High Range Low Range Rye Grass - A High Range Low Range	0.0 ss (Po 0 0 ss (Po 0.0 0.0 0.0 Annua 0 0 0 Annua	unds 10 1 unds 0.2 0.0 1 (Por 24 4 I (Por	0.2 per <i>I</i> 11 1 per 1 0.2 0.0 unds 34 4 unds	0.2 13 2 1000 \$ 0.3 0.0 Per A 47 5 per 1	17 2 Squar 0.4 0.0 (0.4 0.0 (0.4 0.0 (0.4)	0.4 23 3 <b>re Fee</b> 0.5 0.1 80 8 8 Squar	30 3 et) 0.7 0.1 98 10 re Fee	39 4 0.9 0.1 119 12 et	49 5 1.1 0.1 140 14	60 7 1.4 0.2 163 17	72 8 1.6 0.2 186 19	1.3 85 10 1.9 0.2 210 22	98 11 2.3 0.3 233 25	112 13 2.6 0.3 257 28	127 14 2.9 0.3 280 30	141 16 3.2 0.4 303 33	156 17 3.6 0.4 325 36	171 19 3.9 0.4 346 39	185 20 4.2 0.5 365 41	199 22 4.6 0.5 382 44	213 23 4.9 0.5 398 46
Low Range Orchard Gras High Range Low Range Orchard Gras High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range	0.0 ss (Po 0 ss (Po 0.0 0.0 0.0 Annua 0 0 0 0 0 0 0 0 0 0 0 0 0	unds 10 1 unds 0.2 0.0 1 (Poi 24 4 1 (Poi 0.5	0.2 per / 11 0.2 0.0 unds 34 4 unds 0.8	0.2 13 2 1000 \$ 0.3 0.0 0.3 0.0 Per A 47 5 per 1 1.1	17 2 Squar 0.4 0.0 (0.4 0.0 (0.4 0.0 (0.4) (0.0) (0.4 (0.0) (0.4) (0.0) (0.4) (0.0) (0.4) (0.4) (0.0) (0.4)(	0.4 23 3 <b>re Fee</b> 0.5 0.1 80 8 8 Squar 1.8	30 3 et) 0.7 0.1 98 10 re Fee 2.3	39 4 0.9 0.1 119 12 et) 2.7	49 5 1.1 0.1 140 14 3.2	60 7 1.4 0.2 163 17 3.7	72 8 1.6 0.2 186 19 4.3	1.3         85         10         1.9         0.2         210         22         4.8	98 11 2.3 0.3 233 25 5.4	112 13 2.6 0.3 257 28 5.9	127 14 2.9 0.3 280 30 6.4	141 16 3.2 0.4 303 33 7.0	156 17 3.6 0.4 325 36 7.5	171 19 3.9 0.4 346 39 7.9	185 20 4.2 0.5 365 41 8.4	199 22 4.6 0.5 382 44 8.8	213 23 4.9 0.5 398 46 9.1
Low Range Orchard Gras High Range Dorchard Gras High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0	unds 10 1 unds 0.2 0.0 1 (Por 24 4 1 (Por 0.5 0.1	0.2 per / 11 1 per 1 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.2 13 2 1000 \$ 0.3 0.0 0.3 0.0 0.7 0.7 1.1 0.1	17 2 Squar 0.4 0.0 (1.4 0.0 (1.4 0.2	0.4 23 3 e Fee 0.5 0.1 80 8 8 Squar 1.8 0.2	30 3 et) 0.7 0.1 98 10 re Fee 2.3	39 4 0.9 0.1 119 12 et) 2.7	49 5 1.1 0.1 140 14 3.2	60 7 1.4 0.2 163 17 3.7	72 8 1.6 0.2 186 19 4.3	1.3         85         10         1.9         0.2         210         22         4.8	98 11 2.3 0.3 233 25 5.4	112 13 2.6 0.3 257 28 5.9	127 14 2.9 0.3 280 30 6.4	141 16 3.2 0.4 303 33 7.0	156 17 3.6 0.4 325 36 7.5	171 19 3.9 0.4 346 39 7.9	185 20 4.2 0.5 365 41 8.4	199 22 4.6 0.5 382 44 8.8	213 23 4.9 0.5 398 46 9.1
Low Range Orchard Gras High Range Low Range Orchard Gras High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range Low Range	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0	unds 10 1 unds 0.2 0.0 1 (Por 24 4 1 (Por 0.5 0.1	0.2 per / 11 1 per 1 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.2 13 2 1000 \$ 0.3 0.0 0.3 0.0 0.7 0.7 1.1 0.1	17 2 Squar 0.4 0.0 (1.4 0.0 (1.4 0.2	0.4 23 3 e Fee 0.5 0.1 80 8 8 Squar 1.8 0.2	30 3 et) 0.7 0.1 98 10 re Fee 2.3	39 4 0.9 0.1 119 12 et) 2.7	49 5 1.1 0.1 140 14 3.2	60 7 1.4 0.2 163 17 3.7	72 8 1.6 0.2 186 19 4.3	1.3         85         10         1.9         0.2         210         22         4.8	98 11 2.3 0.3 233 25 5.4	112 13 2.6 0.3 257 28 5.9	127 14 2.9 0.3 280 30 6.4	141 16 3.2 0.4 303 33 7.0	156 17 3.6 0.4 325 36 7.5	171 19 3.9 0.4 346 39 7.9	185 20 4.2 0.5 365 41 8.4	199 22 4.6 0.5 382 44 8.8	213 23 4.9 0.5 398 46 9.1
Low Range Orchard Gras High Range Low Range Orchard Gras High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range Low Range	0.0 <b>ss</b> (Po 0 <b>ss</b> (Po 0.0 0.0 <b>Annua</b> 0 0 0 0 0 0 0 0 0 0 0 0 0	unds 10 1 unds 0.2 0.0 1 (Por 24 4 1 (Por 0.5 0.1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.2 per / 11 per 1 0.2 0.0 unds 34 4 unds 0.8 0.1 Poun	0.2 13 2 1000 \$ 0.3 0.0 0.3 0.0 0.7 47 5 per A 47 5 per 1 1.1 0.1 ds pe	17 2 Squar 0.4 0.0 62 7 000 \$ 1.4 0.2 r Acre	0.4 23 3 e Fee 0.5 0.1 80 8 80 8 8 6 quar 1.8 0.2	30 3 et) 0.7 0.1 98 10 e Fee 2.3 0.2	39 4 0.9 0.1 119 12 et) 2.7 0.3	49 5 1.1 0.1 140 14 3.2 0.3	60 7 1.4 0.2 163 17 3.7 0.4	72 8 1.6 0.2 186 19 4.3 0.4	1.3         85         10         1.9         0.2         210         22         4.8         0.5	98 11 2.3 0.3 233 25 5.4 0.6	112 13 2.6 0.3 257 28 5.9 0.6	127 14 2.9 0.3 280 30 6.4 0.7	141 16 3.2 0.4 303 33 7.0 0.8	156           17           3.6           0.4           325           36           7.5           0.8	171 19 3.9 0.4 346 39 7.9 0.9	185 20 4.2 0.5 365 41 8.4 0.9	199 22 4.6 0.5 382 44 8.8 1.0	213 23 4.9 0.5 398 46 9.1 1.1
Low Range Orchard Gras High Range Low Range Orchard Gras High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range Low Range Low Range Low Range Low Range Low Range Low Range	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0	unds 10 1 unds 0.2 0.0 1 (Por 24 4 1 (Por 0.5 0.1 1 (Por 0.5 0.1 1 (Por 0.5 0.1 1 (Por 0.5 0.1 1 (Por 0.5 0.1 1 (Por 0.5 0.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.2 per <i>I</i> 11 1 1 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.2 13 2 000 \$ 0.3 0.0 0.3 0.0 0.3 0.0 0.7 1.1 0.1 0.1 0.1 0.1 0.1 0.1 0.3 0.1 0.1 0.1 0.1 0.1 0.3 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	17 2 Squar 0.4 0.0 62 7 000 \$ 1.4 0.2 r Acre 72 8	0.4 23 3 e Fee 0.5 0.1 80 8 80 8 8 8 8 8 8 8 8 9 9 9 10	30 3 et) 0.7 0.1 98 10 e Fee 2.3 0.2	39 4 0.9 0.1 119 12 21 2.7 0.3 145 16	49 5 1.1 0.1 140 14 3.2 0.3	60 7 1.4 0.2 163 17 3.7 0.4	72 8 1.6 0.2 186 19 4.3 0.4 232	1.3         85         10         1.9         0.2         210         22         4.8         0.5         262	98 11 2.3 0.3 25 5.4 0.6 291	112 13 2.6 0.3 257 28 5.9 0.6 319	127 14 2.9 0.3 280 30 6.4 0.7 346	141 16 3.2 0.4 303 33 7.0 0.8 370	156 17 3.6 0.4 325 36 7.5 0.8 392	171 19 3.9 0.4 346 39 7.9 0.9	185 20 4.2 0.5 365 41 8.4 0.9	199 22 4.6 0.5 382 44 8.8 1.0	213 23 4.9 0.5 398 46 9.1 1.1
Low Range Orchard Gras High Range Low Range Orchard Gras High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range Low Range Rye Grass - I	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0	unds 10 1 unds 0.2 0.0 1 (Por 24 4 1 (Por 0.5 0.1 1 (Por 0.5 0.1 1 (Por 0.5 0.1 1 (Por 0.5 0.1 1 (Por 0.5 0.1 1 (Por 0.5 0.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.2 per <i>I</i> 11 1 1 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.2 13 2 000 \$ 0.3 0.0 0.3 0.0 0.3 0.0 0.7 1.1 0.1 0.1 0.1 0.1 0.1 0.1 0.3 0.1 0.1 0.1 0.1 0.1 0.3 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	17 2 Squar 0.4 0.0 62 7 000 \$ 1.4 0.2 r Acre 72 8	0.4 23 3 e Fee 0.5 0.1 80 8 80 8 8 8 8 8 8 8 8 9 9 9 10	30 3 et) 0.7 0.1 98 10 e Fee 2.3 0.2	39 4 0.9 0.1 119 12 2.7 0.3 145 16 <b>-eet</b> )	49 5 1.1 0.1 140 14 3.2 0.3 173 19	60 7 1.4 0.2 163 17 3.7 0.4 203 23	72 8 1.6 0.2 186 19 4.3 0.4 232 26	1.3         85         10         1.9         0.2         210         22         4.8         0.5         262	98 11 2.3 0.3 25 5.4 0.6 291 33	112 13 2.6 0.3 257 28 5.9 0.6 319 36	127 14 2.9 0.3 280 30 6.4 0.7 346 39	141 16 3.2 0.4 303 33 7.0 0.8 370 42	156 17 3.6 0.4 325 36 7.5 0.8 392	171 19 3.9 0.4 346 39 7.9 0.9	185 20 4.2 0.5 365 41 8.4 0.9	199 22 4.6 0.5 382 44 8.8 1.0	213 23 4.9 0.5 398 46 9.1 1.1 1.1
Low Range Orchard Gras High Range Low Range Orchard Gras High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range Low Range Rye Grass - I High Range	0.0       ss (Po       0       0       0.0       ss (Po       0.0       0.0       0.0       0	unds 10 1 unds 0.2 0.0 24 4 1 (Poi 0.5 0.1 1 (Poi 0.5 0.1 1 (Poi 0.5 0.1 1 (Poi 0.5 0.1 1 (Poi 0.5 0.1 1 (Poi 0.5 0.1 0.5 0.5 0.1 0.5 0.1 0.5 0.1 0.5 0.5 0.1 0.5 0.5 0.5 0.5 0.1 0.5 0.5 0.1 0.5 0.5 0.5 0.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.2 per <i>I</i> 11 1 0.2 0.0 0.0	0.2 13 2 1000 \$ 0.3 0.0 0.3 0.1 0.1 0.1 0.1 0.1 0.3 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	17 2 Squar 0.4 0.0 62 7 000 S 1.4 0.2 r Acre) 62 7 000 S 1.4 0.2 r 7 2 8 r 100 r 1.7	0.4 23 3 e Fee 0.5 0.1 80 8 80 8 8 8 8 8 8 8 8 9 9 9 9 1.8 0.2 9 9 9 4 10 0 Squ 2.2	30 33 et) 0.7 0.1 98 10 ee Fee 2.3 0.2 119 13 Jare F	39 4 0.9 0.1 119 12 2.7 0.3 145 16 <b>-eet)</b> 3.3	49 5 1.1 0.1 140 14 3.2 0.3 173 19 4.0	60 7 1.4 0.2 163 17 3.7 0.4 203 23 4.7	72 8 1.6 0.2 186 19 4.3 0.4 232 26 5.3	1.3         85         10         1.9         0.2         210         22         4.8         0.5         262         29         6.0	98 11 2.3 0.3 25 5.4 0.6 291 33 6.7	112 13 2.6 0.3 257 28 5.9 0.6 319 36 7.3	127 14 2.9 0.3 280 30 6.4 0.7 346 39 7.9	141 16 3.2 0.4 303 33 7.0 0.8 370 42 8.5	156 17 3.6 0.4 325 36 7.5 0.8 392 44 9.0	171 19 3.9 0.4 346 39 7.9 0.9 4111 46	185 20 4.2 0.5 365 41 8.4 0.9 426 48	199 22 4.6 0.5 382 44 8.8 1.0 437 50	213 23 4.9 0.5 398 46 9.1 1.1 1.1 443 51
Low Range Orchard Gras High Range Low Range Orchard Gras High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range Low Range Rye Grass - I High Range	0.0           ss (Po           0           0           ss (Po           0.0           ss (Po           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0           0           0           0           0           0           0           0	unds 10 1 unds 0.2 0.0 24 4 1 (Poi 0.5 0.1 nial (I 27 3 nial (I	0.2 per / 11 1 0.2 0.0 0.2 0.2	0.2 13 2 1000 \$ 0.3 0.0 0.3 0.0 0.0 0.3 0.0 0.1 1.1 0.1 0.1 0.1 0.1 0.1	17 2 Squar 0.4 0.0 62 7 000 S 1.4 0.2 r Acre 72 8 r 100	0.4 23 3 e Fee 0.5 0.1 80 8 80 8 8 8 8 8 8 8 8 8 8 9 9 4 10 0 Squ	30 33 et) 0.7 0.1 0.1 98 10 ee Fee 2.3 0.2 119 13 Jare F	39 4 0.9 0.1 119 12 et) 2.7 0.3 145 16 eeet)	49 5 1.1 0.1 140 14 3.2 0.3 173 19	60 7 1.4 0.2 163 17 3.7 0.4 203 23	72 8 1.6 0.2 186 19 4.3 0.4 232 26	1.3         85         10         1.9         0.2         210         22         4.8         0.5         262         29	98 11 2.3 0.3 25 5.4 0.6 291 33	112 13 2.6 0.3 257 28 5.9 0.6 319 36	127 14 2.9 0.3 280 30 6.4 0.7 346 39	141 16 3.2 0.4 303 33 7.0 0.8 370 42	156 17 3.6 0.4 325 36 7.5 0.8 392 44	171 19 3.9 0.4 346 39 7.9 0.9 411 46	185           20           4.2           0.5           365           41           8.4           0.9           426           48	199 22 4.6 0.5 382 44 8.8 1.0 437 50	213 23 4.9 0.5 398 46 9.1 1.1 1.1
Low Range Orchard Gras High Range Low Range Orchard Gras High Range Low Range Rye Grass - A High Range Low Range Rye Grass - I High Range Low Range	0.0         ss (Po         0         0         ss (Po         0.0         ss (Po         0.0	unds 10 1 unds 0.2 0.0 24 4 1 (Poi 24 4 1 (Poi 0.5 0.1 1 1 1 0.6 0.1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.2 per / 11 1 0.2 0.0 0.2 0.2	0.2 13 2 1000 \$ 0.3 0.0 0.3 0.0 0.7 0.7 0.7 0.7 0.7 0.7 0.7	17 2 Squar 0.4 0.0 62 7 000 S 1.4 0.2 r Acre) 62 7 000 S 1.4 0.2 r 7 2 8 r 100 r 1.7	0.4 23 3 e Fee 0.5 0.1 80 8 80 8 8 8 8 8 8 8 8 9 9 9 9 1.8 0.2 9 9 9 4 10 0 Squ 2.2	30 33 et) 0.7 0.1 98 10 ee Fee 2.3 0.2 119 13 Jare F	39 4 0.9 0.1 119 12 2.7 0.3 145 16 <b>-eet)</b> 3.3	49 5 1.1 0.1 140 14 3.2 0.3 173 19 4.0	60 7 1.4 0.2 163 17 3.7 0.4 203 23 4.7	72 8 1.6 0.2 186 19 4.3 0.4 232 26 5.3	1.3         85         10         1.9         0.2         210         22         4.8         0.5         262         29         6.0	98 11 2.3 0.3 25 5.4 0.6 291 33 6.7	112 13 2.6 0.3 257 28 5.9 0.6 319 36 7.3	127 14 2.9 0.3 280 30 6.4 0.7 346 39 7.9	141 16 3.2 0.4 303 33 7.0 0.8 370 42 8.5	156 17 3.6 0.4 325 36 7.5 0.8 392 44 9.0	171 19 3.9 0.4 346 39 7.9 0.9 4111 46	185 20 4.2 0.5 365 41 8.4 0.9 426 48	199 22 4.6 0.5 382 44 8.8 1.0 437 50	213 23 4.9 0.5 398 46 9.1 1.1 1.1 443 51
Low Range Orchard Gras High Range Low Range Orchard Gras High Range Low Range Rye Grass - A High Range Low Range Rye Grass - I High Range Low Range Sudan Grass	0.0           ss (Po           0           ss (Po           0           ss (Po           0.0           Annua           0           Annua           0.0           Pereni           0           0.0           Pereni           0.0           s (Pour	unds 10 1 0.2 0.0 1 (Poo 24 4 4 1 (Poo 0.5 0.1 1 (Poo 0.5 0.1 1 (Poo 0.5 0.1 1 (Poo 0.5 0.1 1 (Poo 0.5 0.1 1 (Poo 0.5 0.1 1 (Poo 0.5 0.1 1 (Poo 0.5 0.1 1 (Poo 0.5 0.5 0.1 1 (Poo 0.5 0.5 0.1 1 (Poo 0.5 0.5 0.1 1 (Poo 0.5 0.1 1 (Poo 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.2 per / 11 1 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.2 13 2 000 \$ 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0	17 2 Squar 0.4 0.0 62 7 000 S 1.4 0.2 r Acre 72 8 r Acre 72 8 r 100 1.7 0.2	0.4 23 3 e Fec 0.5 0.1 80 8 8 8 8 8 8 8 8 8 8 8 8 94 10 0 94 10 0 94 10 0 94 10 0 94 10 0 10 0 10 10 10 10 10 10	30 3 3 0.7 0.1 0.1 98 10 re Fee 2.3 0.2 119 13 147 8 2.7 0.3	39 4 0.9 0.1 119 12 2.7 0.3 145 16 <b>-</b> <b>eet</b> ) 3.3 0.4	49 5 1.1 0.1 140 14 3.2 0.3 173 19 4.0 0.4	60 7 1.4 0.2 163 17 3.7 0.4 203 23 4.7 0.5	72         8         1.6         0.2         186         19         4.3         0.4         232         26         5.3         0.6	1.3         85         10         1.9         0.2         210         22         4.8         0.5         262         29         6.0         0.7	98 11 2.3 0.3 25 5.4 0.6 291 33 6.7 0.7	112 13 2.6 0.3 257 28 5.9 0.6 319 36 7.3 0.8	127 14 2.9 0.3 280 30 6.4 0.7 346 39 7.9 0.9	141 16 3.2 0.4 303 33 7.0 0.8 370 42 8.5 1.0	156 17 3.6 0.4 325 36 7.5 0.8 392 44 9.0 1.0	171 19 3.9 0.4 346 39 7.9 0.9 411 46 9.4 1.1	185         20         4.2         0.5         365         41         8.4         0.9         426         48         9.8         1.1	199 22 4.6 0.5 382 44 8.8 1.0 437 50 10.0 1.1	213 23 4.9 0.5 398 46 9.1 1.1 1.1 10.2 1.2
Low Range Orchard Gras High Range Low Range Orchard Gras High Range Low Range Rye Grass - A High Range Low Range Rye Grass - I High Range Low Range Rye Grass - I High Range Low Range Rye Grass - I High Range Low Range Sudan Grass High Range	0.0         ss (Po         0         0         ss (Po         0.0         8s (Po         0.0         Annua         0         0.0         Annua         0.0	unds 10 1 0.2 0.0 1 (Poo 24 4 1 (Poo 0.5 0.1 1 27 3 1 1 0.6 0.1 1 1 0.2 24 4 3 1 1 1 1 1 1 1 1 1 1 1 1 1	0.2 per / 11 1 0.2 0.0 0.2 0.0 0.2 0.0 0.2 0.0 0.2 0.0 0.2 0.0 0.2 0.0 0.2 0.0 0.2 0.0 0.2 0.0 0.2 0.0 0.2 0.0 0.2 0.0 0.2 0.0 0.2 0.0 0.2 0.0 0.2 0.0 0.0	0.2 13 2 000 \$ 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0	17 2 Squar 0.4 0.0 62 7 000 S 1.4 0.2 r Acre) 62 7 000 S 1.4 0.2 r 7 000 S 1.4 0.2 r 1.4 0.2 r 1.7 0.2	0.4 23 3 e Fec 0.5 0.1 0.5 0.1 80 8 80 8 8 8 8 8 8 8 8 8 8 94 10 0 94 10 0 94 10 0.2 94 10 0.2 10 10 10 10 10 10 10 10 10 10	30 3 3 0.7 0.1 0.7 0.1 0.7 0.1 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	39 4 0.9 0.1 119 12 et) 2.7 0.3 145 16 - eet) 3.3 0.4	49 5 1.1 0.1 140 14 3.2 0.3 19 4.0 0.4 255	60 7 1.4 0.2 163 17 3.7 0.4 203 23 4.7 0.5 302	72 8 1.6 0.2 186 19 4.3 0.4 232 26 5.3 0.6	1.3         85         10         1.9         0.2         210         22         4.8         0.5         262         29         6.0         0.7         398	98 11 2.3 0.3 25 5.4 0.6 291 33 6.7 0.7	112 13 2.6 0.3 257 28 5.9 0.6 319 36 7.3 0.8	127 14 2.9 0.3 280 30 6.4 0.7 346 39 7.9 0.9	141 16 3.2 0.4 303 33 7.0 0.8 370 42 8.5 1.0	156 17 3.6 0.4 325 36 7.5 0.8 392 44 9.0 1.0	171 19 3.9 0.4 346 39 7.9 0.9 411 46 9.4 1.1	185           20           4.2           0.5           365           41           8.4           0.9           426           48           9.8           1.1           710	199 22 4.6 0.5 382 44 8.8 1.0 437 50 10.0 1.1	213 23 4.9 0.5 398 46 9.1 1.1 1.1 10.2 1.2 769
Low Range Orchard Gras High Range Low Range Orchard Gras High Range Low Range Rye Grass - A High Range Low Range Rye Grass - I High Range Low Range Bye Grass - I High Range Low Range Comparison of the	0.0         ss (Po         0         0         ss (Po         0.0         ss (Po         0.0         0.0         0	unds 10 1 unds 0.2 0.0 24 4 1 (Poi 24 4 1 (Poi 0.5 0.1 1 1 (Poi 0.5 0.1 1 1 0.6 0.1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.2 per <i>A</i> 11 1 0.2 0.0 0.0	0.2       13       2       1000 \$       0.3       0.0       per A       47       5       per 1       1.1       0.1       53       6       ds pe       1.2       0.1       573       6       72       9	17         2         Squar         0.4         0.0         62         7         000 S         1.4         0.2         r         Acre         72         8         r         1.7         0.2	0.4 23 3 e Fee 0.5 0.1 80 8 80 8 8 8 8 8 8 8 8 8 8 94 10 0 5 94 10 0 5 0.2 9 9 4 10 0 10 10 10 10 10 10 10 10	30 33 et) 0.7 0.1 98 10 re Fee 2.3 0.2 119 13 Jare F 2.7 0.3	39 4 0.9 0.1 119 12 2.7 0.3 145 16 <b>-</b> <b>eet</b> ) 3.3 0.4	49 5 1.1 0.1 140 14 3.2 0.3 173 19 4.0 0.4	60 7 1.4 0.2 163 17 3.7 0.4 203 23 4.7 0.5	72         8         1.6         0.2         186         19         4.3         0.4         232         26         5.3         0.6	1.3         85         10         1.9         0.2         210         22         4.8         0.5         262         29         6.0         0.7	98 11 2.3 0.3 25 5.4 0.6 291 33 6.7 0.7	112 13 2.6 0.3 257 28 5.9 0.6 319 36 7.3 0.8	127 14 2.9 0.3 280 30 6.4 0.7 346 39 7.9 0.9	141 16 3.2 0.4 303 33 7.0 0.8 370 42 8.5 1.0	156 17 3.6 0.4 325 36 7.5 0.8 392 44 9.0 1.0	171 19 3.9 0.4 346 39 7.9 0.9 411 46 9.4 1.1	185         20         4.2         0.5         365         41         8.4         0.9         426         48         9.8         1.1	199           22           4.6           0.5           382           44           8.8           1.0           437           50           10.0           1.1	213 23 4.9 0.5 398 46 9.1 1.1 1.1 10.2 1.2
Low Range Orchard Gras High Range Low Range Orchard Gras High Range Low Range Rye Grass - A High Range Low Range Rye Grass - I High Range Low Range Rye Grass - I High Range Low Range Rye Grass - I High Range Low Range Sudan Grass High Range Low Range Sudan Grass	0.0         ss (Po         0         ss (Po         0         ss (Po         0.0         Annua         0         Annua         0         0.0         Pereni         0         0.0         Pereni         0.0         s (Pour         0         s (Pour	unds 10 1 1 0.2 0.0 1 (Poo 24 4 1 (Poo 0.5 0.1 1 (Poo 0.5 0.1 1 (Poo 0.5 0.1 1 1 0.2 24 4 1 (Poo 0.5 0.1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.2 per / 11 1 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.2 13 2 000 \$ 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0	17         2         Squar         0.4         0.0         62         7         000 S         1.4         0.2         r         Acre         72         8         r         1.7         0.2	0.4 23 3 e Fec 0.5 0.1 80 8 8 8 8 8 8 8 8 8 8 8 8 8	30 3 3 0.7 0.1 0.1 0.7 0.1 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	39 4 0.9 0.1 119 12 20 2.7 0.3 145 16 <b>-eet)</b> 3.3 0.4 2211 22	49 5 1.1 0.1 140 14 3.2 0.3 173 19 4.0 0.4 2255 28	60 7 1.4 0.2 163 17 3.7 0.4 203 23 4.7 0.5 302 34	72         8         1.6         0.2         186         19         4.3         0.4         232         26         5.3         0.6         349         40	1.3         85         10         1.9         0.2         210         22         4.8         0.5         262         29         6.0         0.7         398         47	98 11 2.3 0.3 25 5.4 0.6 291 33 6.7 0.7 448 54	112 13 2.6 0.3 257 28 5.9 0.6 319 36 7.3 0.8 496 60	127 14 2.9 0.3 280 30 6.4 0.7 33 6.4 0.7 3346 39 7.9 0.9 544 67	141 16 3.2 0.4 303 33 7.0 0.8 370 42 8.5 1.0 590 73	156         17         3.6         0.4         325         36         7.5         0.8         392         44         9.0         1.0         633         78	171 19 3.9 0.4 346 39 7.9 0.9 411 46 9.4 1.1	185           20           4.2           0.5           365           41           8.4           0.9           426           48           9.8           1.1           710           87	199           22           4.6           0.5           382           44           8.8           1.0           437           50           10.0           1.1           742           89	213 23 4.9 0.5 398 46 9.1 1.1 10.2 1.2 769 91
Low Range Orchard Gras High Range Low Range Orchard Gras High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range Low Range	0.0         ss (Po         0         0         ss (Po         0.0         ss (Po         0.0         0.0         0	unds 10 1 unds 0.2 0.0 24 4 1 (Poi 24 4 1 (Poi 0.5 0.1 1 1 (Poi 0.5 0.1 1 1 0.6 0.1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.2 per <i>A</i> 11 1 0.2 0.0 0.0	0.2       13       2       1000 \$       0.3       0.0       per A       47       5       per 1       1.1       0.1       53       6       ds pe       1.2       0.1       573       6       72       9	17         2         Squar         0.4         0.0         62         7         000 S         1.4         0.2         r         Acre         72         8         r         1.7         0.2	0.4 23 3 e Fee 0.5 0.1 80 8 80 8 8 8 8 8 8 8 8 8 8 94 10 0 5 94 10 0 5 0.2 9 9 4 10 0 10 10 10 10 10 10 10 10	30 33 et) 0.7 0.1 10 re Fee 2.3 0.2 119 13 Jare F 2.7 0.3	39 4 0.9 0.1 119 12 et) 2.7 0.3 145 16 - eet) 3.3 0.4	49 5 1.1 0.1 140 14 3.2 0.3 19 4.0 0.4 255	60 7 1.4 0.2 163 17 3.7 0.4 203 23 4.7 0.5 302	72 8 1.6 0.2 186 19 4.3 0.4 232 26 5.3 0.6	1.3         85         10         1.9         0.2         210         22         4.8         0.5         262         29         6.0         0.7         398	98 11 2.3 0.3 25 5.4 0.6 291 33 6.7 0.7	112 13 2.6 0.3 257 28 5.9 0.6 319 36 7.3 0.8	127 14 2.9 0.3 280 30 6.4 0.7 346 39 7.9 0.9	141 16 3.2 0.4 303 33 7.0 0.8 370 42 8.5 1.0	156 17 3.6 0.4 325 36 7.5 0.8 392 44 9.0 1.0	171 19 3.9 0.4 346 39 7.9 0.9 411 46 9.4 1.1	185           20           4.2           0.5           365           41           8.4           0.9           426           48           9.8           1.1           710	199 22 4.6 0.5 382 44 8.8 1.0 437 50 10.0 1.1	213 23 4.9 0.5 398 46 9.1 1.1 1.1 10.2 1.2 769

#### Seed Rate Charts for Ag Drive (Continued)

					<u> </u>			•													
Cup Setting	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Vetch (Pounds	s per <i>i</i>	Acre)																			
High Range	0	45	59	78	103	132	164	200	237	276	316	356	395	433	469	501	530	555	575	589	596
Low Range	0	1	5	8	12	16	20	24	27	31	35	39	43	48	52	56	60	65	69	73	78
Vetch (Pounds	s per	1000	Squa	are Fe	et)																
High Range	0.0	1.0	1.3	1.8	2.4	3.0	3.8	4.6	5.4	6.3	7.3	8.2	9.1	9.9	10.8	11.5	12.2	12.7	13.2	13.5	13.7
Low Range	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8
Wheatgrass -	Cres	ted (	Poun	ds pe	r Acre	e)															
High Range	0	23	23	26	32	41	51	63	76	90	105	121	137	152	167	181	194	206	215	223	228
Low Range	0	2	3	3	4	5	6	7	9	10	11	13	15	17	19	21	23	25	28	31	33
Wheatgrass -	Cres	ted (	Poun	ds pe	r 100	0 Squ	uare F	Feet)													
High Range	0.0	0.5	0.5	0.6	0.7	0.9	1.2	1.4	1.7	2.1	2.4	2.8	3.1	3.5	3.8	4.2	4.5	4.7	4.9	5.1	5.2
Low Range	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8
Wheatgrass -	West	tern (	Poun	ds pe	r Acr	e)															
High Range	0	14	16	19	25	33	43	55	68	82	97	112	126	140	153	165	174	182	186	188	190
Low Range	0	1	2	2	3	4	6	7	9	11	12	14	16	17	19	21	22	23	24	25	26
Wheatgrass -	West	tern (	Poun	ds pe	r 100	0 Sq	uare l	Feet)													
High Range	0.0	0.3	0.4	0.4	0.6	0.8	1.0	1.3	1.6	1.9	2.2	2.6	2.9	3.2	3.5	3.8	4.0	4.2	4.3	4.3	4.4
Low Range	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6

For large, fluffy seeds change Seed Broadcasting Handle to LARGE SEEDS BROADCAST (refer to "**Seed Broadcasting System**" on page 18 for detailed instructions).

To prevent bridging in the seed box, the Agitator Option may also be used.

To prevent bridging in the feed cups, be sure to use clean seeds that are free from stems and leaves.

Follow instructions 3 through 6 on page 20 to calibrate seed rates, using the Brome Grass Seed rates listed below as a guide.

#### **Brome Grass Seed Rate Chart**

<b>Cup Setting</b>	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Brome (Pound	ls Per	Acre	)																		
High Range	0.0	2.0	1.0	0.6	0.7	1.3	2.4	4.0	6.1	8.6	11.6	15.0	18.8	23.0	27.6	32.6	38.0	43.7	49.7	56.1	62.8
Low Range	0.0	0.2	0.1	0.1	0.1	0.1	0.3	0.4	0.7	0.9	1.3	1.6	2.1	2.5	3.0	3.6	4.2	4.8	5.4	6.1	6.9
Brome (Pound	ls Per	1000	) Squ	are F	eet)																
High Range	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.3	1.4
Low Range	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2

NOTE: Seed rates for Brome Grass may be inconsistent, especially at lower setting. It is not recommended to use settings under 50.

#### Metric Seed Rate Charts for Ag Drive

Cup Setting	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Alfalfa (Kilog				-	20	23	50	55	40	45	50	55	00	05	10	15	00	05	30	55	100
High Range			51	76	107	144	196	232	202	224	200	146	504	562	610	676	720	702	022	070	010
Low Range	0	33	4	9	107	144	186 25	31	282 37	334 43	390 49	446 55	504 61	562 67	619 72	77	730 81	783 84	832 87	878 89	919 89
· ·	-	or 10	1.	1-		-	20	31	31	43	49	100		107	12	111	01	04	01	09	09
Alfalfa (Kilog	· · ·	1	1		1	- <u> </u>	40.0			00.4		44.0	50.4	150.0		07.0	70.0	70.0		07.0	
High Range	0	3.3	5.1	7.6	10.7	14.4	18.6 2.5	23.2 3.1	28.2 3.7	33.4 4.3	38.9 4.9	44.6 5.5	50.4 6.1	56.2 6.7	61.9 7.2	67.6 7.7	73.0 8.1	78.3 8.4	83.2 8.7	87.8 8.8	91.9
Low Range	10	0.1	0.4	0.9	1.4	1.9	2.5	3.1	3.7	4.3	4.9	5.5	6.1	0.7	1.Z	1.1	8.1	8.4	8.7	8.8	8.9
	(1.4.)				、 、																
Bent Grass			-	-		-				-	-	-		-			_	-			
High Range	0	22	37	54	74	95	118	141	166	191	217	242	268	293	317	340	362	382	400	416	429
Low Range	0	4	5	6	8	10	12	15	18	21	25	28	31	34	38	40	43	45	47	49	50
Bent Grass		-	1	-	-	1	-			-	1	-		1	-			-	-	1	
High Range	0	2.2	3.7	5.4	7.4	9.5	11.8	14.1	16.6	19.1	21.7	24.2	26.8	29.3	31.7	34.0	36.2	38.2	40.0	41.6	42.9
Low Range	0	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.8	2.1	2.5	2.8	3.1	3.4	3.7	4.0	4.3	4.5	4.7	4.9	5.0
Bermuda (Ki	logram	s per	Hecta	are)																	
High Range	0	18	40	61	84	107	131	155	180	205	231	258	285	313	341	370	399	429	460	491	523
Low Range	0	6	7	9	11	13	16	19	23	26	30	34	38	42	45	49	52	56	58	61	63
<b>Bermuda</b> (K	ilogram	is per	1000	Squa	are M	leters	)														
High Range	0	1.8	4.0	6.1	8.4	10.7	13.1	15.5	18.0	20.5	23.1	25.8	28.5	31.3	34.1	37.0	39.9	42.9	46.0	49.1	52.3
Low Range	0	0.6	0.7	0.9	1.1	1.3	1.6	1.9	2.3	2.6	3.0	3.4	3.8	4.2	4.5	4.9	5.2	5.5	5.8	6.1	6.3
Buffalo Gras	ss (Kilo	gram	s per	Hecta	are)																
High Range	lo	19	26	36	48	63	79	96	115	134	153	172	191	209	226	241	254	265	274	279	281
_ow Range	0	2	3	4	5	7	9	11	13	15	18	20	22	24	26	28	30	31	32	32	33
Buffalo Gras	ss (Kilo	gram	s per	1000	Squa	are M	eters	)													
High Range	0	1.9	2.6	3.6	4.8	6.2	7.9	9.6	11.5	13.4	15.3	17.2	19.1	20.9	22.6	24.1	25.4	26.5	27.4	27.9	28.
_ow Range	0		-				0.9	1.1	1.3	1.5	1.8	2.0	2.2	2.4	2.6	2.8	2.9	3.1		3.2	3.3
	10	0.2	0.3	0.4	0.5	0.7	10.9	11.1		11.0	11.0	12.0	12.2	2.4	12.0	12.0	2.3	13.1	3.2	13.Z	13.3
Low Range	10	0.2	0.3	0.4	0.5	0.7	10.9	1.1	1.0	1.5	1.0	2.0	2.2	2.4	2.0	2.0	2.5	3.1	3.2	3.2	3.3
, i i i i i i i i i i i i i i i i i i i					1	0.7	10.9	1.1	1.0	1.5	1.0	2.0	2.2	2.4	2.0	2.0	2.5	3.1	3.2	3.2	3.3
Clover - Ladi	no (Kilo	ogram	is per	Hect	are)		•		•							•					
Clover - Ladi High Range	no (Kilo		s per	Hect	are)	136	175	218	265	315	367	420	474	529	583	636	687	735	781	822	859
Clover - Ladi High Range Low Range	no (Kilo 0 0	ogram 37 7	s per 52 8	Hect	are)	136 17	175 22	218 28	•							•					859
Clover - Ladi <sup>High</sup> Range Low Range Clover - Lad	no (Kilo 0 lino (Ki	ogram 37 7 lograr	s per 52 8 ms pe	Hect 74 9 er 100	are) 102 12 00 Sq	136 17 uare	175 22 Meter	218 28 (S)	265 35	315 43	367 50	420 58	474 67	529 75	583 83	636 90	687 97	735 104	781	822 114	859 117
Clover - Ladi High Range Low Range Clover - Lad High Range	no (Kilo 0 0 lino (Ki	ogram 37 7 lograr 3.7	52 8 52 8 5.2	<sup>•</sup> Hect 74 9 er 100 7.4	are) 102 12 00 Sq 10.2	136 17 uare 13.6	175 22 Metei 17.5	218 28 ( <b>S</b> ) 21.8	265 35 26.5	315 43 31.5	367 50 36.7	420 58 42.0	474 67 47.4	529 75 52.9	583 83 58.3	636 90 63.6	687 97 68.7	735 104 73.5	781 109 78.1	822 114 82.2	859 117 85.9
Clover - Ladi High Range Low Range Clover - Lad High Range	no (Kilo 0 lino (Ki	ogram 37 7 lograr	s per 52 8 ms pe	Hect 74 9 er 100	are) 102 12 00 Sq	136 17 uare	175 22 Meter	218 28 (S)	265 35	315 43	367 50	420 58	474 67	529 75	583 83	636 90	687 97	735 104	781	822 114	859 117 85.9
Clover - Ladi High Range Low Range Clover - Lad High Range Low Range	no (Kilo 0 lino (Ki 0 0	ogram 37 7 lograr 3.7 0.7	52 8 ms per 5.2 0.7	<ul> <li>Hect</li> <li>74</li> <li>9</li> <li>9</li> <li>7.4</li> <li>0.9</li> </ul>	are) 102 12 00 Sq 10.2 1.2	136 17 uare 13.6	175 22 Metei 17.5	218 28 ( <b>S</b> ) 21.8	265 35 26.5	315 43 31.5	367 50 36.7	420 58 42.0	474 67 47.4	529 75 52.9	583 83 58.3	636 90 63.6	687 97 68.7	735 104 73.5	781 109 78.1	822 114 82.2	859 117 85.9
Clover - Ladi High Range Low Range Clover - Lad High Range Low Range Clover - Rec	no (Kilo 0 lino (Ki 0 0	ogram 37 7 lograr 3.7 0.7	s per 52 8 ms pe 5.2 0.7	Hect 74 9 er 100 7.4 0.9	are) 102 12 00 Sq 10.2 1.2 e)	136 17 <b>uare</b> 13.6 1.7	175 22 Meter 17.5 2.2	218 28 <b>(S)</b> 21.8 2.8	265 35 26.5 3.5	315 43 31.5 4.3	367 50 36.7 5.0	420 58 42.0 5.8	474 67 47.4 6.7	529 75 52.9 7.5	583 83 58.3 8.3	636 90 63.6 9.0	687 97 68.7 9.7	735 104 73.5 10.4	781 109 78.1 10.9	822 114 82.2 11.4	859 117 85.9 11.7
Clover - Ladi High Range Low Range Clover - Lad High Range Low Range Clover - Rec High Range	no (Kild 0 0 lino (Ki 0 0 1 (Kilog 0	0gram 37 7 lograr 3.7 0.7 rams 61	52 8 52 52 8 5.2 0.7 9 er H 75	<ul> <li>Hect</li> <li>74</li> <li>9</li> <li>7.4</li> <li>0.9</li> <li>100</li> <li>7.4</li> <li>0.9</li> <li>100</li> <li>100</li></ul>	are) 102 12 00 Sq 10.2 1.2 e) 128	136 17 <b>Uare</b> 13.6 1.7	175 22 Meter 17.5 2.2 2.2	218 28 <b>(S)</b> 21.8 2.8 2.8	265 35 26.5 3.5 3.5	315 43 31.5 4.3 369	367 50 36.7 5.0 428	420 58 42.0 5.8 488	474 67 47.4 6.7 547	529 75 52.9 7.5 606	583 83 58.3 8.3 664	636 90 63.6 9.0 718	687 97 68.7 9.7 768	735 104 73.5 10.4 814	781 109 78.1 10.9 853	822 114 82.2 11.4 8886	859 117 85.9 11.1 911
Clover - Ladi High Range Low Range Clover - Lad High Range Low Range Clover - Rec High Range Low Range	no (Kild 0 0 0 0 0 0 1 (Kilog 0 0	ogram       37       7       lograr       3.7       0.7       rams       61       9	52 8 5.2 5.2 0.7 <b>per</b> H 75 9	<ul> <li>Hect</li> <li>74</li> <li>9</li> <li>7.4</li> <li>0.9</li> <li>Iectar</li> <li>97</li> <li>11</li> </ul>	are) 102 12 00 Sq 10.2 1.2 1.2 1.2 1.2 1.2 1.2	136 17 <b>uare</b> 13.6 1.7 166 19	175 22 Meter 17.5 2.2 2.2 2.2	218 28 <b>(S)</b> 21.8 2.8	265 35 26.5 3.5	315 43 31.5 4.3	367 50 36.7 5.0	420 58 42.0 5.8	474 67 47.4 6.7	529 75 52.9 7.5	583 83 58.3 8.3	636 90 63.6 9.0	687 97 68.7 9.7	735 104 73.5 10.4	781 109 78.1 10.9	822 114 82.2 11.4	859 117 85. 11. 911
Clover - Ladi High Range Low Range Clover - Lad High Range Clover - Rec High Range Low Range Clover - Rec	no (Kild 0 0 0 0 0 0 1 (Kilog 0 0 0 1 (Kilog	ogram 37 7 lograr 3.7 0.7 rams 61 9 rams	s per 52 8 5.2 0.7 per H 75 9 per 1	Hect 74 9 er 100 7.4 0.9 lectar 97 11 000 \$	are) 102 12 00 Sq 10.2 1.2 re) 128 15 Squar	136 17 uare 13.6 1.7 166 19 e Me	175 22 Meter 17.5 2.2 210 25 ters)	218 28 (S) 21.8 2.8 2.9 31	265 35 26.5 3.5 3.5 313 38	315 43 31.5 4.3 369 46	367 50 36.7 5.0 428 54	420 58 42.0 5.8 488 63	474 67 47.4 6.7 547 71	529 75 52.9 7.5 606 79	583 83 58.3 8.3 664 86	636 90 63.6 9.0 718 94	687 97 68.7 9.7 768 100	735 104 73.5 10.4 814 105	781 109 78.1 10.9 853 110	822 114 82.2 11.4 886 113	8559 1117 855.1 111.1 9111 1115
Clover - Ladi High Range Low Range Clover - Lad High Range Low Range Clover - Rec High Range Low Range Clover - Rec High Range	no (Kilo 0 0 0 0 0 1 (Kilog 0 1 (Kilog 0 1 (Kilog 0	ogram 37 7 lograr 3.7 0.7 rams 61 9 rams 6.1	s per 52 8 5.2 0.7 per H 75 9 per 1 7.5	Hect 74 9 7.4 0.9 7.4 0.9 lectar 97 11 000 \$ 9.7	are) 102 12 0 Sq 10.2 1.2 1.2 re) 128 15 Squar 12.8	136 17 uare 13.6 1.7 166 19 e Met 16.6	175 22 Meter 17.5 2.2 210 25 ters) 21.0	218 28 <b>`S)</b> 21.8 2.8 2.9 31	265 35 26.5 3.5 3.5 313 38 31.3	315 43 31.5 4.3 369 46 36.9	367 50 36.7 5.0 428 54 42.8	420 58 42.0 5.8 488 63 488 63	474 67 47.4 6.7 547 71 54.7	529 75 52.9 7.5 606 79 60.6	583 83 58.3 8.3 664 86 66.4	636 90 63.6 9.0 718 94 71.8	687 97 68.7 9.7 768 100 76.8	735 104 73.5 10.4 814 105 81.4	781 109 78.1 10.9 853 110 85.3	822 114 82.2 11.4 886 113 8866	859 117 85.0 11.1 911 115 91.0
Clover - Ladi High Range Low Range Clover - Lad High Range Low Range Clover - Rec High Range Low Range Clover - Rec High Range	no (Kild 0 0 0 0 0 0 1 (Kilog 0 0 0 1 (Kilog	ogram 37 7 lograr 3.7 0.7 rams 61 9 rams	s per 52 8 5.2 0.7 per H 75 9 per 1	Hect 74 9 er 100 7.4 0.9 lectar 97 11 000 \$	are) 102 12 00 Sq 10.2 1.2 re) 128 15 Squar	136 17 uare 13.6 1.7 166 19 e Me	175 22 Meter 17.5 2.2 210 25 ters)	218 28 (S) 21.8 2.8 2.9 31	265 35 26.5 3.5 3.5 313 38	315 43 31.5 4.3 369 46	367 50 36.7 5.0 428 54	420 58 42.0 5.8 488 63	474 67 47.4 6.7 547 71	529 75 52.9 7.5 606 79	583 83 58.3 8.3 664 86	636 90 63.6 9.0 718 94	687 97 68.7 9.7 768 100	735 104 73.5 10.4 814 105	781 109 78.1 10.9 853 110	822 114 82.2 11.4 886 113	859 117 85.( 11.7 911 115 91.(
Clover - Ladi High Range Low Range Clover - Lad High Range Low Range Clover - Rec High Range Clover - Rec High Range Low Range Low Range	no (Kilo 0 lino (Ki 0 0 l (Kilog 0 l (Kilog 0 l (Kilog 0 0	ogram       37       7       lograr       3.7       0.7   rams       61       9       6.1       0.9	s per 52 8 ms pe 5.2 0.7 9 per H 7.5 9 per 1 7.5 0.9	Hect 74 9 77 9 7.4 0.9 100 7.4 0.9 11 000 \$ 9.7 1.1	are) 102 12 0 Sq 10.2 1.2 re) 128 15 Squar 12.8 1.5	136 17 uare 13.6 1.7 166 19 e Met 16.6	175 22 Meter 17.5 2.2 210 25 ters) 21.0	218 28 <b>`S)</b> 21.8 2.8 2.9 31	265 35 26.5 3.5 3.5 313 38 31.3	315 43 31.5 4.3 369 46 36.9	367 50 36.7 5.0 428 54 42.8	420 58 42.0 5.8 488 63 488 63	474 67 47.4 6.7 547 71 54.7	529 75 52.9 7.5 606 79 60.6	583 83 58.3 8.3 664 86 66.4	636 90 63.6 9.0 718 94 71.8	687 97 68.7 9.7 768 100 76.8	735 104 73.5 10.4 814 105 81.4	781 109 78.1 10.9 853 110 85.3	822 114 82.2 11.4 886 113 8866	859 117 85.9 11.7
Clover - Ladi High Range Low Range Clover - Lad High Range Low Range Clover - Rec High Range Low Range Clover - Rec High Range Low Range	no (Kilo 0 lino (Ki 0 0 l (Kilog 0 l (Kilog 0 l (Kilog 0 0	ogram       37       7       lograr       3.7       0.7   rams       61       9       6.1       0.9	s per 52 8 ms pe 5.2 0.7 9 per H 7.5 9 per 1 7.5 0.9	Hect 74 9 77 9 7.4 0.9 100 7.4 0.9 11 000 \$ 9.7 1.1	are) 102 12 0 Sq 10.2 1.2 re) 128 15 Squar 12.8 1.5	136 17 uare 13.6 1.7 166 19 e Met 16.6	175 22 Meter 17.5 2.2 210 25 ters) 21.0	218 28 <b>`S)</b> 21.8 2.8 2.9 31	265 35 26.5 3.5 3.5 313 38 31.3	315 43 31.5 4.3 369 46 36.9	367 50 36.7 5.0 428 54 42.8	420 58 42.0 5.8 488 63 488 63	474 67 47.4 6.7 547 71 54.7	529 75 52.9 7.5 606 79 60.6	583 83 58.3 8.3 664 86 66.4	636 90 63.6 9.0 718 94 71.8	687 97 68.7 9.7 768 100 76.8	735 104 73.5 10.4 814 105 81.4	781 109 78.1 10.9 853 110 85.3	822 114 82.2 11.4 886 113 8866	859 117 85.0 11.1 911 115 91.0
Clover - Ladi High Range Low Range Clover - Lad High Range Low Range Clover - Rec High Range Clover - Rec High Range Low Range Clover - Whi	no (Kilo 0 0 0 0 0 1 (Kilog 0 1 (Kilog 0 1 (Kilog 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ogram       37       7       lograr       3.7       0.7       rams       61       9       rams       6.1       0.9       ogram       54	s per 52 8 ms pe 5.2 0.7 <b>per H</b> 75 9 <b>per 1</b> 7.5 0.9 <b>s per</b> 69	Hect 74 9 7.4 0.9 7.4 0.9 100 97 11 000 \$ 9.7 1.1 Hect 93	are) 102 12 00 Sq 10.2 1.2 1.2 re) 128 15 Squar 12.8 1.5 are) 123	136 17 <b>uare</b> 13.6 1.7 166 19 <b>e Me</b> 16.6 1.9	175 22 Meter 17.5 2.2 210 25 ters) 21.0 2.5	218 28 <b>*S</b> ) 21.8 2.8 259 31 25.9 3.1 225.9 3.1	265 35 26.5 3.5 3.5 313 38 31.3	315 43 31.5 4.3 369 46 36.9 4.6 350	367 50 36.7 5.0 428 54 42.8	420 58 42.0 5.8 488 63 488 63 48.7 6.2 458	474 67 47.4 6.7 547 71 54.7	529 75 52.9 7.5 606 79 60.6 7.9 566	583 83 58.3 8.3 6664 86 66.4 8.6 618	636 90 63.6 9.0 718 94 71.8 94 71.8 9.4	687 97 68.7 9.7 768 100 76.8	735 104 73.5 10.4 814 105 81.4 10.5 753	781 109 78.1 10.9 853 110 85.3	822 114 82.2 11.4 886 113 8866	859 117 85.5 11.7 911 11.5 91.0 11.5
Clover - Ladi High Range Low Range Clover - Lad High Range Low Range Clover - Rec High Range Low Range Clover - Rec High Range Low Range Clover - Whi High Range Low Range	no (Kilo 0 0 0 0 0 0 1 (Kilog 0 1 (Kilog 0 1 (Kilog 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ogram       37       7       lograr       3.7       0.7       rams       61       9       rams       6.1       0.9       ogram       54       4	s per 52 8 ms pe 5.2 0.7 <b>per H</b> 75 9 <b>per 1</b> 7.5 0.9 <b>s per</b> 69 6	Hect 74 9 er 1000 7.4 0.9 97 11 000 \$ 9.7 1.1 Hect 93 9	are) 102 12 00 Sq 10.2 1.2 1.2 Te) 128 15 Squar 12.8 1.5 Tare) 123 12 12 12 12 12 12 12 12 12 12	136 17 13.6 1.7 13.6 1.7 166 1.9 16.6 1.9	175 22 Metel 17.5 2.2 210 25 ters) 21.0 2.5 21.0 2.5	218 28 rS) 21.8 2.8 259 31 25.9 3.1 25.9 3.1	265 35 26.5 3.5 3.5 313 38 31.3 3.8	315 43 31.5 4.3 36.9 46 36.9 4.6	367 50 36.7 5.0 428 54 42.8 54	420 58 42.0 5.8 488 63 488 63 48.7 6.2	474 67 47.4 6.7 547 71 54.7 7.1	529 75 52.9 7.5 606 79 60.6 7.9	583 83 58.3 8.3 664 86 66.4 8.6	636 90 63.6 9.0 718 94 71.8 94	687 97 68.7 9.7 768 100 76.8 10.0	735 104 73.5 10.4 814 105 81.4 10.5	781 109 78.1 10.9 853 110 85.3 110	822 114 82.2 11.4 886 113 88.6 11.3	859 117 85.5 11.7 911 11.7 911.1 11.5 91.0 11.5 839
Clover - Ladi High Range Low Range Clover - Lad High Range Low Range Clover - Rec High Range Low Range Clover - Rec High Range	no (Kilo 0 0 0 0 0 0 1 (Kilog 0 1 (Kilog 0 1 (Kilog 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ogram       37       7       lograr       3.7       0.7       rams       61       9       rams       6.1       0.9       ogram       54       4	s per 52 8 ms pe 5.2 0.7 <b>per H</b> 75 9 <b>per 1</b> 7.5 0.9 <b>s per</b> 69 6	Hect 74 9 er 1000 7.4 0.9 97 11 000 \$ 9.7 1.1 Hect 93 9	are) 102 12 00 Sq 10.2 1.2 1.2 Te) 128 15 Squar 12.8 1.5 Tare) 123 12 12 12 12 12 12 12 12 12 12	136 17 13.6 1.7 13.6 1.7 166 1.9 16.6 1.9	175 22 Metel 17.5 2.2 210 25 ters) 21.0 2.5 21.0 2.5	218 28 rS) 21.8 2.8 259 31 25.9 3.1 25.9 3.1	265 35 26.5 3.5 3.5 3.13 38 31.3 3.8 297	315 43 31.5 4.3 369 46 36.9 4.6 350	367 50 36.7 5.0 428 54 42.8 54 42.8 5.4	420 58 42.0 5.8 488 63 488 63 48.7 6.2 458	474 67 47.4 6.7 547 71 54.7 7.1 513	529 75 52.9 7.5 606 79 60.6 7.9 566	583 83 58.3 8.3 6664 86 66.4 8.6 618	636 90 63.6 9.0 718 94 71.8 94 71.8 9.4	687 97 68.7 9.7 768 100 76.8 10.0	735 104 73.5 10.4 814 105 81.4 10.5 753	781 109 78.1 10.9 853 110 85.3 110 85.3 11.0	822 114 82.2 11.4 8886 113 888.6 11.3 888.7	859 117 85.( 11.7 911 115 91.(
Clover - Ladi -ligh Range Low Range Clover - Lad -ligh Range Low Range Clover - Rec -ligh Range Low Range Clover - Rec -ligh Range Low Range Clover - Whi -ligh Range Low Range Clover - Whi -ligh Range -ow Range Clover - Whi -ligh Range -ow Rang	no (Kilo 0 0 0 0 0 0 1 (Kilog 0 1 (Kilog 0 1 (Kilog 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ogram       37       7       lograr       3.7       0.7       rams       61       9       rams       6.1       0.9       ogram       54       4	s per 52 8 ms pe 5.2 0.7 <b>per H</b> 75 9 <b>per 1</b> 7.5 0.9 <b>s per</b> 69 6	Hect 74 9 er 1000 7.4 0.9 97 11 000 \$ 9.7 1.1 Hect 93 9	are) 102 12 00 Sq 10.2 1.2 1.2 Te) 128 15 Squar 12.8 1.5 Tare) 123 12 12 12 12 12 12 12 12 12 12	136 17 13.6 1.7 13.6 1.7 166 1.9 16.6 1.9	175 22 Metel 17.5 2.2 210 25 ters) 21.0 2.5 21.0 2.5	218 28 rS) 21.8 2.8 259 31 25.9 3.1 25.9 3.1	265 35 26.5 3.5 3.5 3.13 38 31.3 3.8 297	315 43 31.5 4.3 369 46 36.9 4.6 350	367 50 36.7 5.0 428 54 42.8 54 42.8 5.4	420 58 42.0 5.8 488 63 488 63 48.7 6.2 458	474 67 47.4 6.7 547 71 54.7 7.1 513	529 75 52.9 7.5 606 79 60.6 7.9 566	583 83 58.3 8.3 6664 86 66.4 8.6 618	636 90 63.6 9.0 718 94 71.8 94 71.8 9.4	687 97 68.7 9.7 768 100 76.8 10.0	735 104 73.5 10.4 814 105 81.4 10.5 753	781 109 78.1 10.9 853 110 85.3 110 85.3 11.0	822 114 82.2 11.4 8886 113 888.6 11.3 888.7	859 117 85.9 11.7 911 115 91.0 11.5 839 105
Clover - Ladi -ligh Range Low Range Clover - Lad -ligh Range Low Range Clover - Rec -ligh Range Low Range Clover - Rec -ligh Range Low Range Clover - White -ligh Range Low Range Clover - White -ligh Range -ow Range Clover - White -ligh Range -ow Row Row Row Row Row Row Row Row Row R	no (Kilo 0 lino (Ki 0 1 (Kilog 1 (Kilog 0 0 1 (Kilog 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	ogram           37           37           lograr           3.7           0.7           rams           61           9           rams           6.1           0.9           ogram           54           4           ogram	52 52 52 52 0.7 5.2 0.7 0.7 0.7 0.7 0.9 0.9 5.2 0.7 0.7 0.9 5.2 0.7 0.7 0.9 5.2 0.7 0.7 0.9 5.2 0.7 0.9 5.2 5.2 0.9 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2	Hect 74 9 9 7.4 0.9 1000 \$ 97 11 0000 \$ 9.7 1.1 93 9 10000	are) 102 12 00 Sq 10.2 1.2 1.2 12.8 15 Squar 12.8 1.5 are) 123 12 0 Squar 123 12 12 12 12 12 12 12 12 12 12	136 17 13.6 13.6 1.7 19 e Mei 16.6 1.9 160 17 17 are M	175 22 Meteer 17.5 2.2 210 25 21.0 2.5 21.0 2.5 202 22 202 22 22 22 22	218 28 7S) 21.8 2.8 2.8 25.9 3.1 25.9 3.1 25.9 3.1	265 35 26.5 3.5 313 38 31.3 38 31.3 3.8 297 35	315 43 31.5 4.3 369 46 36.9 4.6 350 42	367 50 36.7 5.0 428 54 42.8 54 42.8 5.4 403 49	420 58 42.0 5.8 488 63 488 63 48.7 6.2 458 57	474 67 47.4 6.7 547 71 54.7 7.1 513 64	529 75 52.9 7.5 60.6 79 60.6 7.9 5666 71	583 83 58.3 8.3 6664 86 666.4 8.6 666.4 8.6	636 90 63.6 9.0 718 94 71.8 94 71.8 94 667 84	687 97 68.7 9.7 768 100 76.8 10.0 76.8 10.0	735 104 73.5 10.4 814 105 81.4 10.5 753 95	781 109 78.1 10.9 853 110 85.3 11.0 788 99	822 114 82.2 11.4 886 113 886 113 88.6 11.3 8817 103	85.9 117 85.9 11. 91.1 11.5 91.1 11.5 91.0 11.5 83.9 105 83.9
Clover - Ladi -ligh Range Low Range Clover - Lad -ligh Range Low Range Clover - Rec -ligh Range Low Range Clover - Rec -ligh Range Low Range Clover - White -ligh Range Low Range Clover - White -ligh Range -ow Range Clover - White -ligh Range -ow Row Row Row Row Row Row Row Row Row R	no (Kild 0 0 0 0 0 0 1 (Kilog 0 0 1 (Kilog 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ogram       37       37       10 grar       3.7       0.7       rams       61       9       rams       6.1       0.9       ogram       54       4       ogram       5.4	s       per         52       8         ms       per         5.2       0.7         per       H         75       9         per       1         7.5       0.9         s       per         69       6         s       per         6.9       6.9	Hect 74 9 9 r 100 7.4 0.9 9 11 000 \$ 9.7 1.1 Hect 93 9 1000 9.3	are) 102 12 00 Sq 10.2 1.2 1.2 128 15 Squar 12.8 1.5 123 123 123 123 123 123 123 123	136 17 uare 13.6 1.7 186 19 16.6 1.9 16.0 17 17 are N 16.0	175 22 Meter 17.5 2.2 210 25 210 25 21.0 2.5 202 22 202 22 202 22 202 202	218 28 7S) 21.8 2.8 2.59 31 25.9 3.1 25.9 3.1 24.8	265 35 26.5 3.5 3.5 313 38 31.3 3.8 297 35	315 43 31.5 4.3 369 46 36.9 4.6 350 42 35.0	367 50 36.7 5.0 428 54 42.8 54 42.8 54 42.8 54 42.8 54 403 49	420 58 42.0 5.8 488 63 488.7 6.2 488.7 6.2 458.57 45.8	474 67 47.4 6.7 547 71 54.7 7.1 513 64 51.2	529 75 52.9 7.5 606 79 60.6 7.9 5666 71	583 83 58.3 8.3 6664 86 666.4 8.6 666.4 8.6 618 78 61.8	636 90 63.6 9.0 718 94 71.8 94 71.8 94 667 84	687 97 68.7 9.7 768 100 76.8 10.0 76.8 10.0 712 90	735 104 73.5 10.4 814 105 81.4 10.5 753 95 75.3	781 109 78.1 10.9 853 110 85.3 11.0 788 99 78.8	822 114 82.2 11.4 8886 113 888.6 11.3 888.6 11.3 881.7	85.9 117 85.9 11. 91.1 11.5 91.1 11.5 91.0 11.5 83.9 105 83.9
Clover - Ladi -ligh Range _ow Range Clover - Lad -ligh Range _ow Range Clover - Rec -ligh Range _ow Range Clover - Rec -ligh Range _ow Range Clover - Whi -ligh Range _ow Range _ow Range _ow Range _ow Range	no (Kild 0 0 0 0 1 (Kilog 0 0 1 (Kilog 0 0 1 (Kilog 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ogram         37         37         lograr         3.7         0.7         rams         61         9         rams         6.1         0.9         ogram         54         4         ogram         5.4         0.4	s       per         52       8         ms       per         5.2       0.7         per       H         75       9         per       1         7.5       0.9         s       per         69       6         s       per         6.9       0.6	Hect 74 9 9 r 1000 7.4 0.9 9 11 0000 \$ 9.7 1.1 Hect 93 9 9 10000 9.3 0.9	are) 102 12 00 Sq 10.2 1.2 12.8 12.8 15 Squar 12.8 1.5 are) 123 12 0 Squar 123 12 123 12 123 12 12 12 12 12 12 12 12 12 12	136 17 <b>uare</b> 13.6 1.7 19 <b>e Me</b> 16.6 1.9 16.0 17 <b>are N</b> 16.0 1.7	175 22 Meter 17.5 2.2 210 25 210 25 21.0 2.5 202 22 22 22 22 22 22 22 22 22 22 22 22	218 28 7S) 21.8 2.8 21.8 2.8 25.9 3.1 25.9 3.1 24.8 29 ) 24.8 2.8	265 35 26.5 3.5 3.5 313 38 31.3 3.8 31.3 3.8 297 35 29.7 3.5	315 43 31.5 4.3 369 46 36.9 4.6 350 42 35.0	367 50 36.7 5.0 428 54 42.8 54 42.8 54 42.8 54 42.8 54 403 49	420 58 42.0 5.8 488 63 488.7 6.2 488.7 6.2 458.57 45.8	474 67 47.4 6.7 547 71 54.7 7.1 513 64 51.2	529 75 52.9 7.5 606 79 60.6 7.9 5666 71	583 83 58.3 8.3 6664 86 666.4 8.6 666.4 8.6 618 78 61.8	636 90 63.6 9.0 718 94 71.8 94 71.8 94 667 84	687 97 68.7 9.7 768 100 76.8 10.0 76.8 10.0 712 90	735 104 73.5 10.4 814 105 81.4 10.5 753 95 75.3	781 109 78.1 10.9 853 110 85.3 11.0 788 99 78.8	822 114 82.2 11.4 8886 113 888.6 11.3 888.6 11.3 881.7	855 117 85.1 11. 911 115 91.1 115 91.1 11. 115 839 105 833.1
Clover - Ladi -igh Range Clover - Lad -igh Range -ow Range Clover - Recc -igh Range Clover - Recc -igh Range -ow Range Clover - Recc -igh Range -ow Range Clover - Whi -igh Range -ow Range Clover - Whi -igh Range -ow Range	no (Kilo 0 ino (Ki 0 1 (Kilog 0 1 (Kilog 0 0 1 (Kilog 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ogram       37       37       7       lograr       3.7       0.7   rams       61       9       rams       6.1       0.9       ogram       54       4       ogram       5.4       0.4	52         8         75         9         75         9         7.5         0.9         8         9         6         6         8         9         6         6         9         0.6	Hect 74 9 9 r 1000 7.4 0.9 9 7 11 000 \$ 9.7 1.1 1000 93 9 9 0.9 1000 9.3 0.9	are) 102 12 00 Sq 10.2 1.2 1.2 128 15 Squar 128 15 Squar 12.8 1.5 123 12 0 Squar 12.8 1.5 Squar 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	136 17 17 13.6 1.7 13.6 1.7 19 e Me <sup>i</sup> 16.6 1.9 16.6 1.9 16.0 1.7 <b>are N</b> 16.0 1.7	175 22 Meter 17.5 2.2 210 25 21.0 2.5 21.0 2.5 22 22 eters 20.2 2.2 20.2 2.2	218 28 7S) 21.8 2.8 25.9 31 25.9 3.1 25.9 3.1 225.9 3.1 224.8 2.9 ) 24.8 2.8	265 35 26.5 3.5 3.5 3.5 313 38 31.3 3.8 297 35 29.7 3.5	315 43 31.5 4.3 369 46 36.9 4.6 35.0 4.2	367 50 36.7 5.0 428 54 42.8 54 42.8 5.4 40.3 49	420 58 42.0 5.8 488 63 488 63 48.7 6.2 45.8 57 45.8 5.7	474 67 47.4 6.7 547 71 54.7 7.1 54.7 7.1 513 64 51.2 6.4	529 75 52.9 7.5 606 79 60.6 7.9 5666 7.1	583 83 58.3 8.3 6664 86 666.4 8.6 666.4 8.6 61.8 78 61.8 7.8	636 90 63.6 9.0 718 94 71.8 94 71.8 94 6667 84 666.7 8.4	687 97 68.7 9.7 768 100 76.8 10.0 76.8 10.0 71.2 90 71.2 9.0	735 104 73.5 10.4 814 105 81.4 105 81.4 10.5 753 95 75.3 9.5	781 109 78.1 10.9 853 110 85.3 110 85.3 11.0 788 99 78.8 99	822 114 82.2 11.4 886 113 886 113 88.6 11.3 88.6 11.3 881.7 103	855 117 85.1 11. 911 115 91.1 115 91.1 115 91.1 115 833.9 105 833.1 10.1
Clover - Ladi -ligh Range _ow Range Clover - Lad -ligh Range _ow Range Clover - Recc -ligh Range _ow Range Clover - Recc -ligh Range _ow Range Clover - Whi -ligh Range _ow Range Clover - Whi -ligh Range _ow Range -ow Range	no (Kild 0 0 0 0 1 (Kilog 0 0 1 (Kilog 0 0 1 (Kilog 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ogram         37         37         lograr         3.7         0.7         rams         61         9         rams         6.1         0.9         ogram         54         4         ogram         5.4         0.4	s       per         52       8         ms       per         5.2       0.7         per       H         75       9         per       1         7.5       0.9         s       per         69       6         s       per         6.9       0.6	Hect 74 9 9 r 1000 7.4 0.9 9 11 0000 \$ 9.7 1.1 Hect 93 9 10000 9.3 0.9	are) 102 12 00 Sq 10.2 1.2 1.2 128 15 Squar 12.8 1.5 are) 123 12 123 12 123 12 123 12 123 12 12 12 12 12 12 12 12 12 12	136 17 13.6 1.7 13.6 1.7 19 e Me <sup>i</sup> 16.6 1.9 16.0 1.7 16.0 1.7 16.0 1.7 71	175 22 Meter 17.5 2.2 210 25 210 25 21.0 2.5 21.0 2.5 202 22 22 22 22 22 22 22 22 22 22 22 22	218 28 7S) 21.8 2.8 25.9 31 25.9 3.1 25.9 3.1 24.8 29 ) 24.8 2.8 24.8 2.8	265 35 26.5 3.5 3.5 3.5 313 38 31.3 3.8 31.3 3.8 297 35 29.7 3.5	315 43 31.5 4.3 369 46 36.9 4.6 35.0 4.2 35.0 4.2	367 50 36.7 5.0 428 54 42.8 54 42.8 54 42.8 54 40.3 49 40.3 4.9	420 58 42.0 5.8 488 63 488 63 48.7 6.2 48.7 6.2 45.8 57 45.8 5.7	474 67 47.4 6.7 547 71 54.7 7.1 513 64 51.2 6.4	529 75 52.9 7.5 60.6 79 60.6 7.9 566 7.1 566.6 7.1	583 83 58.3 8.3 58.3 8.3 6664 86 666.4 8.6 666.4 8.6 78 61.8 78 61.8 7.8	636 90 63.6 9.0 718 94 71.8 94 71.8 94 71.8 94 667 84 84 84	687 97 68.7 9.7 768 100 76.8 10.0 76.8 10.0 71.2 90 71.2 90	735 104 73.5 10.4 814 105 81.4 105 81.4 10.5 753 95 75.3 95 75.3 9.5	781 109 78.1 10.9 853 110 85.3 110 85.3 11.0 788 99 78.8 99 78.8 9.9	822 114 82.2 11.4 8886 11.3 888.6 11.3 888.6 11.3 881.7 10.3 81.7 10.3	8555 1117 885.1 111 111 111 111 111 111 111 111 111
Clover - Ladi -ligh Range Low Range Clover - Lad -ligh Range Low Range Clover - Rec -ligh Range Low Range Clover - Rec -ligh Range Low Range Clover - White -ligh Range Low Range Clover - White -ligh Range Low Range Clover - Fint -ligh Range Low Range Clover - Fint -ligh Range Low Range Clover - Fint -ligh Range Low Range Clover - Rec -ligh Range Low Range - Low R	no (Kild 0 0 0 0 0 0 0 0 0 0 0 0 0	ogram         37         37         logram         3.7         0.7         rams         61         9         rams         6.1         0.9         ogram         54         4         ogram         5.4         0.4         19         2	s       per         52       8         ms       per         5.2       0.7         per       H         75       9         per       1         7.5       0.9         s       per         69       6         s       per         6.9       0.6         rf       Type         27       3	Hect 74 9 9 r 100 7.4 0.9 9 11 000 \$ 9.7 1.1 Hect 93 9 9 1000 9.3 0.9 0 9 (Ki 39 4	are) 102 12 00 Sq 10.2 1.2 1.2 128 15 Squar 128 15 Squar 12.8 1.5 123 123 123 123 123 123 123 123	136 17 13.6 1.7 13.6 1.7 19 16.6 1.9 16.6 1.9 16.0 1.7 16.0 1.7 16.0 1.7 17 8	175           22           Meter           17.5           2.2           210           25           210           25           210           25           202           22           leters           20.2           22.2           leters           91           10	218 28 7S) 21.8 2.8 2.8 25.9 31 25.9 3.1 25.9 3.1 24.8 29 ) 24.8 2.8 20 112	265 35 26.5 3.5 3.5 313 38 31.3 3.8 31.3 3.8 297 35 29.7 3.5 134 15	315 43 31.5 4.3 369 46 36.9 4.6 35.0 4.2 35.0 4.2 158 18	367 50 36.7 5.0 428 54 42.8 54 42.8 54 42.8 54 403 49 403 49 40.3 4.9	420 58 42.0 5.8 488 63 488 63 48.7 6.2 45.8 57 45.8 5.7	474 67 47.4 6.7 547 71 54.7 7.1 54.7 7.1 513 64 51.2 6.4	529 75 52.9 7.5 606 79 60.6 7.9 5666 7.1	583 83 58.3 8.3 6664 86 666.4 8.6 666.4 8.6 61.8 78 61.8 7.8	636 90 63.6 9.0 718 94 71.8 94 71.8 94 6667 84 666.7 8.4	687 97 68.7 9.7 768 100 76.8 10.0 76.8 10.0 71.2 90 71.2 9.0	735 104 73.5 10.4 814 105 81.4 105 81.4 10.5 753 95 75.3 9.5	781 109 78.1 10.9 853 110 85.3 110 85.3 11.0 788 99 78.8 99	822 114 82.2 11.4 886 113 886 113 88.6 11.3 88.6 11.3 881.7 103	859 117 85 911 11. 911 11. 91 11 91 11 839 105 83 10
Clover - Ladi High Range Low Range Clover - Lad High Range Low Range Clover - Recc High Range Low Range Clover - Recc High Range Low Range Clover - Whi High Range Low Range Clover - Whi High Range Low Range Fescue - Fin High Range Low Range	no (Kild 0 1 1 1 1 1 1 1 1 1 1 1 1 1	ogram         37         7         lograr         3.7         0.7         rams         61         9         rams         6.1         0.9         ogram         54         4         ogram         54         4         ogram         5.4         0.4         19         2         e, Tui	s         per           52         8           ms         per           5.2         0.7           per         H           75         9           per         1           7.5         0.9           s         per           69         6           s         per           6.9         0.6           rf         Type           3         rf	Hect 74 9 9 r 1000 7.4 0.9 9 7 11 000 \$ 9.7 1.1 1000 9.3 0.9 0 9 (Ki 39 4 0 0 0 (Ki 39 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	are) 102 12 00 Sq 10.2 1.2 1.2 1.2 128 15 54 123 123 123 123 123 123 123 123	136 17 13.6 1.7 13.6 1.7 19 e Me' 16.6 1.9 16.6 1.9 16.0 1.7 16.0 1.7 18 ms pu 71 8 ms pu	175 22 Meter 17.5 2.2 210 25 210 25 21.0 2.5 21.0 2.5 22 22 eters) 22.2 22 eters 20.2 2.2 20.2 2.2 20.2 2.2 20.2 2.2 20.2 2.2 2	218 28 28 21.8 2.8 25.9 31 25.9 3.1 25.9 3.1 25.9 3.1 24.8 2.9 ) 24.8 2.8 24.8 2.8 24.8 2.9 112 12 00 Sco	265 35 26.5 3.5 3.5 3.5 313 38 31.3 3.8 31.3 3.8 297 35 29.7 3.5 29.7 3.5	315 43 31.5 4.3 369 46 36.9 4.6 35.0 4.2 35.0 4.2 158 18 Mete	367 50 36.7 5.0 428 54 42.8 54 42.8 54 42.8 54 40.3 49 40.3 4.9 182 21 <b>(S)</b>	420 58 42.0 5.8 488 63 488 63 48.7 6.2 45.8 57 45.8 5.7 206 24	474 67 47.4 6.7 547 71 54.7 7.1 54.7 7.1 513 64 51.2 6.4 231 27	529 75 52.9 7.5 60.6 79 60.6 7.9 5666 7.1 566.6 7.1	583 83 58.3 8.3 58.3 8.3 6664 86 666.4 8.6 666.4 8.6 78 61.8 7.8 2777 33	636 90 63.6 9.0 718 94 71.8 94 71.8 94 71.8 94 667 84 666.7 8.4 299 35	687 97 68.7 9.7 768 100 76.8 10.0 76.8 10.0 77.2 90 71.2 90 319 37	735 104 73.5 10.4 814 105 81.4 105 81.4 10.5 753 95 75.3 95 75.3 9.5	781 109 78.1 10.9 853 110 85.3 110 85.3 11.0 788 99 78.8 99 78.8 9.9	822 114 82.2 11.4 886 113 886 113 88.6 11.3 88.6 11.3 881.7 103 81.7 10.3 81.7	859 117 85.(17) 911 115 91.(17) 91.(17) 91.(17) 11.(17) 105 833.(17) 10.(17) 1
Clover - Ladi High Range Low Range Clover - Lad High Range Low Range Clover - Rec High Range Low Range Clover - Rec High Range Low Range Clover - Whi High Range Low Range	no (Kild 0 0 0 0 0 0 0 0 0 0 0 0 0	ogram         37         37         logram         3.7         0.7         rams         61         9         rams         6.1         0.9         ogram         54         4         ogram         5.4         0.4         19         2	s       per         52       8         ms       per         5.2       0.7         per       H         75       9         per       1         7.5       0.9         s       per         69       6         s       per         6.9       0.6         rf       Type         27       3	Hect 74 9 9 r 100 7.4 0.9 9 11 000 \$ 9.7 1.1 Hect 93 9 9 1000 9.3 0.9 0 9 (Ki 39 4	are) 102 12 00 Sq 10.2 1.2 1.2 128 15 Squar 128 15 Squar 12.8 1.5 123 123 123 123 123 123 123 123	136 17 13.6 1.7 13.6 1.7 19 16.6 1.9 16.6 1.9 16.0 1.7 16.0 1.7 16.0 1.7 17 8	175           22           Meter           17.5           2.2           210           25           210           25           210           25           202           22           leters           20.2           22.2           leters           91           10	218 28 7S) 21.8 2.8 2.8 25.9 31 25.9 3.1 25.9 3.1 24.8 29 ) 24.8 2.8 20 112	265 35 26.5 3.5 3.5 313 38 31.3 3.8 31.3 3.8 297 35 29.7 3.5 134 15	315 43 31.5 4.3 369 46 36.9 4.6 35.0 4.2 35.0 4.2 158 18	367 50 36.7 5.0 428 54 42.8 54 42.8 54 42.8 54 403 49 403 49 40.3 4.9	420 58 42.0 5.8 488 63 488 63 48.7 6.2 48.7 6.2 45.8 57 45.8 5.7	474 67 47.4 6.7 547 71 54.7 7.1 513 64 51.2 6.4	529 75 52.9 7.5 60.6 79 60.6 7.9 566 7.1 566.6 7.1	583 83 58.3 8.3 58.3 8.3 6664 86 666.4 8.6 666.4 8.6 78 61.8 78 61.8 7.8	636 90 63.6 9.0 718 94 71.8 94 71.8 94 71.8 94 667 84 84 84	687 97 68.7 9.7 768 100 76.8 10.0 76.8 10.0 71.2 90 71.2 90	735 104 73.5 10.4 814 105 81.4 105 81.4 10.5 753 95 75.3 95 75.3 9.5	781 109 78.1 10.9 853 110 85.3 110 85.3 11.0 788 99 78.8 99 78.8 9.9	822 114 82.2 11.4 8886 11.3 888.6 11.3 888.6 11.3 881.7 10.3 81.7 10.3	859 117 85.5 911 11.7 911 11.7 91.0 11.5 91.0 105 83.9 105 83.5 10.5

NOTE: Seed rates shown in *bold italics* may be inconsistent

#### Metric Seed Rate Charts for Ag Drive (Continued)

metric 3	eeu	ΠO	lle		1115	101	A	ים נ	Ive		UIII	.mu	ieu,								
Cup Setting	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Fescue K-31	(Kilogi	rams	per H	lectar	e)																
High Range	0	29	31	38	49	63	79	98	119	141	164	187	211	234	256	277	296	313	327	338	345
Low Range	0	3	3	4	5	7	9	11	13	15	18	21	23	26	28	30	32	34	36	37	38
Fescue K-31	(Kiloo	irams	per '	1000	Squar	e Me	ters)														
High Range		2.9	3.1	3.8	4.9	6.3	7.9	9.8	11.9	14.1	16.4	18.7	21.1	23.4	25.6	27.7	29.6	31.3	32.7	33.8	34.5
Low Range	0	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.5	1.8	2.0	2.3	2.6	2.8	3.0	3.2	3.4	3.6	3.7	3.8
j.	-			-																	
Kentucky Bl			Kiloar	ame	oor U	octore															
-						1	<u> </u>		440	400	404	100	040	040	000	000	207	000	005	040	1240
High Range	0	24 3	23 3	28	38	52 6	69 7	90 9	113 11	138 13	164 16	190 18	216 21	242 24	266 26	288 29	307 31	323 34	335 36	343 37	346
Low Range		-			1.	-		-		113	10	10	21	24	20	29	31	34	30	37	39
Kentucky Bl					-	1	i —	1	1	1	1	1	1	1	1	1			1	1	1
High Range	0	2.4	2.3	2.8	3.8	5.2	6.9	9.0	11.3	13.8	16.4	19.0	21.6	24.2	26.6	28.8	30.7	32.3	33.5	34.3	34.6
Low Range	0	0.3	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.3	1.6	1.8	2.1	2.4	2.6	2.9	3.1	3.4	3.6	3.7	3.9
Lovegrass -	Sand	(Kilog	grams	s per l	Hecta	re)															
High Range	0	18	46	73	99	124	149	173	197	222	248	274	301	330	361	393	428	465	505	548	595
Low Range	0	1	4	7	11	15	18	22	25	29	33	36	40	43	47	50	54	57	60	63	66
Lovegrass -	Sand	(Kilog	grams	s per '	1000	Squai	re Me	ters)													
High Range	0	1.8	4.6	7.3	9.9	12.4	14.9	17.3	19.7	22.2	24.8	27.4	30.1	33.0	36.1	39.3	42.8	46.5	50.5	54.8	59.5
Low Range	0	0.1	0.4	0.7	1.1	1.4	1.8	2.2	2.5	2.9	3.2	3.6	4.0	4.3	4.7	5.0	5.4	5.7	6.0	6.3	6.6
Lovegrass -	Weep	ina (ł	Kiloar	ams	ber He	ectare	5)														
High Range	0	41	63	93	130	172	218	268	321	376	431	487	542	595	646	693	736	774	805	829	845
Low Range	0	6	7	10	14	19	25	32	40	47	56	64	72	80	87	94	101	106	111	114	116
Lovegrass -	Ween		<iloar< td=""><td></td><td>_</td><td></td><td></td><td></td><td></td><td>1</td><td>1</td><td>1.</td><td>1.=</td><td>1</td><td>1.</td><td>1</td><td>1.0.</td><td>1.00</td><td>1</td><td>1</td><td>1.1.2</td></iloar<>		_					1	1	1.	1.=	1	1.	1	1.0.	1.00	1	1	1.1.2
High Range	0	4.0	6.3	9.3	13.0	17.2	21.8	26.8	32.1	37.6	43.1	48.7	54.2	59.5	64.6	69.3	73.6	77.3	80.5	82.9	84.5
Low Range	0	0.6	0.7	1.0	1.4	1.9	2.5	3.2	4.0	4.7	5.5	6.4	7.2	8.0	8.7	9.4	10.1	10.6	11.1	11.4	11.6
g_	1.	10.0	1		1.1.1	1	1		1	1	10.0	1	1		1.0	1		1.0.0	1		1
Orchard Gra		oaro			toro)																
						05		140	1.55	07		105	440	1400	1440	450	475	404	0.07	000	1000
High Range	0	11 2	12 2	15	19 2	25 3	34	43 5	55 6	67	81	95	110	126	142	158	175	191	207	223	238
Low Range	-	_			_	-	1.	-	0	8	9	11	12	14	16	18	20	21	23	24	26
Orchard Gra	`_			-	- · · ·		1	ŕ	1	-			-			-	-	-		_	
High Range	0	1.1	1.2	1.4	1.9	2.5	3.4	4.3	5.5	6.7	8.0	9.5	11.0	12.6	14.2	15.8	17.5	19.1	20.7	22.3	23.8
Low Range	0	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.2	1.4	1.6	1.8	2.0	2.1	2.3	2.4	2.6
Rye Grass -	Annua	<b>al</b> (Kil	lograr	ms pe	r Hec	tare)			_	_						_					
High Range	0	27	38	53	70	89	110	133	157	183	208	235	262	288	314	340	364	387	409	429	446
Low Range	0	4	5	6	7	9	11	14	16	19	22	25	28	31	34	37	40	43	46	49	52
Rye Grass -	Annua	<b>al</b> (Kil	lograr	ms pe	r 100	0 Squ	are N	leters	s)												
High Range	0	2.7	3.8	5.3	7.0	8.9	11.0	13.3	15.7	18.2	20.8	23.5	26.1	28.8	31.4	34.0	36.4	38.7	40.9	42.9	44.6
Low Range	0	0.4	0.5	0.6	0.7	0.9	1.1	1.4	1.6	1.9	2.2	2.5	2.8	3.1	3.4	3.7	4.0	4.3	4.6	4.9	5.2
Rye Grass -	Peren	nial (	Kiloa	rams	per H	ectar	e)														
High Range	0	30	43	60	81	105	133	163	194	227	260	294	326	358	388	415	439	460	477	489	496
Low Range	0	3	5	6	9	12	15	18	22	25	29	33	36	40	44	47	50	52	54	56	57
Rye Grass -		-								•			•	•	•	•					
High Range		3.0	4.3	6.0	8.1	10.5	13.3	16.3	19.4	22.7	26.0	29.4	32.6	35.8	38.8	41.5	43.9	46.0	47.7	48.9	49.6
Low Range	0	0.3	0.4	0.6	0.9	1.2	1.5	1.8	2.2	2.5	2.9	3.3	3.6	4.0	4.3	4.7	5.0	5.2	5.4	5.6	5.7
	1~	10.0	0.1	10.0	0.0	_ · · ~	1.10	10	1	12.0	12.0	0.0	10.0			1	10.0	10.2	0.1	10.0	10.7
Sudan Crea		arow	o nor	Heat																	
Sudan Grass	<u> </u>	<u> </u>		-		1										1			-		
High Range	0	39	56	81	112	149	191	237	286	338	392	446	502	556	610	661	710	755	796	832	862
Low Range	0	8	9	10	12	15	20	25	31	38	45	53	60	68	75	81	87	93	97	100	102
Sudan Grass	s (Kilo	gram		1000		-	- <u></u>			-		_	_	_		-				_	
High Range	0	3.8	5.6	8.1	11.2	14.9	19.1	23.7	28.6	33.8	39.2	44.6	50.1	55.6	61.0	66.1	71.0	75.5	79.6	83.2	86.2
Low Range	0	0.8	0.9	1.0	1.2	1.5	2.0	2.5	3.1	3.8	4.5	5.3	6.0	6.8	7.5	8.1	8.7	9.3	9.7	10.0	10.2

#### Metric Seed Rate Charts for Ag Drive (Continued)

							•			•			,								
Cup Setting	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Vetch (Kilogra	ams p	er He	ctare)	)																	
High Range	0	50	66	87	115	148	184	224	266	310	354	399	443	485	525	562	594	622	644	660	668
Low Range	0	1	5	9	13	18	22	26	31	35	40	44	49	53	58	63	67	72	77	82	87
Vetch (Kilogra	ams p	er 100	)0 Sq	uare	Meter	s)															
High Range	0.0	5.0	7.0	9.0	12.0	15.0	18.0	22.0	27.0	31.0	35.0	40.0	44.0	49.0	53.0	56.0	59.0	62.0	64.0	66.0	67.0
Low Range	0.0	0.0	1.0	1.0	1.0	2.0	2.0	3.0	3.0	4.0	4.0	4.0	5.0	5.0	6.0	6.0	7.0	7.0	8.0	8.0	9.0
Wheatgrass	- Cres	ted (I	Kilogr	ams	per H	ectar	e)		-				•				•	-	-		
High Range	0	25	26	30	36	45	57	70	85	101	118	135	153	170	187	203	217	230	241	250	256
Low Range	0	2	3	4	5	6	7	8	10	11	13	15	17	19	21	23	26	29	31	34	37
Wheatgrass	- Cres	ted (I	Kilogr	ams	per 10	000 S	quare	e Met	ers)												
High Range	0	2.5	2.6	3.0	3.6	4.5	5.7	7.0	8.5	10.1	11.8	13.5	15.3	17.0	18.7	20.3	21.7	23.0	24.1	25.0	25.6
Low Range	0	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.6	2.8	3.1	3.4	3.7
	-																				
Wheatgrass	- West	tern (	Kilog	rams	per H	ectar	e)														
High Range	0	16	18	21	28	37	48	62	77	92	109	125	142	157	172	184	195	204	209	211	213
Low Range	0	1	2	3	4	5	6	8	10	12	14	16	18	20	21	23	25	26	27	28	29
Wheatgrass	- West	tern (	Kilog	rams	per 1	000 5	Guar	e Me	ters)	•			•							•	
High Range	0	1.6	1.8	2.1	2.8	3.7	4.8	6.2	7.7	9.2	10.9	12.5	14.2	15.7	17.2	18.4	19.5	20.3	20.9	21.1	21.3
Low Range	0	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.8	1.9	2.1	2.3	2.5	2.6	2.7	2.8	2.9

For large, fluffy seeds change Seed Broadcasting Handle to LARGE SEEDS BROADCAST (refer to "**Seed Broadcasting System**" on page 18 for detailed instructions).

To prevent bridging in the seed box, the Agitator Option may also be used.

To prevent bridging in the feed cups, be sure to use clean seeds that are free from stems and leaves.

Follow instructions 3 through 6 on page 20 to calibrate seed rates, using the Brome Grass Seed rates listed below as a guide.

#### **Metric Brome Seed Rate Chart**

Cup Setting	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Brome (Kilogra	ams p	er He	ctare	)																	
High Range	0.0	2.2	1.1	0.7	0.8	1.5	2.7	4.5	6.8	9.6	13.0	16.8	21.1	25.8	30.9	36.5	42.6	49.0	55.7	62.9	70.4
Low Range	0.0	0.2	0.1	0.1	0.1	0.1	0.3	0.4	0.8	1.0	1.5	1.8	2.4	2.8	3.4	4.0	4.7	5.4	6.1	6.8	8.0
Brome (Kilogra	ams p	er 10	00 So	quare	Mete	rs)															
High Range	0.0	0.2	0.1	0.1	0.1	0.2	0.3	0.5	0.7	1.0	1.3	1.7	2.1	2.6	3.1	3.7	4.3	4.9	5.6	6.3	7.7
Low Range	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.7	0.8

Note: Seed rates for Brome Grass may be inconsistent, especially at lower setting. It is not recommended to use settings under 50.

#### Seed Rate Charts for Turf Drive

Cup Setting	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Alfalfa (Pou				···						···											
High Range	0	37	66	102	146	196	251	311	376	443	514	585	658	731	804	875	944	1010	1072	1130	1183
Low Range	0	8	17	41	65	91	116	143	169	197	225	253	282	311	341	372	403	434	467	499	532
Alfalfa (Pou	nds per	1000	) Sau	are F	eet)								1			1			1		
High Range	0	0.8	1.5	2.3	3.3	4.5	5.8	7.1	8.6	10.2	11.8	13.4	15.1	16.8	18.4	20.1	21.7	23.2	24.6	25.9	27.2
Low Range	0.0	0.2	0.4	0.9	1.5	2.1	2.7	3.3	3.9	4.5	5.2	5.8	6.5	7.1	7.8	8.5	9.2	10.0	10.7	11.5	12.2
Bent Grass	(Pound	s per	Acre	)																	
High Range	0	26	47	72	99	128	160	194	228	264	300	335	371	405	438	470	499	525	549	569	585
Low Range	0	13	20	28	38	49	61	75	88	102	117	131	146	159	173	185	197	207	216	223	229
Bent Grass	(Pound	s per	1000	) Squ	are Fe	eet)										-				-	-
High Range	0.0	0.6	1.1	1.6	2.3	2.9	3.7	4.4	5.2	6.1	6.9	7.7	8.5	9.3	10.1	10.8	11.4	12.1	12.6	13.1	13.4
Low Range	0.0	0.3	0.5	0.6	0.9	1.1	1.4	1.7	2.0	2.4	2.7	3.0	3.3	3.7	4.0	4.3	4.5	4.8	5.0	5.1	5.3
	-																				
Bermuda (Po	ounds p	er Ac	re)																		
High Range	0	60	75	95	118	145	175	207	242	278	316	354	393	432	471	508	545	580	612	642	670
Low Range	0	14	25	36	48	60	72	85	98	111	124	138	151	165	179	193	208	222	237	252	267
Bermuda (P	ounds p	per 10	000 S	quare	e Fee	t)															
High Range	0.0	1.4	1.7	2.2	2.7	3.3	4.0	4.8	5.6	6.4	7.2	8.1	9.0	9.9	10.8	11.7	12.5	13.3	14.1	14.7	15.4
Low Range	0.0	0.3	0.6	0.8	1.1	1.4	1.7	1.9	2.2	2.5	2.8	3.2	3.5	3.8	4.1	4.4	4.8	5.1	5.4	5.8	6.1
Buffalo Gra	ss (Pou	inds p	ber Ad	cre)																	
High Range	0	28	33	43	57	74	95	118	143	168	195	221	246	271	293	313	329	342	350	354	363
Low Range	0	10	13	18	25	32	40	50	59	69	80	90	100	109	118	126	133	139	143	146	147
<b>Buffalo Gra</b>	ss (Pou	inds p	ber 10	000 S	quare	Fee	t)														
High Range	0.0	0.6	0.7	1.0	1.3	1.7	2.2	2.7	3.3	3.9	4.5	5.1	5.7	6.2	6.7	7.2	7.6	7.8	8.0	8.1	8.3
Low Range	0.0	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.6	1.8	2.1	2.3	2.5	2.7	2.9	3.1	3.2	3.3	3.3	3.4
Clover - Lad	ino (Ροι	unds p	per A	cre)																	
High Range	0	48	71	102	141	186	237	293	352	415	480	546	613	680	745	808	869	925	977	1024	1064
Low Range	0	20	27	39	54	73	95	120	147	176	206	238	270	302	334	366	397	427	455	480	504
Clover - Lac	<mark>dino</mark> (Po	ounds	per '	1000	Squa	re Fe	et)														
High Range	0.0	1.1	1.6	2.4	3.2	4.3	5.4	6.7	8.1	9.5	11.0	12.5	14.1	15.6	17.1	18.6	19.9	21.2	22.4	23.5	24.4
Low Range	0.0	0.5	0.6	0.9	1.2	1.7	2.2	2.8	3.4	4.0	4.7	5.5	6.2	6.9	7.7	8.4	9.1	9.8	10.4	11.0	11.6
Clover - Wh	ite (Pou	unds p	per A	cre)																	
High Range	0	62	92	129	173	223	277	336	399	464	531	599	667	735	801	866	927	985	1039	1087	1129
Low Range	0	35	40	50	65	84	106	131	159	188	219	250	281	312	341	369	394	417	436	452	462
Clover - Wh	<b>ite</b> (Ροι	unds p	per 10	000 S	Square	e Fee	t)														
High Range	0.0	1.4	2.1	3.0	4.0	5.1	6.4	7.7	9.1	10.6	12.2	13.7	15.3	16.9	18.4	19.9	21.3	22.6	23.8	25.0	25.9
Low Range	0.0	0.8	0.9	1.1	1.5	1.9	2.4	3.0	3.6	4.3	5.0	5.7	6.4	7.2	7.8	8.5	9.1	9.6	10.0	10.4	10.6
Fescue - Fir	ne Blad	e, Tu	rf Ty	pe (P	ounds	s per	Acre)	)													
High Range	0	35	41	52	70	91	117	146	177	210	244	279	313	345	376	404	429	449	465	475	478
Low Range	0	10	14	21	29	38	49	61	74	87	101	115	128	141	154	165	175	184	191	196	199
Fescue - Fir	ne Blad	e, Tu	rf Ty	pe (P	ounds	s per	1000	Squa	are Fe	eet)											
High Range	0.0	0.8	0.9	1.2	1.6	2.1	2.7	3.3	4.1	4.8	5.6	6.4	7.2	7.9	8.6	9.3	9.8	10.3	10.7	10.9	11.0
Low Range	0.0	0.2	0.3	0.5	0.7	0.9	1.1	1.4	1.7	2.0	2.3	2.6	2.9	3.2	3.5	3.8	4.0	4.2	4.4	4.5	4.6
Fescue K-3 <sup>°</sup>	1(Pound	ds pei	r Acre	e)																	
Link Danas	0	36	40	50	64	82	104	129	156	185	215	245	276	306	334	361	386	407	425	439	448
High Range	0	5	9	14	20	27	35	44	53	63	74	85	96	107	118	129	140	151	161	171	179
High Range Low Range	-																				
<u> </u>	-	ds pe	er 100	)0 Sq	uare I	Feet)															
Low Range	-	ds pe 0.8	o.9	00 Sqi 1.1	uare I	Feet)	2.4	3.0	3.6	4.2	4.9	5.6	6.3	7.0	7.7	8.3	8.9	9.4	9.8	10.1	10.3
Low Range Fescue K-3	1 (Poun		-			1	2.4 0.8	3.0 1.0	3.6 1.2	4.2 1.5	4.9 1.7	5.6 1.9	6.3 2.2	7.0 2.5	7.7	8.3 3.0	8.9 3.2	9.4 3.5	9.8 3.7	10.1 3.9	10.3 4.1

NOTE: Seed rates shown in *bold italics* may be inconsistent

#### Seed Rate Charts for Turf Drive (Continued)

Seeu Rai												-									
Cup Setting	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Kentucky Blu	e Gra	ss (F	ounc	ls per	Acre	)															
High Range	0	15	21	30	43	60	79	101	125	151	179	207	237	267	297	326	355	383	410	435	457
Low Range	0	9	11	15	20	27	34	42	51	61	72	83	94	106	118	131	143	155	167	178	190
Kentucky Blu	e Gra	ss (F	ounc	ls per	1000	) Squ	are F	eet)													
High Range	0.0	0.3	0.5	0.7	1.0	1.4	1.8	2.3	2.9	3.5	4.1	4.8	5.4	6.1	6.8	7.5	8.2	8.8	9.4	10.0	10.5
Low Range	0.0	0.2	0.3	0.3	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.9	2.2	2.4	2.7	3.0	3.3	3.6	3.8	4.1	4.4
Lovegrass - S	Sand (	Poun	ids pe	er Acı	re)																
High Range	0	88	92	105	125	154	189	230	276	326	380	436	495	554	614	674	733	789	843	893	939
Low Range	0	12	27	42	57	71	85	99	113	127	142	157	173	190	208	228	249	271	295	321	349
Lovegrass - S	Sand (	Poun	ids pe	er 100	00 Sq	uare	Feet)														
High Range	0.0	2.0	2.1	2.4	2.9	3.5	4.3	5.3	6.3	7.5	8.7	10.0	11.4	12.7	14.1	15.5	16.8	18.1	19.4	20.5	21.6
Low Range	0.0	0.3	0.6	1.0	1.3	1.6	1.9	2.3	2.6	2.9	3.3	3.6	4.0	4.4	4.8	5.2	5.7	6.2	6.8	7.4	8.0
Lovegrass - V	Veeni	na (F	ound	ls per	Acre	)															
High Range	0	64	95	135	183	238	299	364	433	504	576	648	719	788	854	915	970	1018	1059	1090	1111
Low Range	0	11	26	45	66	90	116	144	173	203	234	265	296	326	355	383	409	433	454	471	486
Lovegrass - V					_		_	_	1	1200	1201	1200	1200	1020	1000	1000	1.00	1.00	1.01	1	1.00
High Range	0.0	1.5	2.2	3.1	4.2	5.5	6.9	8.4	9.9	11.6	13.2	14.9	16.5	18.1	19.6	21.0	22.3	23.4	24.3	25.0	25.5
Low Range	0.0	0.3	0.6	1.0	1.5	2.1	2.7	3.3	4.0	4.7	5.4	6.1	6.8	7.5	8.2	8.8	9.4	9.9	10.4	10.8	11.2
g_	10.0					1							10.0			10.0					
Orchard Gras		Inde	nor /																		
		1	<u> </u>		05	24	45	150	75	00	444	420	450	474	404	040	000	0.40	004	075	000
High Range Low Range	0	16 5	18 6	20 9	25 13	34 17	45 22	59 27	75 33	92 40	111 47	130 54	150 61	171 69	191 77	210 85	229 92	246 100	261 108	275 115	286 122
-			-		_			121	155	40	14/	104	101	103	111	105	32	100	100	1115	122
Orchard Gras	`	1	<u> </u>	-		1	- <u>ŕ</u>	1 2	4 7	21	25	20	25	20	4.4	10	5.2	EE	60	6.2	6.6
High Range	0.0	0.4	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	2.5	3.0	3.5	3.9	4.4	4.8	5.3	5.6	6.0	6.3	6.6
	`	1	<u> </u>	-		1	- <u>ŕ</u>	1.3 0.6	1.7 0.8	2.1 0.9	2.5 1.1	3.0 1.2	3.5 1.4	3.9 1.6	4.4 1.8	4.8 1.9	5.3 2.1	5.6 2.3	6.0 2.5	6.3 2.6	6.6 2.8
High Range Low Range	0.0	0.4 0.1	0.4	0.5 0.2	0.6	0.8	1.0	-	-	-	-	-	-		-		-	-		-	-
High Range Low Range <b>Rye Grass - A</b>	0.0 0.0	0.4 0.1	0.4 0.1 unds	0.5 0.2	0.6 0.3	0.8	1.0 0.5	0.6	0.8	0.9	1.1	1.2	1.4	1.6	1.8	1.9	2.1	2.3	2.5	2.6	2.8
High Range Low Range <b>Rye Grass - A</b> High Range	0.0 0.0 <b>Annua</b> 0	0.4 0.1 (Pot 48	0.4 0.1 unds 57	0.5 0.2 per A 71	0.6 0.3 Acre) 89	0.8 0.4 110	1.0 0.5 135	0.6	0.8	0.9	1.1 253	1.2 285	1.4 318	1.6 350	1.8 381	1.9 411	2.1 439	2.3 465	2.5 488	2.6 508	2.8 524
High Range Low Range <b>Rye Grass - A</b> High Range Low Range	0.0 0.0 0.0	0.4 0.1 (Pot 48 20	0.4 0.1 unds 57 23	0.5 0.2 <b>per</b> A 71 28	0.6 0.3 Acre) 89 35	0.8 0.4 110 43	1.0 0.5 135 54	0.6 162 65	0.8	0.9	1.1	1.2	1.4	1.6	1.8	1.9	2.1	2.3	2.5	2.6	2.8
High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A	0.0 0.0 0.0 0 0 0 0 0	0.4 0.1 48 20 I (Por	0.4 0.1 unds 57 23 unds	0.5 0.2 per A 71 28 per 1	0.6 0.3 (cre) 89 35 000 S	0.8 0.4 110 43 Squar	1.0 0.5 135 54 re Fee	0.6 162 65 et)	0.8 191 78	0.9 221 91	1.1 253 106	1.2 285 120	1.4 318 135	1.6 350 150	1.8 381 165	1.9 411 179	2.1 439 193	2.3 465 205	2.5 488 217	2.6 508 227	2.8 524 235
High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range	0.0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.4 0.1 48 20 I (Pot 1.1	0.4 0.1 unds 57 23 unds 1.3	0.5 0.2 <b>per</b> A 71 28 <b>per 1</b> 1.6	0.6 0.3 Acre) 89 35 000 \$ 2.0	0.8 0.4 110 43 Squar 2.5	1.0 0.5 135 54 <b>•e Fee</b> 3.1	0.6 162 65 et) 3.7	0.8 191 78 4.4	0.9 221 91 5.1	1.1 253 106 5.8	1.2 285 120 6.5	1.4 318 135 7.3	1.6 350 150 8.0	1.8 381 165 8.7	1.9 411 179 9.4	2.1 439 193 10.1	2.3 465 205 10.7	2.5 488 217 11.2	2.6 508 227 11.7	2.8 524 235 12.0
High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A	0.0 0.0 0.0 0 0 0 0 0	0.4 0.1 48 20 I (Por	0.4 0.1 unds 57 23 unds	0.5 0.2 per A 71 28 per 1	0.6 0.3 (cre) 89 35 000 S	0.8 0.4 110 43 Squar	1.0 0.5 135 54 re Fee	0.6 162 65 et)	0.8 191 78	0.9 221 91	1.1 253 106	1.2 285 120	1.4 318 135	1.6 350 150	1.8 381 165	1.9 411 179	2.1 439 193	2.3 465 205	2.5 488 217	2.6 508 227	2.8 524 235
High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range Low Range	0.0 0.0 0.0 0 0 0 0.0 0.0 0.0	0.4 0.1 48 20 I (Poi 1.1 0.5	0.4 0.1 unds 57 23 unds 1.3 0.5	0.5 0.2 <b>per</b> A 71 28 <b>per</b> 1 1.6 0.6	0.6 0.3 (0.3 89 35 000 \$ 2.0 0.8	0.8 0.4 110 43 Squar 2.5 1.0	1.0 0.5 135 54 <b>•e Fee</b> 3.1	0.6 162 65 et) 3.7	0.8 191 78 4.4	0.9 221 91 5.1	1.1 253 106 5.8	1.2 285 120 6.5	1.4 318 135 7.3	1.6 350 150 8.0	1.8 381 165 8.7	1.9 411 179 9.4	2.1 439 193 10.1	2.3 465 205 10.7	2.5 488 217 11.2	2.6 508 227 11.7	2.8 524 235 12.0
High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range	0.0 0.0 0.0 0 0 0 0.0 0.0 0.0	0.4 0.1 48 20 I (Poi 1.1 0.5	0.4 0.1 unds 57 23 unds 1.3 0.5	0.5 0.2 <b>per</b> A 71 28 <b>per</b> 1 1.6 0.6	0.6 0.3 (0.3 89 35 000 \$ 2.0 0.8	0.8 0.4 110 43 Squar 2.5 1.0	1.0 0.5 135 54 <b>•e Fee</b> 3.1	0.6 162 65 et) 3.7	0.8 191 78 4.4	0.9 221 91 5.1	1.1 253 106 5.8	1.2 285 120 6.5	1.4 318 135 7.3	1.6 350 150 8.0	1.8 381 165 8.7	1.9 411 179 9.4	2.1 439 193 10.1	2.3 465 205 10.7	2.5 488 217 11.2	2.6 508 227 11.7	2.8 524 235 12.0
High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range Low Range	0.0 0.0 0.0 0 0 0 0.0 0.0 0.0	0.4 0.1 48 20 I (Poi 1.1 0.5	0.4 0.1 unds 57 23 unds 1.3 0.5	0.5 0.2 <b>per</b> A 71 28 <b>per</b> 1 1.6 0.6	0.6 0.3 (0.3 89 35 000 \$ 2.0 0.8	0.8 0.4 110 43 Squar 2.5 1.0	1.0 0.5 135 54 <b>•e Fee</b> 3.1	0.6 162 65 et) 3.7	0.8 191 78 4.4	0.9 221 91 5.1	1.1 253 106 5.8	1.2 285 120 6.5	1.4 318 135 7.3	1.6 350 150 8.0	1.8 381 165 8.7	1.9 411 179 9.4	2.1 439 193 10.1	2.3 465 205 10.7	2.5 488 217 11.2	2.6 508 227 11.7	2.8 524 235 12.0
High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range Low Range Rye Grass - P High Range Low Range	0.0 0.0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.4 0.1 48 20 1 (Po) 1.1 0.5 <b>ial</b> (I 24 22	0.4 0.1 57 23 unds 1.3 0.5 Poune 46 25	0.5 0.2 <b>per</b> A 71 28 <b>per</b> 1 1.6 0.6 <b>ds pe</b> 73 31	0.6 0.3 89 35 000 \$ 2.0 0.8 r Acre 105 41	0.8 0.4 110 43 Squar 2.5 1.0 2.5 1.0	1.0 0.5 135 54 <b>:e Fee</b> 3.1 1.2 179 68	0.6 162 65 2t) 3.7 1.5 220 84	0.8 191 78 4.4 1.8	0.9 221 91 5.1 2.1	1.1 253 106 5.8 2.4	1.2         285         120         6.5         2.8	1.4         318         135         7.3         3.1	1.6 350 150 8.0 3.4	1.8         381         165         8.7         3.8	1.9 411 179 9.4 4.1	2.1 439 193 10.1 4.4	2.3 465 205 10.7 4.7	2.5 488 217 11.2 5.0	2.6 508 227 11.7 5.2	2.8 524 235 12.0 5.4
High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range Low Range Rye Grass - P High Range	0.0 0.0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.4 0.1 48 20 1 (Po) 1.1 0.5 <b>ial</b> (I 24 22	0.4 0.1 57 23 unds 1.3 0.5 Poune 46 25	0.5 0.2 <b>per</b> A 71 28 <b>per</b> 1 1.6 0.6 <b>ds pe</b> 73 31	0.6 0.3 89 35 000 \$ 2.0 0.8 r Acre 105 41	0.8 0.4 110 43 Squar 2.5 1.0 2.5 1.0	1.0 0.5 135 54 <b>:e Fee</b> 3.1 1.2 179 68	0.6 162 65 2t) 3.7 1.5 220 84	0.8 191 78 4.4 1.8 263	0.9 221 91 5.1 2.1 307	1.1 253 106 5.8 2.4 352	1.2           285           120           6.5           2.8           396	1.4 318 135 7.3 3.1 439	1.6 350 150 8.0 3.4 480	1.8         381         165         8.7         3.8         519	1.9 411 179 9.4 4.1 555	2.1 439 193 10.1 4.4 588	2.3 465 205 10.7 4.7 615	2.5 488 217 11.2 5.0 638	2.6 508 227 11.7 5.2 655	2.8 524 235 12.0 5.4 666
High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range Low Range Rye Grass - P High Range Low Range	0.0 0.0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.4 0.1 48 20 1 (Pool 1.1 0.5 <b>nial</b> (I 24 22 <b>nial</b> (I 0.5	0.4 0.1 57 23 unds 1.3 0.5 Poune 46 25	0.5 0.2 <b>per</b> A 71 28 <b>per</b> 1 1.6 0.6 <b>ds pe</b> 73 31	0.6 0.3 89 35 000 \$ 2.0 0.8 r Acre 105 41	0.8 0.4 110 43 Squar 2.5 1.0 2.5 1.0	1.0 0.5 135 54 <b>:e Fee</b> 3.1 1.2 179 68	0.6 162 65 2t) 3.7 1.5 220 84	0.8 191 78 4.4 1.8 263	0.9 221 91 5.1 2.1 307	1.1 253 106 5.8 2.4 352	1.2           285           120           6.5           2.8           396	1.4 318 135 7.3 3.1 439	1.6 350 150 8.0 3.4 480	1.8         381         165         8.7         3.8         519	1.9 411 179 9.4 4.1 555	2.1 439 193 10.1 4.4 588	2.3 465 205 10.7 4.7 615	2.5 488 217 11.2 5.0 638	2.6 508 227 11.7 5.2 655	2.8 524 235 12.0 5.4 666
High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range Low Range Rye Grass - P High Range Low Range Rye Grass - P	0.0 0.0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.4 0.1 48 20 I (Por 1.1 0.5 Nial (I 24 22 Nial (I	0.4 0.1 57 23 unds 1.3 0.5 Pound 46 25 Pound	0.5 0.2 <b>per</b> A 71 28 <b>per</b> 1 1.6 0.6 <b>ds</b> pe 73 31 ds pe	0.6 0.3 89 35 000 \$ 2.0 0.8 r Acre 105 41 r 1000	0.8 0.4 110 43 <b>Squar</b> 2.5 1.0 141 53 <b>O Squ</b>	1.0 0.5 54 <b>re Fee</b> 3.1 1.2 179 68 <b>Jare F</b>	0.6 162 65 et) 3.7 1.5 220 84 <b>-eet</b> )	0.8 191 78 4.4 1.8 263 102	0.9 221 91 5.1 2.1 307 121	1.1 253 106 5.8 2.4 352 141	1.2           285           120           6.5           2.8           396           160	1.4 318 135 7.3 3.1 439 179	1.6 350 150 8.0 3.4 480 198	1.8         381         165         8.7         3.8         519         215	1.9 411 179 9.4 4.1 555 231	2.1 439 193 10.1 4.4 588 245	2.3 465 205 10.7 4.7 615 256	2.5 488 217 11.2 5.0 638 264	2.6 508 227 11.7 5.2 655 269	2.8 524 235 12.0 5.4 666 271
High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range Low Range Rye Grass - P High Range Low Range Rye Grass - P High Range	0.0 0.0 0.0 0 0 0.0 0.0 0.0 0 0 0 0 0 0	0.4 0.1 48 20 1 (Pool 1.1 0.5 <b>nial</b> (I 24 22 <b>nial</b> (I 0.5	0.4 0.1 0.1 57 23 unds 1.3 0.5 Pound 46 25 Pound 1.1	0.5 0.2 <b>per</b> A 71 28 <b>per</b> 1 1.6 0.6 <b>ds</b> pe 73 31 <b>ds</b> pe 1.7	0.6 0.3 89 35 000 \$ 2.0 0.8 r Acre 105 41 r 1000 2.4	0.8 0.4 110 43 <b>3</b> <b>4</b> 2.5 1.0 141 53 <b>3</b> .2	1.0 0.5 54 <b>*e Fee</b> 3.1 1.2 179 68 <b>Jare F</b> 4.1	0.6 162 65 et) 3.7 1.5 220 84 <b>Feet</b> ) 5.1	0.8 191 78 4.4 1.8 263 102 6.0	0.9 221 91 5.1 2.1 307 121 7.1	1.1 253 106 5.8 2.4 352 141 8.1	1.2 285 120 6.5 2.8 396 160 9.1	1.4 318 135 7.3 3.1 439 179 10.1	1.6 350 150 8.0 3.4 480 198 11.0	1.8           381           165           8.7           3.8           519           215           11.9	1.9 411 179 9.4 4.1 555 231 12.7	2.1 439 193 10.1 4.4 588 245 13.5	2.3 465 205 10.7 4.7 615 256 14.1	2.5 488 217 11.2 5.0 638 264 14.7	2.6 508 227 11.7 5.2 655 269 15.0	2.8 524 235 12.0 5.4 6666 271 15.3
High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range Low Range Rye Grass - P High Range Low Range Rye Grass - P High Range	0.0 0.0 0.0 0 0 0.0 0.0 0.0 0 0 0 0 0 0	0.4 0.1 1 (Poo 48 20 1 (Poo 1.1 0.5 1.1 0.5 0.5 0.5	0.4 0.1 0.1 57 23 0.5 1.3 0.5 Pount 46 25 Pount 1.1 0.6	0.5 0.2 <b>per</b> A 71 28 <b>per</b> 1 1.6 0.6 <b>X</b> <b>X</b> 31 <b>X</b> <b>X</b> <b>X</b> <b>X</b> <b>X</b> <b>X</b> <b>X</b> <b>X</b> <b>X</b> <b>X</b>	0.6 0.3 89 35 000 \$ 2.0 0.8 r Acre 105 41 r 1000 2.4	0.8 0.4 110 43 <b>3</b> <b>4</b> 2.5 1.0 141 53 <b>3</b> .2	1.0 0.5 54 <b>*e Fee</b> 3.1 1.2 179 68 <b>Jare F</b> 4.1	0.6 162 65 et) 3.7 1.5 220 84 <b>Feet</b> ) 5.1	0.8 191 78 4.4 1.8 263 102 6.0	0.9 221 91 5.1 2.1 307 121 7.1	1.1 253 106 5.8 2.4 352 141 8.1	1.2 285 120 6.5 2.8 396 160 9.1	1.4 318 135 7.3 3.1 439 179 10.1	1.6 350 150 8.0 3.4 480 198 11.0	1.8           381           165           8.7           3.8           519           215           11.9	1.9 411 179 9.4 4.1 555 231 12.7	2.1 439 193 10.1 4.4 588 245 13.5	2.3 465 205 10.7 4.7 615 256 14.1	2.5 488 217 11.2 5.0 638 264 14.7	2.6 508 227 11.7 5.2 655 269 15.0	2.8 524 235 12.0 5.4 6666 271 15.3
High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range Low Range Rye Grass - P High Range Low Range Rye Grass - P High Range Low Range Sudan Grass	0.0 0.0 0.0 0 0 0.0 0.0 0.0 0 0 0 0 0 0	0.4 0.1 1 (Por 48 20 1 (Por 1.1 0.5 1.1 0.5 0.5 0.5 0.5	0.4 0.1 0.1 57 23 0.5 1.3 0.5 Pount 46 25 Pount 1.1 0.6	0.5 0.2 <b>per</b> A 71 28 <b>per</b> 1 1.6 0.6 <b>X</b> <b>X</b> 31 <b>X</b> <b>X</b> <b>X</b> <b>X</b> <b>X</b> <b>X</b> <b>X</b> <b>X</b> <b>X</b> <b>X</b>	0.6 0.3 89 35 000 \$ 2.0 0.8 r Acre 105 41 r 1000 2.4 0.9	0.8 0.4 110 43 <b>3</b> <b>4</b> 2.5 1.0 141 53 <b>3</b> .2	1.0 0.5 54 <b>ce Fee</b> 3.1 1.2 179 68 <b>Jare F</b> 4.1 1.6	0.6 162 65 et) 3.7 1.5 220 84 <b>Feet</b> ) 5.1	0.8 191 78 4.4 1.8 263 102 6.0 2.3	0.9 221 91 5.1 2.1 307 121 7.1 2.8	1.1           253           106           5.8           2.4           352           141           8.1           3.2	1.2 285 120 6.5 2.8 396 160 9.1 3.7	1.4 318 135 7.3 3.1 439 179 10.1 4.1	1.6           350           150           8.0           3.4           480           198           11.0           4.5	1.8           381           165           8.7           3.8           519           215           11.9	1.9 411 179 9.4 4.1 5555 231 12.7 5.3	2.1 439 193 10.1 4.4 588 245 5.6	2.3 465 205 10.7 4.7 615 256 14.1	2.5 488 217 11.2 5.0 638 264 14.7	2.6 508 227 11.7 5.2 655 269 15.0 6.2	2.8 524 235 12.0 5.4 6666 271 15.3
High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range Low Range Rye Grass - P High Range Low Range Rye Grass - P High Range Low Range	0.0 0.0 0.0 0 0 0.0 0.0 0.0 0.0 0 0 0 0	0.4 0.1 1 (Poo 48 20 1 (Poo 1.1 0.5 1.1 0.5 0.5 0.5	0.4 0.1 0.1 23 23 1.3 0.5 Pounds 46 25 Pound 46 25 Pound 1.1 0.6	0.5 0.2 <b>per A</b> 28 <b>per 1</b> 1.6 0.6 73 31 ds pe 1.7 0.7	0.6 0.3 89 35 000 \$ 2.0 0.8 r Acre 105 41 r 1000 2.4	0.8 0.4 110 43 <b>Squar</b> 2.5 1.0 141 53 <b>O Squ</b> 3.2 1.2	1.0 0.5 54 <b>*e Fee</b> 3.1 1.2 179 68 <b>Jare F</b> 4.1	0.6 162 65 2t) 3.7 1.5 220 84 5.1 1.9	0.8 191 78 4.4 1.8 263 102 6.0	0.9 221 91 5.1 2.1 307 121 7.1	1.1 253 106 5.8 2.4 352 141 8.1	1.2 285 120 6.5 2.8 396 160 9.1	1.4 318 135 7.3 3.1 439 179 10.1	1.6 350 150 8.0 3.4 480 198 11.0	1.8         381         165         8.7         3.8         519         215         11.9         4.9	1.9 411 179 9.4 4.1 555 231 12.7	2.1 439 193 10.1 4.4 588 245 13.5	2.3 465 205 10.7 4.7 615 256 14.1 5.9	2.5 488 217 11.2 5.0 638 264 14.7 6.1	2.6 508 227 11.7 5.2 655 269 15.0	2.8 524 235 12.0 5.4 666 271 15.3 6.2
High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range Low Range Rye Grass - P High Range Low Range Rye Grass - P High Range Low Range Sudan Grass High Range	0.0 0.0 0.0 0 0 0.0 0.0 0.0 0 0 0 0 0 0	0.4 0.1 1 (Por 48 20 1 (Por 1.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.4 0.1 0.1 57 23 0.5 1.3 0.5 7 0.0 46 25 Pouni 46 25 Pouni 1.1 0.6 8 7 6 7 3 1	0.5 0.2 <b>per</b> A 71 28 <b>per</b> 1 1.6 0.6 <b>X</b> <b>X</b> 31 <b>X</b> <b>X</b> <b>X</b> <b>X</b> <b>X</b> <b>X</b> <b>X</b> <b>X</b> <b>X</b> <b>X</b>	0.6 0.3 89 35 000 \$ 2.0 0.8 r Acre 105 41 r 1000 2.4 0.9	0.8 0.4 110 43 <b>Squar</b> 2.5 1.0 141 53 <b>O Squ</b> 3.2 1.2 1.2	1.0 0.5 54 <b>*e Fee</b> 3.1 1.2 179 68 <b>Jare F</b> 4.1 1.6 <b>*</b> 253 99	0.6 162 65 201 3.7 1.5 220 84 5.1 1.9 311	0.8 191 78 4.4 1.8 263 102 6.0 2.3 372	0.9 221 91 5.1 2.1 307 121 7.1 2.8 435	1.1 253 106 5.8 2.4 352 141 8.1 3.2	1.2 285 120 6.5 2.8 396 160 9.1 3.7	1.4           318           135           7.3           3.1           439           179           10.1           4.1	1.6 350 150 8.0 3.4 198 480 198 11.0 4.5	1.8 381 165 8.7 3.8 519 215 11.9 4.9	1.9 411 179 9.4 4.1 5555 231 12.7 5.3 828	2.1 439 193 10.1 4.4 588 245 5.6 13.5 5.6	2.3 465 205 10.7 4.7 615 256 14.1 5.9 948	2.5 488 217 11.2 5.0 638 264 14.7 6.1	2.6 508 227 11.7 5.2 655 269 15.0 6.2 1053	2.8 524 235 12.0 5.4 666 271 15.3 6.2
High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range Low Range Rye Grass - P High Range Low Range Rye Grass - P High Range Low Range Sudan Grass High Range	0.0 0.0 0.0 0 0 0.0 0.0 0.0 0 0 0 0 0 0	0.4 0.1 1 (Por 48 20 1 (Por 1.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.4 0.1 0.1 57 23 0.5 1.3 0.5 7 0.5 7 0.0 46 25 7 0.0 1.1 0.6 8 7 0.6 8 7 8 7 8 9 0.0 1 9 9 0 0 1 9 9 0 1 9 1 9 1 9 1 9 1 9	0.5 0.2 <b>per</b> A 71 28 <b>per</b> 1 1.6 0.6 <b>X</b> <b>X</b> 31 <b>X</b> <b>X</b> <b>X</b> <b>X</b> <b>X</b> <b>X</b> <b>X</b> <b>X</b> <b>X</b> <b>X</b>	0.6 0.3 89 35 000 \$ 2.0 0.8 r Acre 105 41 r 1000 2.4 0.9	0.8 0.4 110 43 <b>Squar</b> 2.5 1.0 141 53 <b>O Squ</b> 3.2 1.2 1.2	1.0 0.5 54 <b>*e Fee</b> 3.1 1.2 179 68 <b>Jare F</b> 4.1 1.6 <b>*</b> 253 99	0.6 162 65 201 3.7 1.5 220 84 5.1 1.9 311	0.8 191 78 4.4 1.8 263 102 6.0 2.3 372	0.9 221 91 5.1 2.1 307 121 7.1 2.8 435	1.1 253 106 5.8 2.4 352 141 8.1 3.2	1.2 285 120 6.5 2.8 396 160 9.1 3.7	1.4           318           135           7.3           3.1           439           179           10.1           4.1	1.6 350 150 8.0 3.4 198 480 198 11.0 4.5	1.8 381 165 8.7 3.8 519 215 11.9 4.9	1.9 411 179 9.4 4.1 555 231 12.7 5.3	2.1 439 193 10.1 4.4 588 245 5.6 13.5 5.6	2.3 465 205 10.7 4.7 615 256 14.1 5.9 948	2.5 488 217 11.2 5.0 638 264 14.7 6.1	2.6 508 227 11.7 5.2 655 269 15.0 6.2 1053	2.8 524 235 12.0 5.4 666 271 15.3 6.2
High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range Low Range Rye Grass - P High Range Low Range Sudan Grass High Range Low Range	0.0 0.0 0.0 0 0 0 0.0 0.0 0 0 0 0 0 0 0	0.4 0.1 1 (Poi 48 20 1 (Poi 1.1 0.5 1.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.4 0.1 0.1 1.3 0.5 1.3 0.5 Pount 46 25 Pount 1.1 0.6 er Ac 67 31 er 10	0.5 0.2 <b>per A</b> 1.6 0.6 73 31 ds pe 1.7 0.7 <b>re</b> ) 105 42 00 Sc	0.6 0.3 89 35 000 \$ 2.0 0.8 r Acre 105 41 r 1000 2.4 0.9 150 57 quare	0.8 0.4 110 43 <b>Squar</b> 2.5 1.0 141 53 <b>O Squ</b> 3.2 1.2 199 76 <b>Feet</b>	1.0 0.5 54 6 Fee 3.1 1.2 179 68 Jare F 4.1 1.6 253 99 )	0.6 162 65 et) 3.7 1.5 220 84 5.1 1.9 311 125	0.8 191 78 4.4 1.8 263 102 6.0 2.3 372 153	0.9 221 91 5.1 2.1 307 121 7.1 2.8 435 183	1.1 253 106 5.8 2.4 352 141 8.1 3.2 500 214	1.2           285           120           6.5           2.8           396           160           9.1           3.7           566           245	1.4           318           135           7.3           3.1           439           179           10.1           4.1           633           277	1.6           350           150           8.0           3.4           480           198           111.0           4.5           699           308	1.8 381 165 8.7 3.8 519 215 11.9 4.9 764 337	1.9 411 179 9.4 4.1 555 231 12.7 5.3 828 365	2.1 439 193 10.1 4.4 588 245 5.6 13.5 5.6 889 391	2.3 465 205 10.7 4.7 615 256 14.1 5.9 948 414	2.5 488 217 11.2 5.0 638 264 14.7 6.1 1002 433	2.6 508 227 11.7 5.2 655 269 15.0 6.2 1053 448	2.8 524 235 12.0 5.4 6666 271 15.3 6.2 1098 458
High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range Low Range Rye Grass - P High Range Low Range Sudan Grass High Range Low Range Sudan Grass High Range	0.0           0.0           0.0           0           0           0           0.0	0.4 0.1 1 (Por 1 (Por 1.1 0.5 1 (Por 1.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.4 0.1 0.1 0.1 23 0.5 1.3 0.5 7 0.0 46 25 0.0 46 25 0.0 1.1 0.6 8 7 0.0 1.1 0.6 8 7 0.0 1.1 0.6 9 00 1.1 1.3 0.5 7 1.3 0.5 7 1.3 0.5 7 1.3 0.5 7 1.3 0.5 7 1.3 0.5 7 1.3 0.5 7 1.3 0.5 7 1.3 0.5 7 1.3 1.3 0.5 7 1.3 0.5 7 1.3 1.3 0.5 7 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.5 7 1.3 1.3 1.3 1.3 1.5 7 1.3 1.3 1.3 1.5 7 7 1.5 7 7 1.5 7 7 7 1.5 7 7 7 1.5 7 7 7 1.5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0.5 0.2 71 28 per 1 1.6 0.6 73 31 ds pe 1.7 0.7 re) 105 42 00 Sc 2.4	0.6 0.3 89 35 000 \$ 2.0 0.8 r Acre 105 41 r 1000 2.4 0.9 150 57 quare 3.4	0.8 0.4 110 43 <b>Squar</b> 2.5 1.0 141 53 <b>O Squ</b> 3.2 1.2 199 76 <b>Feet</b> 4.6	1.0 0.5 54 <b>ce Fee</b> 3.1 1.2 179 68 <b>Jare F</b> 4.1 1.6 <b>2</b> 53 99 <b>)</b> 5.8	0.6 162 65 220 84 5.1 1.9 311 125 7.1	0.8 191 78 4.4 1.8 263 102 6.0 2.3 372 153 8.5	0.9         221         91         5.1         2.1         307         121         7.1         2.8         435         183         10.0	1.1 253 106 5.8 2.4 352 141 8.1 3.2 500 214 11.5	1.2 285 120 6.5 2.8 396 160 9.1 3.7 566 245 13.0	1.4 318 135 7.3 3.1 439 179 10.1 4.1 633 277 14.5	1.6 350 150 8.0 3.4 198 480 198 111.0 4.5 699 308 16.0	1.8           381           165           8.7           3.8           519           215           11.9           4.9           764           337           17.5	1.9 411 179 9.4 4.1 5555 231 12.7 5.3 828 365 19.0	2.1 439 193 10.1 4.4 588 245 5.6 13.5 5.6 889 391 20.4	2.3 465 205 10.7 4.7 615 256 14.1 5.9 948 414 21.8	2.5 488 217 11.2 5.0 638 264 14.7 6.1 1002 433 23.0	2.6 508 227 11.7 5.2 655 269 15.0 6.2 1053 448 24.2	2.8 524 235 12.0 5.4 6666 271 15.3 6.2 1098 458 25.2
High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range Low Range Rye Grass - P High Range Low Range Sudan Grass High Range Low Range Sudan Grass High Range Low Range	0.0           0.0           0.0           0           0           0           0.0	0.4 0.1 1 (Poi 1 (Poi 1.1 0.5 1.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.4 0.1 0.1 0.1 1.3 0.5 7 23 0.5 1.3 0.5 7 0000 1.1 0.6 8 7 0000 1.1 0.6 8 7 0000 1.1 1.1 0.6 8 7 0000 1.1 1.3 0.5 7 8 7 8 9 0000 1 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1	0.5 0.2 71 28 per 1 1.6 0.6 73 31 ds pe 1.7 0.7 re) 105 42 00 Sc 2.4	0.6 0.3 89 35 000 \$ 2.0 0.8 r Acre 105 41 r 1000 2.4 0.9 150 57 quare 3.4	0.8 0.4 110 43 <b>Squar</b> 2.5 1.0 141 53 <b>O Squ</b> 3.2 1.2 199 76 <b>Feet</b> 4.6	1.0 0.5 54 <b>ce Fee</b> 3.1 1.2 179 68 <b>Jare F</b> 4.1 1.6 <b>2</b> 53 99 <b>)</b> 5.8	0.6 162 65 220 84 5.1 1.9 311 125 7.1	0.8 191 78 4.4 1.8 263 102 6.0 2.3 372 153 8.5	0.9         221         91         5.1         2.1         307         121         7.1         2.8         435         183         10.0	1.1 253 106 5.8 2.4 352 141 8.1 3.2 500 214 11.5	1.2 285 120 6.5 2.8 396 160 9.1 3.7 566 245 13.0	1.4 318 135 7.3 3.1 439 179 10.1 4.1 633 277 14.5	1.6 350 150 8.0 3.4 198 480 198 111.0 4.5 699 308 16.0	1.8           381           165           8.7           3.8           519           215           11.9           4.9           764           337           17.5	1.9 411 179 9.4 4.1 5555 231 12.7 5.3 828 365 19.0	2.1 439 193 10.1 4.4 588 245 5.6 13.5 5.6 889 391 20.4	2.3 465 205 10.7 4.7 615 256 14.1 5.9 948 414 21.8	2.5 488 217 11.2 5.0 638 264 14.7 6.1 1002 433 23.0	2.6 508 227 11.7 5.2 655 269 15.0 6.2 1053 448 24.2	2.8 524 235 12.0 5.4 6666 271 15.3 6.2 1098 458 25.2
High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range Low Range Rye Grass - P High Range Low Range Rye Grass - P High Range Low Range Sudan Grass High Range Low Range Sudan Grass High Range Low Range Sudan Grass High Range Low Range	0.0 0.0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.4 0.1 48 20 I (Por 1.1 0.5 1.1 0.5 1.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.4 0.1 57 23 unds 1.3 0.5 Pounds 25 Pound 1.1 0.6 25 Pound 1.1 0.6 er Ac 67 31 er 10 1.5 0.7	0.5 0.2 71 28 per 1 1.6 0.6 73 31 ds pe 1.7 0.7 1.7 0.7 1.7 0.7 1.7 0.7	0.6 0.3 89 35 000 \$ 2.0 0.8 105 41 r 1000 2.4 0.9 150 57 1150 57 2Uare 3.4 1.3	0.8 0.4 110 43 <b>Squar</b> 2.5 1.0 141 53 <b>Squ</b> 3.2 1.2 199 76 <b>Feet</b> 4.6 1.7	1.0 0.5 135 54 <b>e Fee</b> 3.1 1.2 179 68 <b>Jare F</b> 4.1 1.6 253 99 <b>)</b> 5.8 2.3	0.6 162 65 et) 3.7 1.5 220 84 5.1 1.9 311 125 7.1 2.9	0.8 191 78 4.4 1.8 263 102 6.0 2.3 372 153 8.5 3.5	0.9         221         91         5.1         2.1         307         121         7.1         2.8         435         183         10.0         4.2	1.1 253 106 5.8 2.4 352 141 8.1 3.2 500 214 11.5 4.9	1.2 285 120 6.5 2.8 396 160 9.1 3.7 5666 245 13.0 5.6	1.4           318           135           7.3           3.1           439           179           10.1           4.1           633           277           14.5           6.4	1.6           350           150           8.0           3.4           480           198           111.0           4.5           699           308           16.0           7.1	1.8           381           165           8.7           3.8           519           215           11.9           4.9           764           337           17.5           7.7	1.9 411 179 9.4 4.1 5555 231 12.7 5.3 828 365 19.0 8.4	2.1 439 193 10.1 4.4 245 5.6 889 391 20.4 9.0	2.3 465 205 10.7 4.7 5.9 948 414 21.8 9.5	2.5 488 217 11.2 5.0 638 264 14.7 6.1 1002 433 23.0 9.9	2.6 508 227 11.7 5.2 655 269 15.0 6.2 1053 448 24.2 10.3	2.8 524 235 12.0 5.4 6666 271 15.3 6.2 1098 458 25.2 10.5
High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range Low Range Rye Grass - P High Range Low Range Sudan Grass High Range Low Range Sudan Grass High Range Low Range Sudan Grass High Range Low Range Sudan Grass High Range Low Range	0.0           0.0           0.0           0           0           0           0           0.0	0.4 0.1 48 20 1 (Por 1.1 0.5 1.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.4 0.1 0.1 0.1 1.3 0.5 7 23 0.5 7 23 0.5 7 23 0.5 7 23 0.5 7 23 0.5 7 23 0.5 7 23 0.5 7 23 0.5 7 23 0.5 7 23 0.5 7 23 0.1 1.3 0.5 7 23 0.1 1.3 0.5 7 23 0.1 1.3 0.5 7 23 0.1 1.3 0.5 7 23 0.1 1.3 0.5 7 23 0.1 1.3 0.5 7 23 0.1 1.3 0.5 7 23 0.1 1.3 0.5 7 23 0.1 1.3 0.5 7 23 0.1 1.3 0.5 7 7 23 0.1 1.3 0.5 7 7 23 0.1 1.3 0.5 7 7 23 0.1 1.3 0.5 7 7 1.3 0.5 7 7 1.3 0.5 7 7 1.3 0.5 7 7 1.1 1.3 0.5 7 7 1.1 1.3 0.5 7 7 1.1 1.3 0.5 7 7 1.1 1.3 0.5 7 7 1.1 1.5 7 1.1 1.5 7 7 1.5 7 7 1.5 7 7 1.5 7 7 1.5 7 7 7 1.5 7 7 7 1.5 7 7 7 7 1.5 7 7 7 1.5 7 7 7 1.5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0.5 0.2 71 28 per 1 1.6 0.6 73 31 ds pe 73 31 ds pe 1.7 0.7 7 105 42 00 Sc 2.4 1.0	0.6 0.3 89 35 000 \$ 2.0 0.8 105 41 0.9 150 57 41 0.9 150 57 41 0.9	0.8 0.4 110 43 <b>Squar</b> 2.5 1.0 2.5 1.0 53 <b>Squ</b> 3.2 1.2 76 <b>Feet</b> 4.6 1.7	1.0 0.5 135 54 <b>re Fee</b> 3.1 1.2 179 68 <b>Jare F</b> 4.1 1.6 <b>2</b> 53 99 <b>)</b> 5.8 2.3	0.6 162 65 9t) 3.7 1.5 220 84 5.1 1.9 311 125 7.1 2.9 328	0.8 191 78 4.4 1.8 263 102 6.0 2.3 372 153 8.5 3.5 381	0.9         221         91         5.1         2.1         307         121         7.1         2.8         435         183         10.0         4.2         435	1.1 253 106 5.8 2.4 352 141 8.1 3.2 500 214 11.5 4.9	1.2 285 120 6.5 2.8 396 160 9.1 3.7 5666 245 13.0 5.6	1.4           318           313           7.3           3.1           439           179           10.1           4.1           633           277           14.5           6.4	1.6 350 150 8.0 3.4 198 480 198 111.0 4.5 699 308 16.0 7.1	1.8           381           165           8.7           3.8           519           215           11.9           4.9           764           337           17.5           7.7           711	1.9 411 179 9.4 4.1 5555 231 12.7 5.3 828 365 19.0 8.4 765	2.1 439 193 10.1 4.4 588 245 5.6 13.5 5.6 889 391 20.4 9.0 818	2.3 465 205 10.7 4.7 5.9 948 414 21.8 9.5 870	2.5 488 217 11.2 5.0 638 264 14.7 6.1 1002 433 23.0 9.9	2.6 508 227 11.7 5.2 655 269 15.0 6.2 1053 448 224.2 10.3	2.8 524 235 12.0 5.4 6666 271 15.3 6.2 1098 458 25.2 10.5
High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range Low Range Rye Grass - P High Range Low Range Sudan Grass High Range Low Range Sudan Grass High Range Low Range Sudan Grass High Range Low Range Sudan Grass High Range Low Range	0.0           0.0           0.0           0           0           0           0           0.0	0.4 0.1 48 20 1 (Por 1.1 0.5 1.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.4 0.4 0.1 1.3 0.5 7 23 unds 1.3 0.5 7 20 46 25 7 0 0 1.1 0.6 7 31 er Ac 67 31 er 10 1.5 0.7	0.5 0.2 71 28 per 1 1.6 0.6 73 31 ds pe 73 31 ds pe 1.7 0.7 7 105 42 00 Sc 2.4 1.0 133 42	0.6 0.3 89 35 000 \$ 2.0 0.8 105 41 0.9 150 57 41 0.9 150 57 3.4 1.3 178 59	0.8 0.4 110 43 <b>Squar</b> 2.5 1.0 141 53 <b>Squ</b> 3.2 1.2 199 76 <b>Feet</b> 4.6 1.7	1.0 0.5 135 54 <b>e Fee</b> 3.1 1.2 179 68 <b>Jare F</b> 4.1 1.6 253 99 <b>)</b> 5.8 2.3	0.6 162 65 et) 3.7 1.5 220 84 5.1 1.9 311 125 7.1 2.9	0.8 191 78 4.4 1.8 263 102 6.0 2.3 372 153 8.5 3.5	0.9         221         91         5.1         2.1         307         121         7.1         2.8         435         183         10.0         4.2	1.1 253 106 5.8 2.4 352 141 8.1 3.2 500 214 11.5 4.9	1.2 285 120 6.5 2.8 396 160 9.1 3.7 5666 245 13.0 5.6	1.4           318           135           7.3           3.1           439           179           10.1           4.1           633           277           14.5           6.4	1.6           350           150           8.0           3.4           480           198           111.0           4.5           699           308           16.0           7.1	1.8           381           165           8.7           3.8           519           215           11.9           4.9           764           337           17.5           7.7	1.9 411 179 9.4 4.1 5555 231 12.7 5.3 828 365 19.0 8.4	2.1 439 193 10.1 4.4 245 5.6 889 391 20.4 9.0	2.3 465 205 10.7 4.7 5.9 948 414 21.8 9.5	2.5 488 217 11.2 5.0 638 264 14.7 6.1 1002 433 23.0 9.9	2.6 508 227 11.7 5.2 655 269 15.0 6.2 1053 448 24.2 10.3	2.8 524 235 12.0 5.4 6666 271 15.3 6.2 1098 458 25.2 10.5
High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range Low Range Rye Grass - P High Range Low Range Sudan Grass High Range Low Range Sudan Grass High Range Low Range Sudan Grass High Range Low Range Sudan Grass High Range Low Range Vetch (Pounds High Range Low Range	0.0 0.0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.4 0.1 48 20 I (Po) 1.1 0.5 1.1 0.5 1.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.4 0.1 1.3 0.5 23 unds 1.3 0.5 Pound 1.3 25 Pound 1.1 0.6 25 Pound 1.1 0.6 67 31 er Ac 67 31 er 10 1.5 0.7	0.5 0.2 71 28 per 1 1.6 0.6 73 31 ds pe 73 31 ds pe 1.7 0.7 1.7 0.7 1.7 0.7 2.4 1.0 1.33 42 1.33 42 42	0.6 0.3 89 35 000 \$ 2.0 0.8 105 41 r Acre 105 41 cr 1000 2.4 0.9 150 57 2 uare 3.4 1.3 178 59 eet)	0.8 0.4 110 43 <b>Squar</b> 2.5 1.0 141 53 <b>Squ</b> 3.2 1.2 199 76 <b>Feet</b> 77 4.6 1.7	1.0 0.5 135 54 <b>e Fee</b> 3.1 1.2 179 68 <b>Jare F</b> 4.1 1.6 <b>2</b> 53 99 <b>)</b> 5.8 2.3 <b>5</b> .8 2.3	0.6 162 65 17 3.7 1.5 220 84 220 84 5.1 1.9 311 125 7.1 2.9 328 117	0.8 191 78 4.4 1.8 263 102 6.0 2.3 372 153 8.5 3.5 381 138	0.9         221         91         5.1         2.1         307         121         7.1         2.8         435         183         10.0         4.2         435         160	1.1 253 106 5.8 2.4 352 141 8.1 3.2 500 214 11.5 4.9 490 183	1.2 285 120 6.5 2.8 396 160 9.1 3.7 566 245 13.0 5.6 546 206	1.4           318           135           7.3           3.1           439           179           10.1           4.1           633           277           14.5           6.4           601           229	1.6 350 150 8.0 3.4 198 480 198 4.5 699 308 16.0 7.1 656 253	1.8           381           165           8.7           3.8           519           215           11.9           4.9           764           337           7764           377           7711           276	1.9 411 179 9.4 4.1 5555 231 12.7 5.3 828 365 828 365 19.0 8.4 765 299	2.1 439 193 10.1 4.4 588 245 5.6 13.5 5.6 889 391 20.4 9.0 818 322	2.3 465 205 10.7 4.7 5.9 14.1 5.9 948 414 21.8 9.5 870 344	2.5 488 217 11.2 5.0 638 264 14.7 6.1 1002 433 23.0 9.9 920 366	2.6 508 227 11.7 5.2 655 269 15.0 6.2 1053 448 24.2 10.3 968 387	2.8 524 235 12.0 5.4 6666 271 15.3 6.2 1098 458 25.2 10.5 1013 407
High Range Low Range Rye Grass - A High Range Low Range Rye Grass - A High Range Low Range Rye Grass - P High Range Low Range Sudan Grass High Range Low Range Sudan Grass High Range Low Range Sudan Grass High Range Low Range Sudan Grass High Range Low Range	0.0           0.0           0.0           0           0           0           0           0.0	0.4 0.1 48 20 1 (Por 1.1 0.5 1.1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.4 0.4 0.1 1.3 0.5 7 23 unds 1.3 0.5 7 20 46 25 7 0 0 1.1 0.6 7 31 er Ac 67 31 er 10 1.5 0.7	0.5 0.2 71 28 per 1 1.6 0.6 73 31 ds pe 73 31 ds pe 1.7 0.7 7 105 42 00 Sc 2.4 1.0 133 42	0.6 0.3 89 35 000 \$ 2.0 0.8 105 41 0.9 150 57 41 0.9 150 57 3.4 1.3 178 59	0.8 0.4 110 43 <b>Squar</b> 2.5 1.0 2.5 1.0 53 <b>Squ</b> 3.2 1.2 76 <b>Feet</b> 4.6 1.7	1.0 0.5 135 54 <b>re Fee</b> 3.1 1.2 179 68 <b>Jare F</b> 4.1 1.6 <b>2</b> 53 99 <b>)</b> 5.8 2.3	0.6 162 65 9t) 3.7 1.5 220 84 5.1 1.9 311 125 7.1 2.9 328	0.8 191 78 4.4 1.8 263 102 6.0 2.3 372 153 8.5 3.5 381	0.9         221         91         5.1         2.1         307         121         7.1         2.8         435         183         10.0         4.2         435	1.1 253 106 5.8 2.4 352 141 8.1 3.2 500 214 11.5 4.9	1.2 285 120 6.5 2.8 396 160 9.1 3.7 5666 245 13.0 5.6	1.4           318           135           7.3           3.1           439           179           10.1           4.1           633           277           14.5           6.4	1.6 350 150 8.0 3.4 198 480 198 111.0 4.5 699 308 16.0 7.1	1.8           381           165           8.7           3.8           519           215           11.9           4.9           764           337           17.5           7.7           711	1.9 411 179 9.4 4.1 5555 231 12.7 5.3 828 365 19.0 8.4 765	2.1 439 193 10.1 4.4 588 245 5.6 13.5 5.6 889 391 20.4 9.0 818	2.3 465 205 10.7 4.7 5.9 948 414 21.8 9.5 870	2.5 488 217 11.2 5.0 638 264 14.7 6.1 1002 433 23.0 9.9	2.6 508 227 11.7 5.2 655 269 15.0 6.2 1053 448 224.2 10.3	2.8 524 235 12.0 5.4 6666 271 15.3 6.2 1098 458 25.2 10.5

#### Seed Rate Charts for Turf Drive (Continued)

										-		/									
Cup Setting	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Wheatgrass -	Cres	ted (F	Pound	ds pe	r Acre	e)															
High Range	0	34	34	39	48	60	76	93	113	135	157	180	204	227	249	270	289	307	321	333	341
Low Range	0	6	10	15	21	27	34	41	49	57	65	74	83	92	101	110	118	127	136	144	152
Wheatgrass -	Cres	ted (F	ouno	ds pe	r 1000	) Squ	iare F	eet)													
High Range	0.0	0.8	0.8	0.9	1.1	1.4	1.7	2.1	2.6	3.1	3.6	4.1	4.7	5.2	5.7	6.2	6.6	7.0	7.4	7.6	7.8
Low Range	0.0	0.1	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.5
Wheatgrass -	West	ern (	Poun	ds pe	r Acre	e)															
High Range	0	9	16	25	36	49	64	80	97	115	133	152	171	189	206	223	239	253	266	276	285
Low Range	0	7	9	12	16	22	28	36	44	53	62	71	80	89	98	107	115	122	128	133	137
Wheatgrass -	West	ern (	Poun	ds pe	r 100	0 Sqi	Jare F	eet)													
High Range	0.0	0.2	0.4	0.6	0.8	1.1	1.5	1.8	2.2	2.6	3.1	3.5	3.9	4.3	4.7	5.1	5.5	5.8	6.1	6.3	6.5
Low Range	0.0	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.3	2.4	2.6	2.8	2.9	3.1	3.1

#### **Metric Seed Rate Charts for Turf Drive**

0 0 11																_					
Cup Setting	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Alfalfa (Kilogra	ams p	er He	ectare	2)																	
High Range	0	41	73	114	163	219	281	349	421	497	576	656	738	819	901	980	1057	1132	1201	1266	1326
Low Range	0	9	19	46	73	102	130	160	190	220	252	284	316	349	383	417	451	487	523	559	597
Alfalfa (Kilogr	ams p	er 10	00 So	quare	Mete	rs)															
High Range	0.0	4.1	7.3	11.4	16.3	21.9	28.1	34.9	42.1	49.7	57.5	65.6	73.8	81.9	90.1	98.0	105.7	113.1	120.1	126.6	132.6
Low Range	0.0	0.9	1.8	4.6	7.3	10.1	13.0	16.0	19.0	22.0	25.2	28.3	31.6	34.9	38.2	41.7	45.1	48.7	52.3	55.9	59.7
Bent Grass (	Kilogra	ims p	er He	ectare	)																
High Range	0	29	53	80	, 111	144	180	217	256	296	336	376	415	454	491	526	559	589	615	637	655
Low Range	0	14	22	32	43	55	69	84	99	115	131	147	163	179	194	208	220	232	242	250	256
Bent Grass (	Kilogra	ms p	er 10	00 Sc	luare	Mete	rs)						•								
High Range	0.0	2.9	5.3	8.0	11.1	14.4	17.9	21.7	25.6	29.6	33.6	37.6	41.5	45.4	49.1	52.6	55.9	58.9	61.5	63.7	65.5
Low Range	0.0	1.4	2.2	3.1	4.3	5.5	6.9	8.3	9.9	11.5	13.1	14.7	16.3	17.9	19.3	20.8	22.0	23.2	24.2	25.0	25.6
Bermuda (Kilo	arams	per	Hecta	are)																	
High Range	0	67	84	106	133	163	196	232	271	312	354	397	441	484	527	570	610	649	686	720	751
<u> </u>	0	16	28	41	54	67	81	95	110	124	139	154	169	185	201	217	233	249	266	282	299
Low Range							- ·	95	110	124	139	154	169	100	201	217	233	249	200	202	299
Bermuda (Kild	- <b>-</b>	s per		Squa	-	eters)	)														
High Range	0.0	6.7	8.4	10.6	13.3	16.3	19.6	23.2	27.1	31.2	35.4	39.7	44.0	48.4	52.7	57.0	61.0	64.9	68.6	72.0	75.1
Low Range	0.0	1.6	2.8	4.1	5.4	6.7	8.1	9.5	10.9	12.4	13.9	15.4	16.9	18.5	20.1	21.7	23.3	24.9	26.6	28.2	29.9
<b>Buffalo Grass</b>	s (Kilo	gram	s per	Hecta	are)																
High Range	0	31	37	48	63	83	106	132	160	189	218	247	276	303	328	350	369	383	393	396	407
								= 0	66	78	00	404	440	122	132	141	149	155	160	163	164
Low Range	0	11	15	20	28	36	45	56	60	/8	89	101	112	122	132	141	149	155	100	100	
Low Range Buffalo Grass	, v	1			-				00	78	89	101	112	122	132	141	149	155	100	100	1
0	, v	1			-				16.0	18.9	21.8	24.7	27.6	30.3	32.8	35.0	36.9	38.3	39.2	39.6	40.7
Buffalo Grass	s (Kilo	gram	s per	1000	Squa	re M	eters)	)	1			ı	г I	1		1	1	1		1	
Buffalo Grass	<b>s (Kilo</b> 0.0	gram 3.1	s per 3.7	1000 4.8	Squa 6.3	re M 8.3	eters)	13.2	16.0	18.9	21.8	24.7	27.6	30.3	32.8	35.0	36.9	38.3	39.2	39.6	40.7
Buffalo Grass High Range Low Range	6 (Kilo) 0.0 0.0	gram 3.1 1.0	s per 3.7 1.5	1000 4.8 2.0	Squa 6.3 2.8	re M 8.3	eters)	13.2	16.0	18.9	21.8	24.7	27.6	30.3	32.8	35.0	36.9	38.3	39.2	39.6	40.7
Buffalo Grass	6 (Kilo) 0.0 0.0	gram 3.1 1.0	s per 3.7 1.5	1000 4.8 2.0	Squa 6.3 2.8	re M 8.3	eters)	13.2	16.0	18.9	21.8	24.7	27.6	30.3	32.8	35.0	36.9	38.3	39.2	39.6	40.7
Buffalo Grass High Range Low Range Clover - Ladin	s (Kilo) 0.0 0.0	gram 3.1 1.0 ograi	s per 3.7 1.5	1000 4.8 2.0 er Hec	Squa 6.3 2.8 tare)	8.3 3.6	eters) 10.6 4.5	13.2 5.6	16.0 6.6	18.9 7.8	21.8 8.9	24.7 10.1	27.6 11.2	30.3 12.2	32.8 13.2	35.0 14.1	36.9 14.9	38.3 15.5	39.2 16.0	39.6 16.3	40.7
Buffalo Grass High Range Low Range Clover - Ladir High Range Low Range	<b>i</b> (Kilo) 0.0 0.0 <b>io</b> (Kil	gram 3.1 1.0 ograi 54 23	s per 3.7 1.5 ms pe 80 31	1000 4.8 2.0 er Hec 115 44	Squa 6.3 2.8 tare) 158 61	8.3 3.6 209 82	eters) 10.6 4.5 266 107	13.2 5.6 328 134	16.0 6.6 395	18.9 7.8 465	21.8 8.9 538	24.7 10.1 612	27.6 11.2 687	30.3 12.2 762	32.8 13.2 835	35.0 14.1 906	36.9 14.9 974	38.3 15.5 1037	39.2 16.0 1095	39.6 16.3 1147	40.7 16.4 1193
Buffalo Grass High Range Low Range Clover - Ladin High Range	<b>i</b> (Kilo) 0.0 0.0 <b>io</b> (Kil	gram 3.1 1.0 ograi 54 23	s per 3.7 1.5 ms pe 80 31	1000 4.8 2.0 er Hec 115 44	Squa 6.3 2.8 tare) 158 61	8.3 3.6 209 82	eters) 10.6 4.5 266 107	13.2 5.6 328 134	16.0 6.6 395	18.9 7.8 465	21.8 8.9 538	24.7 10.1 612	27.6 11.2 687	30.3 12.2 762	32.8 13.2 835	35.0 14.1 906	36.9 14.9 974	38.3 15.5 1037	39.2 16.0 1095	39.6 16.3 1147 538	40.7 16.4 1193

NOTE: Seed rates shown in *bold italics* may be inconsistent

Cup Setting	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Clover - White					-	23	50	55	40	40	50	55	00	05	10	15	00	05	30	95	100
	<u>`</u>	<u> </u>		1	<u> </u>	040	044	077	447	500	1505	074	740	004	000	070	4000	4404	4404	4040	400
High Range Low Range	0	70 39	103 45	145 56	194 73	249 94	311 119	377 147	447 178	520 211	595 245	671 280	748 315	824 349	898 382	970 413	1039 442	1104 468	1164 489	1218 506	126 518
	-		-		-	-	-		170	211	240	200	1315	349	302	413	442	400	409	1500	1516
Clover - White		ř.		1	1	1	1	1	1		1	1	1	1	1	1	1				
High Range	0.0	7.0	10.3	14.5	19.4	24.9	31.1	37.7	44.7	52.0	59.5	67.1	74.8	82.4	89.8	97.0	103.9		116.4		
Low Range	0.0	3.9	4.4	5.6	7.2	9.4	11.9	14.7	17.8	21.1	24.5	28.0	31.5	34.9	38.2	41.3	44.2	46.7	48.9	50.6	51.8
Fescue - Fine	Blad	e, Tur	f Typ	<b>be</b> (Ki	logra	ms pe	er He	ctare	)												
High Range	0	40	46	59	78	102	131	163	199	236	274	312	350	387	421	453	481	503	521	532	536
Low Range	0	11	16	23	32	43	55	68	83	98	113	128	144	158	172	185	196	206	214	220	223
Fescue - Fine	Blad	e, Tur	f Typ	<b>be</b> (Ki	logra	ms pe	er 100	00 Sc	luare	Mete	rs)										
High Range	0.0	4.0	4.6	5.9	7.8	10.2	13.1	16.3	19.9	23.6	27.4	31.2	35.0	38.7	42.1	45.3	48.0	50.3	52.1	53.2	53.6
Low Range	0.0	1.1	1.6	2.3	3.2	4.3	5.5	6.8	8.3	9.8	11.3	12.8	14.3	15.8	17.2	18.5	19.6	20.6	21.4	22.0	22.3
					-	-							-								
Fescue K-31(	Kiloar	ams r	er He	ectare	<del>.</del> )																
High Range		40	45	56	71	92	116	144	174	207	240	275	309	342	375	405	432	457	477	492	502
Low Range	0	6	10	16	22	30	39	49	60	71	83	95	107	120	133	145	157	169	180	191	201
Fescue K-31			· ·	_			_		1	···				1.20	1.00	1.10	1.2.	1.00	1.20	1.2.	
High Range	0.0	4.0	4.5	5.5	7.1	9.2	11.6	14.4	17.4	20.7	24.0	27.5	30.9	34.2	37.5	40.5	43.2	45.6	47.7	49.2	50.2
Low Range	0.0	4.0 0.6	1.0	1.6	2.2	3.0	3.9	4.9	6.0	7.1	8.3	9.5	10.7	12.0	13.3	14.5	15.7	16.9	18.0	19.1	20.1
Low Manye	10.0	0.0	1.0	1.0	12.2	10.0	10.0	1-1-3	10.0	11.1	10.0	10.0	10.7	12.0	10.0	1.4.0	1.0.7	10.5	110.0	110.1	20.1
Kanturala Di		- //			ar 1 1	at -															
Kentucky Blu		<u> </u>			1	1	í	-			-	-		1		1		1	1	1	
High Range	0	17	23	34	48	67	89	113	140	169	200	233	266	299	333	366	398	430	459	487	513
Low Range	0	10	12	17	23	30	38	47	58	69	81	93	106	119	133	146	160	174	187	200	213
Kentucky Blu	o Gra	cc (k	iloara	ams p	er 10	00 So	quare	Mete	ers)												
Remucky Diu	e Gia	55 (r.			1														1 4 5 0	1 40 -	
High Range	0.0	1.7	2.3	3.4	4.8	6.7	8.8	11.3	14.0	16.9	20.0	23.2	26.5	29.9	33.3	36.6	39.8	43.0	45.9	48.7	
-	-	· ·		1	4.8 2.3	6.7 3.0	8.8 3.8	11.3 4.7	14.0 5.8	16.9 6.9	20.0 8.1	23.2 9.3	26.5 10.6	29.9 11.9	33.3 13.3	36.6 14.6	39.8 16.0	43.0 17.4	45.9 18.7	48.7 20.0	
High Range	0.0	1.7	2.3	3.4	-			-	-		-	-			-		-	-			
High Range	0.0	1.7 1.0	2.3 1.2	3.4 1.7	2.3	3.0		-	-		-	-			-		-	-			
High Range Low Range	0.0	1.7 1.0	2.3 1.2	3.4 1.7	2.3	3.0		-	-		-	-			-		-	-			21.3
High Range Low Range	0.0 0.0 Sand (	1.7 1.0 Kilogi	2.3 1.2	3.4 1.7 per H	2.3	3.0 re)	3.8	4.7	5.8	6.9	8.1	9.3	10.6	11.9	13.3	14.6	16.0	17.4	18.7	20.0	21.3
High Range Low Range Lovegrass - S High Range	0.0 0.0 Sand ( 0 0	1.7 1.0 Kilogi 99 13	2.3 1.2 rams 103 31	3.4 1.7 <b>per</b> H 117 48	2.3 lectai 141 64	3.0 re) 172 80	3.8 211 95	4.7 257 111	5.8 309	6.9 365	8.1 425	9.3 489	10.6 554	11.9 621	13.3 689	14.6 755	16.0 821	17.4 884	18.7 945	20.0	21.3
High Range Low Range Lovegrass - S High Range Low Range	0.0 0.0 Sand ( 0 0	1.7 1.0 Kilogi 99 13	2.3 1.2 rams 103 31	3.4 1.7 <b>per</b> H 117 48	2.3 lectai 141 64	3.0 re) 172 80	3.8 211 95	4.7 257 111	5.8 309	6.9 365	8.1 425	9.3 489	10.6 554	11.9 621	13.3 689	14.6 755	16.0 821	17.4 884	18.7 945	20.0	21.3 1053 392
High Range Low Range Lovegrass - S High Range Low Range Lovegrass - S	0.0 0.0 6 6 6 6 6 6 6 6 6 6 7 7 7 7 7 7 7 7 7	1.7 1.0 Kilogi 99 13 Kilogi	2.3 1.2 rams 103 31 rams	3.4 1.7 per H 117 48 per 1	2.3 lectar 141 64 000 \$	3.0 re) 172 80 Squar	3.8 211 95 e Me	4.7 257 111 ters)	5.8 309 126	6.9 365 142	8.1 425 159	9.3 489 176	10.6 554 194	<ul><li>11.9</li><li>621</li><li>213</li></ul>	13.3 689 233	14.6 755 255	16.0 821 279	884 304	945 331	20.0 1001 360	21.3 1053 392
High Range Low Range Lovegrass - S High Range Low Range Lovegrass - S High Range	0.0 0.0 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1.7 1.0 Kilogi 99 13 Kilogi 9.9	2.3 1.2 103 31 7ams 10.3	3.4 1.7 <b>per H</b> 117 48 <b>per 1</b> 11.7	2.3 lectar 141 64 000 \$ 14.0	3.0 re) 172 80 Squar 17.2	3.8 211 95 <b>•e Me</b> 21.1	4.7 257 111 ters) 25.7	5.8 309 126 30.9	6.9 365 142 36.5	8.1 425 159 42.5	9.3 489 176 48.9	10.6 554 194 55.4	<ul><li>11.9</li><li>621</li><li>213</li><li>62.1</li></ul>	13.3 689 233 68.9	14.6 755 255 75.5	16.0 821 279 82.1	17.4 884 304 88.4	945 331 94.5	20.0 1001 360 100.1	21.3 1053 392 105.
High Range Low Range High Range Low Range Lovegrass - S High Range Low Range	0.0 0.0 5and ( 0 5and ( 0.0 5.0 0.0	1.7 1.0 99 13 Kilogi 9.9 1.3	2.3 1.2 7ams 103 31 7ams 10.3 3.1	3.4 1.7 <b>per H</b> 117 48 <b>per 1</b> 11.7 4.8	2.3 lectar 141 64 000 \$ 14.0 6.4	3.0 172 80 Squar 17.2 7.9	3.8 211 95 <b>•e Me</b> 21.1 9.5	4.7 257 111 ters) 25.7	5.8 309 126 30.9	6.9 365 142 36.5	8.1 425 159 42.5	9.3 489 176 48.9	10.6 554 194 55.4	<ul><li>11.9</li><li>621</li><li>213</li><li>62.1</li></ul>	13.3 689 233 68.9	14.6 755 255 75.5	16.0 821 279 82.1	17.4 884 304 88.4	945 331 94.5	20.0 1001 360 100.1	21.3 1053 392 105.
High Range Low Range High Range Low Range Low Range Lovegrass - S High Range Low Range	0.0 0.0 5and ( 0 5and ( 0.0 0.0 0.0	1.7 1.0 Kilogi 99 13 Kilogi 9.9 1.3	2.3 1.2 103 31 rams 10.3 3.1 ilogra	3.4 1.7 per H 117 48 per 1 11.7 4.8	2.3 lectar 141 64 000 \$ 14.0 6.4	3.0 172 80 Squar 17.2 7.9	3.8 211 95 <b>e Me</b> 21.1 9.5	4.7 257 111 ters) 25.7 11.1	5.8           309           126           30.9           12.6	6.9 365 142 36.5 14.2	<ul> <li>8.1</li> <li>425</li> <li>159</li> <li>42.5</li> <li>15.9</li> </ul>	9.3 489 176 48.9 17.6	10.6 554 194 55.4 19.4	621 213 62.1 21.3	13.3         689         233         68.9         23.3	14.6 755 255 75.5 25.5	821 279 82.1 27.8	884 304 88.4 30.4	945 331 94.5 33.1	20.0 1001 360 100.1 36.0	21.3 1053 392 105. 39.1
High Range Low Range High Range Low Range Low Range Lovegrass - S High Range Low Range Lovegrass - V High Range	0.0 0.0 5and ( 0 5and ( 0.0 0.0 Weepin 0	1.7 1.0 Kilogi 99 13 Kilogi 9.9 1.3 T.3 T.3 T.3	2.3 1.2 103 31 rams 10.3 3.1 10.3 106	3.4 1.7 <b>per H</b> 117 48 <b>per 1</b> 11.7 4.8 <b>ms p</b> 151	2.3 lectar 141 64 000 \$ 14.0 6.4 er He 205	3.0 172 80 Squar 17.2 7.9 ectare 266	3.8 211 95 <b>re Me</b> 21.1 9.5 21.1 9.5	4.7 257 111 ters) 25.7 11.1 408	5.8 309 126 30.9 12.6 485	6.9 365 142 36.5 14.2 564	8.1 425 159 42.5 15.9 645	9.3 489 176 48.9 17.6 726	10.6 554 194 55.4 19.4 806	621 213 62.1 21.3 883	689 233 68.9 23.3 957	14.6 755 255 75.5 25.5 1025	821 279 82.1 27.8	17.4           884           304           88.4           30.4           1141	945 331 94.5 33.1	20.0 1001 360 100.1 36.0	21.3 105: 392 105. 39.1
High Range Low Range High Range Low Range Low Range Lovegrass - S High Range Low Range Lovegrass - V High Range Low Range	0.0 0.0 5and ( 0 5and ( 0.0 0.0 Weepin 0 0	1.7 1.0 99 13 Kilogi 9.9 1.3 1.3 <b>ng</b> (K 72 13	2.3 1.2 103 31 rams 10.3 3.1 ilogra 106 29	3.4 1.7 <b>per H</b> 117 48 <b>per 1</b> 11.7 4.8 <b>ms p</b> 151 50	2.3 Hectar 141 64 000 \$ 14.0 6.4 er He 205 74	3.0 re) 172 80 Squar 17.2 7.9 ectare 266 101	3.8 211 95 21.1 9.5 21.1 9.5 335 130	4.7 257 111 25.7 25.7 11.1 408 161	5.8           309           126           30.9           12.6           485           194	6.9 365 142 36.5 14.2	<ul> <li>8.1</li> <li>425</li> <li>159</li> <li>42.5</li> <li>15.9</li> </ul>	9.3 489 176 48.9 17.6	10.6 554 194 55.4 19.4	621 213 62.1 21.3	13.3         689         233         68.9         23.3	14.6 755 255 75.5 25.5	821 279 82.1 27.8	884 304 88.4 30.4	945 331 94.5 33.1	20.0 1001 360 100.1 36.0	21.3 105: 392 105. 39.1
High Range Low Range High Range Low Range Low Range Lovegrass - S High Range Low Range Lovegrass - V High Range Low Range Low Range	0.0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.7 1.0 99 13 Kilogi 9.9 1.3 ng (K 72 13 ng (K	2.3 1.2 103 31 rams 10.3 3.1 ilogra 106 29 ilogra	3.4 1.7 <b>per H</b> 117 48 <b>per 1</b> 11.7 4.8 <b>ms p</b> 151 50 <b>ams p</b>	2.3 lectar 141 64 000 \$ 14.0 6.4 er He 205 74 ver 10	3.0 172 80 Squar 17.2 7.9 ectare 266 101 00 So	3.8 211 95 <b>e Me</b> 21.1 9.5 335 130 <b>Quare</b>	4.7 257 111 ters) 25.7 11.1 408 161 Mete	5.8 309 126 30.9 12.6 12.6 485 194 ers)	6.9 365 142 36.5 14.2 564 228	8.1 425 159 42.5 15.9 645 262	9.3 489 176 48.9 17.6 726 297	10.6 554 194 55.4 19.4 806 332	621 213 62.1 21.3 883 365	689 233 68.9 23.3 23.3 957 398	14.6         755         255         75.5         25.5         1025         429	821 279 82.1 27.8 1087 458	884 304 88.4 30.4 1141 485	945 331 94.5 33.1 1186 508	20.0 1001 360 100.1 36.0 1221 528	21.3 1053 392 105 39.1 1244 545
High Range Low Range High Range Low Range	0.0 0.0 0 0 0 0 0 0 0 0.0 0 0 0 0 0 0 0	1.7 1.0 99 13 Kilogi 9.9 1.3 1.3 <b>19</b> (K 72 13 <b>19</b> (K 7.2	2.3 1.2 103 31 rams 10.3 3.1 ilogra 106 29 ilogra 10.6	3.4 1.7 per H 117 48 per 1 11.7 4.8 151 50 ams p 15.1	2.3 lectar 141 64 000 \$ 14.0 6.4 er He 205 74 er 10 20.5	3.0 172 80 Squar 17.2 7.9 ectare 266 101 00 So 26.6	3.8 211 95 e Me 21.1 9.5 335 130 2002 33.4	4.7 257 111 ters) 25.7 11.1 408 161 Mete 40.8	5.8 309 126 30.9 12.6 12.6 485 194 <b>2FS</b> 48.5	6.9 365 142 36.5 14.2 564 228 56.4	8.1 425 159 42.5 15.9 645 262 64.5	9.3 489 176 48.9 17.6 726 297 72.6	10.6 554 194 55.4 19.4 806 332 80.6	621 213 62.1 21.3 8883 365 888.3	689 233 68.9 23.3 23.3 957 398 95.7	14.6         755         255         75.5         25.5         1025         102.5	16.0         821         279         82.1         27.8         1087         458         108.7	17.4         884         304         88.4         30.4         1141         485         1114.1	945 331 94.5 33.1 1186 508 118.6	20.0 1001 360 100.1 36.0 1221 528 122.1	21.3 1053392 105. 39.1 1245 545 124.
High Range Low Range High Range Low Range Low Range Lovegrass - S High Range Low Range Low Range Low Range Low Range Low Range	0.0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.7 1.0 99 13 Kilogi 9.9 1.3 ng (K 72 13 ng (K	2.3 1.2 103 31 rams 10.3 3.1 ilogra 106 29 ilogra	3.4 1.7 <b>per H</b> 117 48 <b>per 1</b> 11.7 4.8 <b>ms p</b> 151 50 <b>ams p</b>	2.3 lectar 141 64 000 \$ 14.0 6.4 er He 205 74 ver 10	3.0 172 80 Squar 17.2 7.9 ectare 266 101 00 So	3.8 211 95 <b>e Me</b> 21.1 9.5 335 130 <b>Quare</b>	4.7 257 111 ters) 25.7 11.1 408 161 Mete	5.8 309 126 30.9 12.6 12.6 485 194 ers)	6.9 365 142 36.5 14.2 564 228	8.1 425 159 42.5 15.9 645 262	9.3 489 176 48.9 17.6 726 297	10.6 554 194 55.4 19.4 806 332	621 213 62.1 21.3 883 365	689 233 68.9 23.3 23.3 957 398	14.6         755         255         75.5         25.5         1025         429	821 279 82.1 27.8 1087 458	884 304 88.4 30.4 1141 485	945 331 94.5 33.1 1186 508	20.0 1001 360 100.1 36.0 1221 528	21.3 1053 392 105. 39.1 1244 545
High Range Low Range High Range Low Range Low Range Lovegrass - S High Range Low Range Low Range Low Range Low Range Lowegrass - V High Range Lowegrass - V High Range Low Range	0.0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.7 1.0 <b>Kilogi</b> 99 13 <b>Kilogi</b> 9.9 1.3 <b>ng (K</b> 72 13 <b>ng (K</b> 7.2 1.3	2.3 1.2 103 31 rams 10.3 3.1 106 29 106 29 10.6 2.9	3.4 1.7 per H 117 48 per 1 11.7 4.8 151 50 15.1 5.0	2.3 141 64 000 \$ 14.0 6.4 er He 205 74 eer 10 20.5 7.4	3.0 172 80 Squar 17.2 7.9 ectare 266 101 00 So 26.6	3.8 211 95 e Me 21.1 9.5 335 130 2002 33.4	4.7 257 111 ters) 25.7 11.1 408 161 Mete 40.8	5.8 309 126 30.9 12.6 12.6 485 194 <b>2FS</b> 48.5	6.9 365 142 36.5 14.2 564 228 56.4	8.1 425 159 42.5 15.9 645 262 64.5	9.3 489 176 48.9 17.6 726 297 72.6	10.6 554 194 55.4 19.4 806 332 80.6	621 213 62.1 21.3 8883 365 888.3	689 233 68.9 23.3 23.3 957 398 95.7	14.6         755         255         75.5         25.5         1025         102.5	16.0         821         279         82.1         27.8         1087         458         108.7	17.4         884         304         88.4         30.4         1141         485         1114.1	945 331 94.5 33.1 1186 508 118.6	20.0 1001 360 100.1 36.0 1221 528 122.1	21.3 1053 392 105. 39.1 1244 545
High Range Low Range High Range Low Range Low Range Lovegrass - S High Range Low Range Low Range Low Range Low Range Low Range Low Range Corchard Gras	0.0 0.0 5and ( 0 0 5and ( 0.0 0.0 Veepin 0 0 0 Veepin 0.0 0.0 0.0 0.0	1.7 1.0 Kilogy 99 13 Kilogy 9.9 1.3 T2 13 mg (K 7.2 1.3 T2 1.3	2.3 1.2 ams 103 31 10.3 3.1 10.3 3.1 10.6 2.9 10.6 2.9 10.6 2.9	3.4 1.7 per H 117 48 per 1 11.7 4.8 15.1 5.0 Hec	2.3 141 64 000 \$ 14.0 6.4 14.0 6.4 205 74 er He 205 74 20.5 7.4 tare)	3.0 172 80 Squar 17.2 7.9 ectare 266 101 00 Sc 26.6 10.1	3.8 211 95 e Me 21.1 9.5 335 130 2000 33.4 13.0	4.7 257 111 ters) 25.7 11.1 408 161 40.8 16.1	5.8 309 126 30.9 12.6 485 194 <b>4</b> 85 194 <b>4</b> 85 194 <b>4</b> 85 194	6.9 365 142 36.5 14.2 564 228 56.4 22.8	8.1 425 159 42.5 15.9 645 262 64.5 26.2	9.3 489 176 48.9 17.6 726 297 72.6 29.7	10.6 554 194 55.4 19.4 80.6 332 80.6 33.2	11.9 621 213 62.1 21.3 883 365 888.3 365	13.3 689 233 68.9 23.3 957 398 95.7 39.8	14.6 755 255 75.5 25.5 1025 429 102.5 42.9	16.0 821 279 82.1 27.8 1087 458 108.7 45.8	17.4 884 304 88.4 30.4 1141 485 114.1 48.5	945 331 94.5 33.1 1186 508 118.6 50.8	20.0 1001 360 100.1 36.0 1221 528 122.1 52.8	105. 39.1 1245 545 124. 54.5
High Range Low Range High Range Low Range Low Range Lovegrass - S High Range Low Range Low Range Low Range Lovegrass - V High Range Low Range Corchard Gras High Range	0.0 0.0 5and ( 0 5and ( 0.0 0.0 Weepin 0 0 0 Weepin 0.0 0.0 55 (Kilo	1.7 1.0 Kilogy 99 13 Kilogy 9.9 1.3 Tag (K 72 13 Tag (K 7.2 1.3 Tag (K 7.2 1.3	2.3 1.2 ams 103 31 10.3 3.1 10.3 3.1 10.6 2.9 10.6 2.9 10.6 2.9 10.6 2.9 10.6 2.9	3.4 1.7 per H 117 48 per 1 11.7 4.8 15.1 5.0 T Hecc 22	2.3 141 64 000 \$ 14.0 6.4 205 74 er He 205 74 20.5 7.4 tare) 28	3.0 re) 172 80 Squar 17.2 7.9 ectare 266 101 00 Sc 26.6 10.1 38	3.8 211 95 e Me 21.1 9.5 335 130 <b>Quare</b> 33.4 13.0	4.7 257 111 <b>ters</b> ) 25.7 11.1 408 161 Mete 40.8 16.1 66	5.8 309 126 30.9 12.6 485 194 48.5 194 48.5 194 48.5 194 88.4	6.9 365 142 36.5 14.2 564 228 56.4 22.8 103	8.1 425 159 42.5 15.9 645 262 64.5 26.2 124	9.3 489 176 48.9 17.6 726 297 72.6 29.7 146	10.6 554 194 55.4 19.4 80.6 332 80.6 33.2	11.9           621           213           62.1           21.3           883           365           88.3           36.5           191	13.3 689 233 68.9 23.3 957 398 95.7 39.8 214	14.6 755 255 75.5 25.5 1025 429 102.5 42.9 236	16.0 821 279 82.1 27.8 1087 458 108.7 45.8	17.4 884 304 88.4 30.4 1141 485 114.1 48.5 276	945 331 94.5 33.1 1186 508 118.6 50.8	20.0 1001 360 100.1 36.0 1221 528 122.1 52.8 308	21.3 105: 392 105. 39.1 124: 545 124: 54.5
High Range Low Range High Range Low Range Low Range Low Range Low Range Low Range Low Range Low Range Low Range Low Range Corchard Grass High Range Low Range	0.0 0.0 5and ( 0 0 5and ( 0.0 0.0 Weepin 0 0 0 Weepin 0.0 0 0 S (Kilo 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.7 1.0 Kilogy 99 1.3 Kilogy 9.9 1.3 <b>ng</b> (K 72 1.3 <b>ng</b> (K 7.2 1.3 <b>ng</b> (K 7.2 1.3 5	2.3 1.2 ams 103 31 10.3 3.1 10.3 3.1 10.6 2.9 10.6 2.9 s per 20 7	3.4 1.7 per H 117 48 per 1 11.7 4.8 15.1 5.0 15.1 5.0 r Hecc 22 10	2.3 lectar 141 64 000 \$ 14.0 6.4 205 74 er He 205 74 20.5 7.4 tare) 28 14	3.0 re) 172 80 Squar 17.2 7.9 ectare 266 101 00 Sc 26.6 10.1 38 19	3.8 211 95 e Me 21.1 9.5 335 130 <b>Quare</b> 33.4 13.0	4.7 257 111 <b>ters</b> ) 25.7 11.1 408 161 <b>Mete</b> 40.8 16.1 <b>6</b> 6 31	5.8 309 126 30.9 12.6 485 194 <b>4</b> 85 194 <b>4</b> 85 194 <b>4</b> 85 194	6.9 365 142 36.5 14.2 564 228 56.4 22.8	8.1 425 159 42.5 15.9 645 262 64.5 26.2	9.3 489 176 48.9 17.6 726 297 72.6 29.7	10.6 554 194 55.4 19.4 80.6 332 80.6 33.2	11.9 621 213 62.1 21.3 883 365 888.3 365	13.3 689 233 68.9 23.3 957 398 95.7 39.8	14.6 755 255 75.5 25.5 1025 429 102.5 42.9	16.0 821 279 82.1 27.8 1087 458 108.7 45.8	17.4 884 304 88.4 30.4 1141 485 114.1 48.5	945 331 94.5 33.1 1186 508 118.6 50.8	20.0 1001 360 100.1 36.0 1221 528 122.1 52.8	21.3 105: 392 105: 39.1 124: 545 124: 54.5
High Range Low Range High Range Low Range Low Range Low Range Low Range Low Range Low Range Low Range Low Range Corchard Grass High Range Low Range Corchard Grass	0.0 0.0 5and ( 0 0 5and ( 0.0 0.0 Veepin 0.0 0 Veepin 0.0 0 5s (Kild 0 0 0 5s (Kild	1.7 1.0 Kilogy 99 13 Kilogy 9.9 1.3 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T3 T2 T3 T3 T3 T3 T3 T3 T3 T3 T3 T3 T3 T3 T3	2.3 1.2 ams 103 31 10.3 31 10.3 3.1 10.6 2.9 10.6 2.9 10.6 2.9 10.6 2.9 10.7 1	3.4 1.7 per H 117 48 per 1 11.7 4.8 ms p 15.1 5.0 r Hec 22 10 (1000	2.3 141 64 000 \$ 14.0 6.4 14.0 6.4 000 \$ 14.0 0.4 000 \$ 14.0 0.4 14.0 0.5 7.4 14.0 12.0 14	3.0 re) 172 80 Squar 17.2 7.9 ectare 266 101 00 Sc 26.6 10.1 38 19 are N	3.8 211 95 e Me 21.1 9.5 335 130 9 2000 2000 2000 2000 2000 2000 2000	4.7 257 111 <b>ters</b> ) 25.7 11.1 408 161 <b>Mete</b> 40.8 16.1 <b>6</b> 6 31	5.8 309 126 30.9 12.6 485 194 48.5 194 48.5 194 48.5 194 88.4	6.9 365 142 36.5 14.2 564 228 56.4 22.8 103	8.1 425 159 42.5 15.9 645 262 64.5 262 64.5 26.2	9.3 489 176 48.9 17.6 297 72.6 29.7 72.6 29.7 146 60	10.6 554 194 55.4 19.4 80.6 332 80.6 33.2 169 69	11.9           621           213           62.1           21.3           883           365           88.3           36.5           191	13.3 689 233 68.9 23.3 957 398 95.7 39.8 214	14.6 755 255 75.5 25.5 1025 429 102.5 42.9 236	16.0         821         279         82.1         27.8         1087         458         108.7         45.8         2256         104	17.4           884           304           88.4           30.4           1141           485           114.1           48.5           2776           112	945           331           94.5           33.1           1186           508           1118.6           50.8           293           121	20.0 1001 360 100.1 36.0 1221 528 122.1 52.8 308	21.3 105: 392 105. 39.1 124: 545 124: 54.5 320
High Range Low Range High Range Low Range Low Range Low Range Low Range Low Range Low Range Low Range Low Range Corchard Gras High Range Low Range Migh Range Low Range Dorchard Gras High Range	0.0           0.0           0.0           0           0           0           0.0           Sand (           0.0           0.0           0.0           0.0           0.0           0           0           0           0           0           0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0	1.7 1.0 Kilogy 99 13 Kilogy 9.9 1.3 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T2 T3 T2 T3 T3 T2 T3 T3 T3 T3 T3 T3 T3 T3 T3 T3 T3 T3 T3	2.3 1.2 ams 103 31 10.3 3.1 10.3 3.1 10.6 2.9 10.6 2.9 10.6 2.9 10.6 2.9 10.6 2.9 10.5 5 per 20 7 5 per 2.0	3.4 1.7 per H 117 48 per 1 11.7 4.8 15.1 5.0 15.1 5.0 FHec 22 10 1000 2.2	2.3 lectar 141 64 000 \$ 14.0 6.4 205 74 205 205 205 205 205 205 205 205	3.0 re) 172 80 Squar 17.2 7.9 ectare 266 101 00 Sc 26.6 10.1 38 19 are N 3.8	3.8 211 95 e Me 21.1 9.5 335 130 quare 33.4 13.0 51 24 Meters 5.0	4.7 257 111 <b>ters</b> ) 25.7 11.1 408 161 <b>Mete</b> 40.8 16.1 <b>6</b> 6 31 <b>\$</b> ) 6.6	5.8         309         126         30.9         12.6         485         194 <b>¥R55</b> 194 <b>¥8.5</b> 19.4         84         37         8.4	6.9 365 142 36.5 142 564 228 56.4 22.8 103 45 10.3	8.1 425 159 42.5 15.9 645 262 64.5 262 64.5 262 124 52	9.3 489 176 48.9 17.6 297 72.6 29.7 72.6 29.7 146 60	10.6 554 194 55.4 19.4 80.6 332 80.6 33.2 169 69	11.9 621 213 62.1 21.3 62.1 21.3 883 365 888.3 365 888.3 365	13.3 689 233 68.9 23.3 957 398 95.7 39.8 95.7 39.8 214 86	14.6 755 255 75.5 25.5 1025 429 102.5 429 102.5 236 95	16.0 821 279 82.1 27.8 1087 458 108.7 45.8 256 104 25.6	17.4 884 304 88.4 30.4 1141 485 114.1 48.5 276 112 27.6	945           331           94.5           33.1           1186           508           118.6           50.8           293           121           29.3	20.0 1001 360 100.1 36.0 1221 528 122.1 52.8 308 129 30.8	21.3 105: 392 105. 39.1 124: 545 124. 54.5 320 137 32.0
High Range Low Range High Range Low Range Low Range Low Range Low Range Low Range Low Range Low Range Low Range Corchard Grass High Range Low Range Orchard Grass	0.0 0.0 5and ( 0 0 5and ( 0.0 0.0 Veepin 0.0 0 Veepin 0.0 0 5s (Kild 0 0 0 5s (Kild	1.7 1.0 Kilogy 99 13 Kilogy 9.9 1.3 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T3 T2 T3 T3 T3 T3 T3 T3 T3 T3 T3 T3 T3 T3 T3	2.3 1.2 ams 103 31 10.3 31 10.3 3.1 10.6 2.9 10.6 2.9 10.6 2.9 10.6 2.9 10.7 1	3.4 1.7 per H 117 48 per 1 11.7 4.8 ms p 15.1 5.0 r Hec 22 10 (1000	2.3 141 64 000 \$ 14.0 6.4 14.0 6.4 000 \$ 14.0 0.4 000 \$ 14.0 0.4 14.0 0.5 7.4 14.0 12.0 14	3.0 re) 172 80 Squar 17.2 7.9 ectare 266 101 00 Sc 26.6 10.1 38 19 are N	3.8 211 95 e Me 21.1 9.5 335 130 9 2000 2000 2000 2000 2000 2000 2000	4.7 257 111 25.7 11.1 25.7 11.1 408 161 Mete 40.8 16.1 666 31 \$)	5.8 309 126 30.9 12.6 12.6 194 485 194 48.5 19.4 884 37	6.9 365 142 36.5 14.2 564 228 56.4 22.8 103 45	8.1 425 159 42.5 15.9 645 262 64.5 262 64.5 26.2	9.3 489 176 48.9 17.6 297 72.6 29.7 72.6 29.7 146 60	10.6 554 194 55.4 19.4 80.6 332 80.6 33.2 169 69	11.9           621           213           62.1           21.3           62.1           21.3           8883           365           888.3           36.5           191           77	13.3 689 233 68.9 23.3 68.9 23.3 957 398 95.7 39.8 95.7 39.8	14.6 755 255 75.5 255 1025 429 102.5 429 102.5 236 95	16.0         821         279         82.1         27.8         1087         458         108.7         45.8         2256         104	17.4           884           304           88.4           30.4           1141           485           114.1           48.5           2776           112	945           331           94.5           33.1           1186           508           1118.6           50.8           293           121	20.0 1001 360 100.1 36.0 1221 528 122.1 52.8 308 129	21.3 1053 392 105. 39.1 1245 545 124. 54.5
High Range Low Range High Range Low Range Low Range Low Range Low Range Low Range Low Range Low Range Low Range Corchard Gras High Range Low Range Migh Range Low Range Dorchard Gras High Range	0.0           0.0           0.0           0           0           0           0.0           Sand (           0.0           0.0           0.0           0.0           0.0           0           0           0           0           0           0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0	1.7 1.0 Kilogy 99 13 Kilogy 9.9 1.3 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T2 T3 T2 T3 T3 T2 T3 T3 T3 T3 T3 T3 T3 T3 T3 T3 T3 T3 T3	2.3 1.2 ams 103 31 10.3 3.1 10.3 3.1 10.6 2.9 10.6 2.9 10.6 2.9 10.6 2.9 10.6 2.9 10.5 5 per 20 7 5 per 2.0	3.4 1.7 per H 117 48 per 1 11.7 4.8 15.1 5.0 15.1 5.0 FHec 22 10 1000 2.2	2.3 lectar 141 64 000 \$ 14.0 6.4 205 74 205 205 205 205 205 205 205 205	3.0 re) 172 80 Squar 17.2 7.9 ectare 266 101 00 Sc 26.6 10.1 38 19 are N 3.8	3.8 211 95 e Me 21.1 9.5 335 130 quare 33.4 13.0 51 24 Meters 5.0	4.7 257 111 ters) 25.7 11.1 408 161 Mete 40.8 16.1 666 31 \$) 6.6	5.8         309         126         30.9         12.6         485         194 <b>¥R55</b> 194 <b>¥8.5</b> 19.4         84         37         8.4	6.9 365 142 36.5 142 564 228 56.4 22.8 103 45 10.3	8.1 425 159 42.5 15.9 645 262 64.5 262 64.5 262 124 52	9.3 489 176 48.9 17.6 726 297 72.6 29.7 72.6 29.7 146 60	10.6 554 194 55.4 19.4 80.6 332 80.6 33.2 169 69	11.9 621 213 62.1 21.3 62.1 21.3 883 365 888.3 365 888.3 365	13.3 689 233 68.9 23.3 957 398 95.7 39.8 95.7 39.8 214 86	14.6 755 255 75.5 25.5 1025 429 102.5 429 102.5 236 95	16.0 821 279 82.1 27.8 1087 458 108.7 45.8 256 104 25.6	17.4 884 304 88.4 30.4 1141 485 114.1 48.5 276 112 27.6	945           331           94.5           33.1           1186           508           118.6           50.8           293           121           29.3	20.0 1001 360 100.1 36.0 1221 528 122.1 52.8 308 129 30.8	21.3 105: 392 105. 39.1 124: 545 124. 54.5 320 137 32.0
High Range Low Range High Range Low Range Low Range Lowegrass - S High Range Low Range Low Range Low Range Low Range Low Range Corchard Gras High Range Low Range Orchard Gras High Range Low Range	0.0           0.0           0.0           0           0           0           0.0           Sand (           0.0           Sand (           0.0           0.0           0.0           0           0           0           0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0	1.7 1.0 Kilogy 99 13 Kilogy 9.9 1.3 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T3 T2 13 T3 T2 13 T3 T2 13 T3 T3 T3 T3 T3 T3 T3 T3 T3 T3 T3 T3 T3	2.3 1.2 ams 10.3 31 10.3 3.1 10.3 3.1 10.6 2.9 10.6 2.9 10.6 2.9 10.6 2.9 10.6 2.9 10.7	3.4 1.7 per H 117 48 per 1 11.7 4.8 151 50 15.1 5.0 FHec 22 10 1000 2.2 1.0	2.3 141 64 000 \$ 14.0 6.4 14.0 6.4 000 \$ 14.0 0.5 74 020.5 7.4 14 14 14 14 14 14 14 14 14 1	3.0 re) 172 80 Squar 17.2 7.9 ectare 266 101 00 Sc 26.6 10.1 38 19 are N 3.8 1.9	3.8 211 95 e Me 21.1 9.5 335 130 quare 33.4 13.0 51 24 Meters 5.0	4.7 257 111 ters) 25.7 11.1 408 161 Mete 40.8 16.1 666 31 \$) 6.6	5.8         309         126         30.9         12.6         485         194 <b>¥R55</b> 194 <b>¥8.5</b> 19.4         84         37         8.4	6.9 365 142 36.5 142 564 228 56.4 22.8 103 45 10.3	8.1 425 159 42.5 15.9 645 262 64.5 262 64.5 262 124 52	9.3 489 176 48.9 17.6 726 297 72.6 29.7 72.6 29.7 146 60	10.6 554 194 55.4 19.4 80.6 332 80.6 33.2 169 69	11.9 621 213 62.1 21.3 62.1 21.3 883 365 888.3 365 888.3 365	13.3 689 233 68.9 23.3 957 398 95.7 39.8 95.7 39.8 214 86	14.6 755 255 75.5 25.5 1025 429 102.5 429 102.5 236 95	16.0 821 279 82.1 27.8 1087 458 108.7 45.8 256 104 25.6	17.4 884 304 88.4 30.4 1141 485 114.1 48.5 276 112 27.6	945           331           94.5           33.1           1186           508           118.6           50.8           293           121           29.3	20.0 1001 360 100.1 36.0 1221 528 122.1 52.8 308 129 30.8	21.3 105: 392 105. 39.1 124: 545 124. 54.5 320 137 32.0
High Range Low Range High Range Low Range Low Range Low Range Low Range Low Range Low Range Low Range Low Range Low Range Corchard Gras High Range Low Range Orchard Gras High Range Low Range Corchard Gras High Range Low Range	0.0           0.0           0.0           0           0           0           0.0           Sand (           0.0           Sand (           0.0           0.0           0.0           0           0           0           0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0	1.7 1.0 Kilogy 99 13 Kilogy 9.9 1.3 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T2 13 T3 T2 13 T3 T2 13 T3 T2 13 T3 T3 T3 T3 T3 T3 T3 T3 T3 T3 T3 T3 T3	2.3 1.2 ams 10.3 31 10.3 3.1 10.3 3.1 10.6 2.9 10.6 2.9 10.6 2.9 10.6 2.9 10.6 2.9 10.7	3.4 1.7 per H 117 48 per 1 11.7 4.8 151 50 15.1 5.0 FHec 22 10 1000 2.2 1.0	2.3 141 64 000 \$ 14.0 6.4 14.0 6.4 000 \$ 14.0 0.5 74 020.5 7.4 14 14 14 14 14 14 14 14 14 1	3.0 re) 172 80 Squar 17.2 7.9 ectare 266 101 00 Sc 26.6 10.1 38 19 are N 3.8 1.9	3.8 211 95 e Me 21.1 9.5 335 130 quare 33.4 13.0 51 24 Meters 5.0	4.7 257 111 ters) 25.7 11.1 408 161 Mete 40.8 16.1 666 31 \$) 6.6	5.8 309 126 30.9 12.6 194 485 194 48.5 19.4 884 37 8.4 3.7	6.9 365 142 36.5 142 564 228 56.4 22.8 103 45 10.3	8.1 425 159 42.5 15.9 645 262 64.5 262 64.5 262 124 52	9.3 489 176 48.9 17.6 726 297 72.6 29.7 72.6 29.7 146 60	10.6 554 194 55.4 19.4 806 332 80.6 33.2 169 69 16.9	11.9 621 213 62.1 21.3 62.1 21.3 883 365 888.3 365 888.3 365 191 77	13.3 689 233 68.9 23.3 957 398 95.7 39.8 95.7 39.8 214 86 21.4 8.6	14.6 755 255 75.5 25.5 1025 429 102.5 429 102.5 236 95	16.0 821 279 82.1 27.8 1087 458 108.7 45.8 256 104 25.6	17.4           884           304           88.4           30.4           1141           485           114.1           48.5           2776           112           27.6           11.2	945           331           94.5           33.1           1186           508           118.6           50.8           293           121           29.3	20.0 1001 360 100.1 36.0 1221 528 122.1 52.8 308 129 30.8	21.3 105: 392 105. 39.1 124: 545 124. 54.5 320 137 32.0
High Range Low Range High Range Low Range Low Range Low Range Low Range Low Range Low Range Low Range Low Range Low Range Corchard Gras High Range Low Range Orchard Gras High Range Low Range Corchard Gras High Range Low Range	0.0           0.0           0.0           0           0           0           0.0           Sand (           0.0           Sand (           0.0           Sand (           0.0           Sand (           0.0           Veepin           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0	1.7 1.0 Kilogy 99 13 Kilogy 9.9 1.3 ng (K 72 1.3 ng (K 7.2 1.3 ng (K 7.5 1.3 ng (K 7.5 1.3 ng (K 7.5 1.3 ng (K 7.5 1.3 ng (K 7.5 1.3 ng (K 7.5 1.3 ng (K 7.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1	2.3 1.2 ams 103 31 ams 10.3 3.1 10.6 2.9 10.6 2.9 10.6 2.9 10.6 2.9 10.6 2.9 10.6 2.9 10.7 10	3.4 1.7 per H 117 48 per 1 11.7 4.8 ms p 15.1 5.0 15.1 5.0 15.1 5.0 15.1 5.0 15.1 5.0 1000 2.2 1.0 1000 80	2.3 141 64 000 \$ 14.0 6.4 14.0 6.4 14.0 6.4 14.0 74 205 74 205 74 205 7.4 14 205 74 228 14 14 205 74 28 14 14 28 14 14 28 14 14 28 14 14 28 14 14 28 14 14 20 5 74 14 14 20 5 74 14 14 20 5 74 14 14 10 14 14 10 14 14 10 14 14 10 14 14 14 10 14 14 10 14 14 14 10 14 14 10 14 14 10 14 14 10 14 14 10 14 14 10 14 14 10 14 14 10 14 14 10 14 14 14 14 14 14 14 14 14 14	3.0 re) 172 80 Squar 17.2 7.9 ectare 266 101 00 Sc 26.6 10.1 38 19 are N 3.8 1.9 tare) 124	3.8 211 95 e Me 21.1 9.5 335 130 2000 21.1 335 130 33.4 13.0 51 24 5.0 2.4	4.7 257 111 25.7 11.1 25.7 11.1 408 161 Mete 40.8 16.1 666 3.1 6.6 3.1 181	5.8 309 126 30.9 12.6 194 485 194 48.5 194 48.5 19.4 884 37 8.4 3.7	6.9 365 142 36.5 14.2 36.5 14.2 228 56.4 22.8 10.3 45 10.3 4.5 248	8.1           425           159           42.5           15.9           645           262           64.5           26.2           124           52           12.4           5.2           284	9.3 489 176 48.9 17.6 297 72.6 29.7 72.6 29.7 146 60 14.6 6.0	10.6 554 194 55.4 19.4 806 332 80.6 33.2 169 69 16.9 69 3356	11.9           621           213           62.1           21.3           62.1           21.3           883           365           88.3           36.5           191           77           19.1           7.7           392	13.3 689 233 68.9 23.3 957 398 95.7 39.8 95.7 39.8 214 86 21.4 8.6	14.6 755 255 75.5 255 1025 429 1025 429 1025 42.9 236 95 23.6 9.5	16.0         821         279         82.1         27.8         1087         458         108.7         45.8         2256         104         25.6         10.4         492	17.4           884           304           88.4           30.4           1141           485           114.1           48.5           2776           112           27.6           11.2           521	18.7           945           331           94.5           33.1           118.6           508           118.6           50.8           293           121           29.3           12.1           547	20.0 1001 360 100.1 36.0 1221 528 122.1 52.8 308 129 30.8 12.9 570	21.3 1053 392 105. 39.1 124. 54.5 124. 54.5 320 137 32.0 13.7 588
High Range Low Range Corchard Gras High Range Low Range Orchard Gras High Range Low Range Corchard Gras High Range Low Range Corchard Gras High Range Low Range	0.0           0.0           0.0           0           0           0           0.0           Sand (           0.0           Sand (           0.0           0.0           0.0           Veepin           0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0	1.7 1.0 Kilogy 99 13 Kilogy 9.9 1.3 ng (K 72 1.3 ng (K 7.2 1.3 ng (K) 7.4 1.8 0.5 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8	2.3 1.2 ams 103 31 10.3 3.1 10.3 3.1 106 2.9 10.6 2.9 10.6 2.9 10.6 2.9 10.6 2.9 10.7 5 per 2.0 0.7 64 26	3.4 1.7 per H 117 48 per 1 11.7 4.8 ms p 15.1 5.0 15.1 5.0 15.1 5.0 15.1 5.0 15.1 5.0 1000 2.2 1.0 1000 2.3 1.0 1000 2.3 1.0 1000 2.3 1.0 1000 2.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	2.3 141 64 000 \$ 14.0 6.4 14.0 6.4 14.0 6.4 14.0 74 205 74 205 74 205 74 205 74 205 74 205 74 205 74 205 74 205 74 205 74 205 74 14 205 14 14 205 74 14 205 74 14 205 74 14 205 74 14 205 74 14 205 74 14 205 74 14 205 74 14 205 74 14 205 74 14 205 14 14 100 39	3.0 re) 172 80 Squar 17.2 7.9 ectare 266 101 00 Sc 26.6 10.1 38 19 are N 3.8 1.9 124 49	3.8 211 95 e Me 21.1 9.5 335 130 2000 2000 2000 2000 2000 2000 2000	4.7 257 111 25.7 11.1 25.7 11.1 408 161 Mete 40.8 16.1 666 31 5) 6.6 3.1 181 73	5.8 309 126 30.9 12.6 485 194 <b>485</b> 194 <b>485</b> 194 <b>84</b> 37 <b>8.4</b> 3.7 <b>8.4</b> 3.7	6.9 365 142 36.5 14.2 36.5 14.2 228 56.4 22.8 103 45 10.3 4.5	8.1           425           159           42.5           15.9           645           262           64.5           26.2           124           52           12.4           5.2	9.3 489 176 48.9 17.6 726 297 72.6 29.7 72.6 60 14.6 60	10.6 554 194 55.4 19.4 806 332 80.6 33.2 169 69 16.9	11.9           621           213           62.1           21.3           62.1           21.3           883           365           88.3           36.5           191           77           19.1           7.7	13.3 689 233 68.9 23.3 957 398 95.7 39.8 95.7 39.8 214 86 21.4 8.6	14.6 755 255 75.5 255 255 255 25.5 1025 429 102.5 42.9 236 95 23.6 9.5	16.0         821         279         82.1         27.8         1087         458         108.7         45.8         2256         104         25.6         10.4	17.4           884           304           88.4           30.4           1141           485           114.1           48.5           2776           112           27.6           11.2	945           331           94.5           33.1           1186           508           118.6           50.8           293           121           29.3           12.1	20.0 1001 360 100.1 36.0 1221 528 122.1 52.8 308 129 30.8 12.9	21.3 105: 392 105. 39.1 124: 545 124. 54.5 320 137 32.0 13.7
High Range Low Range High Range Low Range Low Range Low Range Low Range Low Range Low Range Low Range Low Range Low Range Corchard Gras High Range Low Range Orchard Gras High Range Low Range Corchard Gras High Range Low Range Rye Grass - A	0.0           0.0           0.0           0           0           0           0           0.0           Sand (           0.0           Sand (           0.0           0.0           0           0           0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0	1.7 1.0 Kilogi 99 13 Kilogi 9.9 1.3 ng (K 72 1.3 ng (K 7.2 1.3 ng (K 7.2 1.3 ng (K 7.2 1.3 ng (K 1.3 ng (K 1.4 ng (K 1.5 ng (K 1.5 ng (K 1.5 ng (K 1.5 ng (K 1.5 ng (K 1.5 ng (K 1.5 ng (K 1.5 ng (K 1.5 ng (K) 1.5 ng (K) 1	2.3 1.2 ams 103 31 ams 10.3 3.1 106 29 10.6 2.9 10.6 2.9 10.6 2.9 10.6 2.9 10.6 2.9 10.6 2.9 10.6 2.9 10.5	3.4 1.7 per H 117 48 per 1 11.7 4.8 151 50 15.1 5.0 15.1 5.0 15.1 5.0 15.1 5.0 15.1 5.0 15.1 5.0 15.1 15.1 5.0 15.1 15	2.3 141 64 000 \$ 14.0 6.4 14.0	3.0 re) 172 80 Squar 17.2 7.9 ectare 266 101 00 Sc 26.6 10.1 38 1.9 xare N 3.8 1.9 124 49 D Squar	3.8 211 95 e Me 21.1 9.5 335 130 <b>Quare</b> 33.4 13.0 <b>S</b> 51 24 5.0 2.4 <b>S</b> 5.0 2.4	4.7 257 111 ters) 25.7 11.1 408 161 Metec 40.8 16.1 666 3.1 6.6 3.1 181 73 Meters	5.8 309 126 30.9 12.6 485 194 48.5 194 84 37 8.4 3.7 214 87 \$	6.9 365 142 36.5 142 228 564 22.8 56.4 22.8 103 45 10.3 4.5 248 103	8.1           425           159           42.5           15.9           645           262           64.5           26.2           124           52           12.4           5.2           284           119	9.3 489 176 48.9 17.6 297 72.6 297 72.6 29.7 146 60 14.6 60 14.6 6.0	10.6 554 194 55.4 19.4 806 332 80.6 33.2 80.6 33.2 169 69 16.9 16.9 152	11.9           621           213           62.1           21.3           62.1           21.3           883           365           88.3           36.5           191           77           19.1           7.7           392           168	13.3 689 233 68.9 233 957 398 957 398 95.7 39.8 214 86 21.4 86 21.4 8.6	14.6 755 255 75.5 255 255 255 1025 429 1025 429 1025 42.9 236 95 23.6 9.5	16.0         821         279         82.1         27.8         1087         458         108.7         458         256         104         25.6         10.4         492         216	17.4           884           304           88.4           30.4           1141           485           114.1           48.5           2776           112           277.6           11.2           521           230	18.7           945           331           94.5           33.1           118.6           508           118.6           50.8           293           121           29.3           12.1           547           243	20.0 1001 360 100.1 36.0 1221 528 122.1 52.8 308 129 30.8 129 570 254	21.3 1053 392 105. 39.1 1248 545 124. 54.5 320 137 32.0 13.7 588 264
High Range Low Range High Range Low Range Low Range Low Range Low Range Low Range Low Range Low Range Low Range Low Range Corchard Grass High Range Low Range Orchard Grass High Range Low Range Migh Range Low Range Corchard Grass High Range Low Range Corchard Grass High Range Low Range	0.0           0.0           0.0           0           0           0           0.0           Sand (           0.0           Sand (           0.0           0.0           0.0           Veepin           0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0           0.0	1.7 1.0 Kilogy 99 13 Kilogy 9.9 1.3 ng (K 72 1.3 ng (K 7.2 1.3 ng (K) 7.4 1.8 0.5 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8	2.3 1.2 ams 103 31 10.3 3.1 10.3 3.1 106 2.9 10.6 2.9 10.6 2.9 10.6 2.9 10.6 2.9 10.7 5 per 2.0 0.7 64 26	3.4 1.7 per H 117 48 per 1 11.7 4.8 ms p 15.1 5.0 15.1 5.0 15.1 5.0 15.1 5.0 15.1 5.0 1000 2.2 1.0 1000 2.3 1.0 1000 2.3 1.0 1000 2.3 1.0 1000 2.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	2.3 141 64 000 \$ 14.0 6.4 14.0 6.4 14.0 6.4 14.0 74 205 74 205 74 205 74 205 74 205 74 205 74 205 74 205 74 205 74 205 74 205 74 14 205 14 14 205 74 14 205 74 14 205 74 14 205 74 14 205 74 14 205 74 14 205 74 14 205 74 14 205 74 14 205 74 14 205 14 14 100 39	3.0 re) 172 80 Squar 17.2 7.9 ectare 266 101 00 Sc 26.6 10.1 38 19 are N 3.8 1.9 124 49	3.8 211 95 e Me 21.1 9.5 335 130 2000 2000 2000 2000 2000 2000 2000	4.7 257 111 25.7 11.1 25.7 11.1 408 161 Mete 40.8 16.1 666 31 5) 6.6 3.1 181 73	5.8 309 126 30.9 12.6 485 194 <b>485</b> 194 <b>485</b> 194 <b>84</b> 37 <b>8.4</b> 3.7 <b>8.4</b> 3.7	6.9 365 142 36.5 14.2 36.5 14.2 228 56.4 22.8 10.3 45 10.3 4.5 248	8.1           425           159           42.5           15.9           645           262           64.5           26.2           124           52           12.4           5.2           284	9.3 489 176 48.9 17.6 297 72.6 29.7 72.6 29.7 146 60 14.6 6.0	10.6 554 194 55.4 19.4 80.6 332 80.6 33.2 169 69 16.9 3356	11.9 621 213 62.1 21.3 62.1 21.3 8883 365 888.3 365 888.3 36.5 191 77 79 19.1 7.7	13.3 689 233 68.9 23.3 957 398 95.7 39.8 95.7 39.8 214 86 21.4 8.6	14.6 755 255 75.5 255 1025 429 1025 429 1025 42.9 236 95 23.6 9.5	16.0         821         279         82.1         27.8         1087         458         108.7         45.8         2256         104         25.6         10.4         492	17.4           884           304           88.4           30.4           1141           485           114.1           48.5           2776           112           27.6           11.2           521	18.7           945           331           94.5           33.1           118.6           508           118.6           50.8           293           121           29.3           12.1           547	20.0 1001 360 100.1 36.0 1221 528 122.1 52.8 308 129 30.8 12.9 570	21.3 1053 392 105. 39.1 124. 54.5 124. 54.5 320 137 32.0 13.7 588

NOTE: Seed rates shown in *bold italics* may be inconsistent

#### Metric Seed Rate Charts for Turf Drive (Continued)

		110								$\sim$ (				~/							
Cup Setting	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Rye Grass - P	erenr	nial (	Kilogr	rams	per He	ectar	e)														
High Range	0	27	51	82	118	158	201	247	295	344	394	443	492	538	582	622	658	690	715	735	747
Low Range	0	24	28	35	46	60	76	95	115	136	157	179	201	222	241	259	274	287	296	302	303
Rye Grass - P	erenr	nial (	Kilogr	rams	per 10	000 S	quare	e Met	ers)												
High Range	0.0	2.7	5.1	8.2	11.8	15.8	20.1	24.7	29.5	34.4	39.4	44.3	49.2	53.8	58.2	62.2	65.8	69.0	71.5	73.5	74.7
Low Range	0.0	2.4	2.8	3.5	4.6	6.0	7.6	9.4	11.5	13.6	15.7	17.9	20.1	22.2	24.1	25.9	27.4	28.7	29.6	30.2	30.3
Sudan Grass	(Kilog	rams	s per l	Hecta	re)																
High Range	0	38	75	118	168	223	284	349	417	488	561	635	709	783	857	928	997	1062	1123	1180	1231
Low Range	0	29	35	47	64	85	111	140	171	205	239	275	310	345	378	409	438	463	485	502	513
Sudan Grass	(Kilog	Irams	s per	1000	Squai	re Me	eters)														
High Range	0.0	3.8	7.5	11.8	16.8	22.3	28.4	34.9	41.7	48.8	56.1	63.5	70.9	78.3	85.7	92.8	99.7	106.2	112.3	118.0	123.1
Low Range	0.0	2.9	3.5	4.7	6.4	8.5	11.1	14.0	17.1	20.5	23.9	27.5	31.0	34.5	37.8	40.9	43.8	46.3	48.5	50.2	51.3
Vetch (Kilogra	ms pe	er He	ctare	)																	
High Range	0	56	100	149	200	254	310	368	427	488	549	611	674	736	797	858	917	975	1031	1085	1136
Low Range	0	14	29	47	66	86	108	131	155	180	205	231	257	283	309	335	361	386	410	433	456
Vetch (Kilogra	ms pe	er 100	00 Sq	uare	Meter	s)															
High Range	0	6	10	15	20	25	31	37	43	49	55	61	67	74	80	86	92	98	103	108	114
Low Range	0	1	3	5	7	9	11	13	15	18	20	23	26	28	31	34	36	39	41	43	46
Wheatgrass -	Cres	ted (	Kilogr	rams	per He	ectar	e)														
High Range	0	38	39	44	54	68	85	105	127	151	176	202	228	254	279	303	324	344	360	373	382
Low Range	0	7	11	17	23	30	38	46	54	64	73	83	93	103	113	123	133	143	152	162	170
Wheatgrass -	Cres	ted (	Kilogr	rams	per 10	000 S	quare	e Met	ers)												
High Range	0.0	3.8	3.9	4.4	5.4	6.8	8.5	10.5	12.7	15.1	17.6	20.2	22.8	25.4	27.9	30.2	32.4	34.3	36.0	37.3	38.2
Low Range	0.0	0.7	1.1	1.7	2.3	3.0	3.8	4.6	5.4	6.3	7.3	8.3	9.3	10.3	11.3	12.3	13.3	14.3	15.2	16.1	17.0
Wheatgrass -	West	ern (	Kiloa	rams	per H	ectar	e)														
High Range	0	10	18	28	41	55	72	90	109	129	150	170	191	212	231	250	268	284	298	310	319
Low Range	0	8	10	13	18	24	32	40	49	59	69	79	90	100	110	120	128	136	143	149	153
Wheatgrass -	West	ern (	Kiloa	rams	per 1	000 5	Squar	e Me	ters)												
High Range	0.0	1.0	1.8	2.8	4.1	5.5	7.2	9.0	10.9	12.9	15.0	17.0	19.1	21.1	23.1	25.0	26.8	28.4	29.8	31.0	31.9

# Small Grass Seeds Attachment (Optional)

#### Seed Rate Speed Change

On the left hand side of your seeder is the small grass seeds drive system. This system is designed to give you two speeds for different types of seeds and rates. The two drive types are high range (fast speed) and low range (slow speed).

To change the drive type on your small seeds drive, loosen the two set screws on the speed change sprocket, turn sprocket over and reassemble. Then remove the bolt on the small seeds drive sprocket, turn sprocket over and reassemble. If you will be using the low range, you will need to add links supplied with the kit as shown in Figure 3-5. Install chains. Adjust idlers to snug up chains.

**NOTE:** The 38 tooth sprocket on the three sprocket assembly is used only for the Agitator Option.

#### **Calibrating & Adjusting Seeding Rate**

Locate the seed rate adjustment handle at the rear of the small seeds box, and move it to the indicator number obtained from the seed rate charts, see page 33. For best results, first move seed rate adjustment handle all the way to the left. Then move the handle to the desired setting, moving from a lower to a higher number.

For further instructions follow directions 2 through 6, "Calibrating & Adjusting Seeding Rate" on page 20.

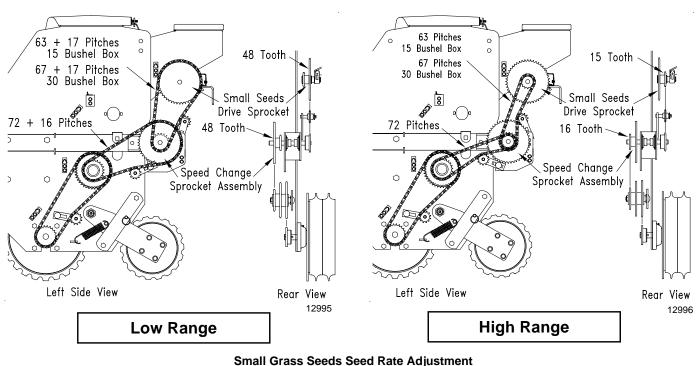


Figure 3-5

#### Section 3: Adjustments

Small Gra	ss S	eed	s A	ttac	hme	ent	See	d Ra	ates	5											
Cup Setting	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Alfalfa (Pound	ds per	Acre	)								-	-									
High Range	0	14	22	24	27	32	38	46	54	64	75	86	99	111	124	138	151	165	178	192	205
Low Range	0	0	1	2	3	4	5	6	7	8	10	11	12	13	14	15	16	17	18	19	20
Alfalfa (Pound	ls per	1000	Squa	are Fe	eet)	<u> </u>	-	1		1			!	1		1	1		<b>!</b>		1
High Range	0.0	0.3	0.5	0.5	0.6	0.7	0.9	1.1	1.3	1.5	1.7	2.0	2.3	2.6	2.9	3.2	3.5	3.8	4.1	4.4	4.7
Low Range	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5
Low Hange	0.0	0.0	0.0	0.0	0.1	0.1	10.1	0.1	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.1	0.1	10.1	0.1	0.0
Bent Grass (F	Pound	s per	Acre	)																	
High Range	0	0	5	11	16	22	27	33	38	44	49	55	60	65	70	74	79	83	87	90	93
Low Range	0	1	1	1	1	2	2	2	3	3	4	4	5	5	6	7	8	9	10	11	12
Bent Grass (F	ound	s per	1000	Squa	are Fe	eet)				1						1			1		
High Range	0.0	0.0	0.1	0.2	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.1
Low Range	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3
								-	-	-		-	-	-	-	-	-	-	1-	-	
Bermuda (Pou	inds p	er Ac	re)																		
High Range	0	4	8	16	24	31	38	44	50	55	61	67	73	79	85	92	100	108	117	126	137
Low Range	0	1	1	1	2	3	3	4	6	7	8	10	11	12	14	15	17	18	20	21	22
Bermuda (Po	unds p	ber 10	00 S	quare	Feet	t)	1			1	1					1			1		
High Range	0.0	0.1	0.2	0.4	0.6	0.7	0.9	1.0	1.1	1.3	1.4	1.5	1.7	1.8	2.0	2.1	2.3	2.5	2.7	2.9	3.1
Low Range	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.5
Lott Hange	0.0	0.0	10.0	10.0	0.0		10	0		10.2	10.2	10.2	10.0	0.0	0.0	10.1	0		10.0	0.0	0.0
Bird's-foot Tr	efoil (	Poun	ds pe	r Acr	e)																
High Range	0	1	11	20	29	39	48	57	67	77	87	97	107	118	128	139	151	162	175	187	200
Low Range	0	0	1	2	3	4	5	7	8	9	10	12	13	14	16	17	18	20	21	22	24
Bird's-foot Tr	-	-	ds ne		-		-	1.	<u> </u>	10	110	1	1.0	1	1.0	1	1.0	120	1		1
High Range	0.0	0.0	0.2	0.5	0.7	0.9	1.1	1.3	1.5	1.8	2.0	2.2	2.5	2.7	2.9	3.2	3.5	3.7	4.0	4.3	4.6
Low Range	0.0	0.0	0.2	0.0	0.1	0.5	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.5
	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.5
Canary Grass	(Dour	de n	or A ci	ro)																	
High Range		1	7	15	22	30	38	45	53	61	68	76	84	92	99	107	115	123	130	138	146
	0	1	1	2	3	4	4	5	6	7	8	9	-	92 11	13		15				-
Low Range	-	 ndo n	01 10	-	-	· ·	· ·	5	0	1	0	9	10		13	14	15	16	17	18	19
Canary Grass	<u>`</u>	1 · ·	1	1	i —	1	<u> </u>	4.0	4.0	4.4	4.0	47	4.0	0.4		0.5					
High Range	0.0	0.0	0.2	0.3	0.5	0.7	0.9	1.0	1.2	1.4	1.6	1.7	1.9	2.1	2.3	2.5	2.6	2.8	3.0	3.2	3.3
Low Range	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4
Clover - Ladii		undo	por	Aara																	
		1	T		22	44	56	60	00	06	100	100	126	149	160	174	105	106	206	214	222
High Range	0	1	10	21 2	32 4	44 5	56 7	69	82	96 11	109 13	123 14	136	149	162	21	185	196	206		
Low Range Clover - Ladii	-	-	1 1		-	-	-	8	10	111	13	14	16	11/	19	21	23	25	27	30	32
	`	-	<u>.</u>			1	- <u>´</u>	4.0	4.0		0.5	0.0	24	2.4	27	4.0	4.0	4 5	4 7	4.0	5.4
High Range	0.0	0.0	0.2	0.5	0.7	1.0	1.3	1.6	1.9	2.2	2.5	2.8	3.1	3.4	3.7	4.0	4.3	4.5	4.7	4.9	5.1
Low Range	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7
Clover - Red		de no	r Acr	<u></u>																	
			1	- <u>í</u>	22	40	50	CF.	70	00	100	400	105	140	104	470	100	205	040	220	240
High Range	-	10	15	23	32	42	53	65	78	92	106	120	135	149	164	178	192	205	218	230	240
Low Range	0	0	1	2	4	5	7	8	10	11	12	14	15	17	18	20	21	23	25	27	29
Clover - Red			-		1		4.0	4 -	4.0			0.0				4.4	4.4	4-	5.0	5.0	
High Range	0.0	0.2	0.4	0.5	0.7	1.0	1.2	1.5	1.8	2.1	2.4	2.8	3.1	3.4	3.8	4.1	4.4	4.7	5.0	5.3	5.5
Low Range	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.7
Clover Sweet	t (Dei	Inda	nor A	ore)																	
Clover - Swee High Range		unas 4	per A 9	cre) 19	30	40	51	62	73	85	97	110	123	136	150	164	179	195	212	229	247
	0		1	2	30 4	40 5	6	62 7	8		-	-	123		-			-			-
Low Ponce	111	0	11	14	4	-	-		0	10	11	12	14	15	17	19	20	22	24	27	29
Low Range	-		0	1000		·	A at a m	- )													
Clover - Swee	et (Kilo	-	1	-	1	-	-	-	4 -		0.0	0.5					4.4	4 -	4.0	50	1
	-	ogram 0.1 0.0	ns pei 0.2 0.0	0.4	) Squ 0.7 0.1	are N 0.9 0.1	/leters 1.2 0.1	s) 1.4 0.2	1.7	2.0	2.2 0.3	2.5 0.3	2.8 0.3	3.1 0.4	3.4 0.4	3.8 0.4	4.1 0.5	4.5 0.5	4.9 0.6	5.3 0.6	5.7 0.7

Small Gra																-		-		_	
Cup Setting	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Fescue K-31(			-	ectare	e)		-	_	_	_	_		-	-	_	-			_		
High Range	0	0	0	4	7	10	13	16	19	23	26	30	34	38	42	47	52	58	64	70	77
Low Range	0	0	0	0	1	1	1	2	2	3	3	3	4	4	5	5	6	6	7	7	7
Fescue K-31	(Pound	ds pe	r 100	0 Squ	uare F	eet)															
High Range	0.0	0.0	0.0	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.8
Low Range	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
Kentucky Blu	ie Gra	ss (P	ound	s per	Acre	)															
High Range	0	2	4	7	10	13	16	19	22	25	28	31	34	37	40	43	46	48	51	54	56
Low Range	0	0	0	0	1	1	1	1	2	2	2	3	3	4	4	4	5	5	6	6	6
Kentucky Blu	ie Gra	ss (P	ound	s per	1000	Squ	are F	eet)	1	1	-	1	1	-	1	1		1	1	1	1
High Range	0.0	0.0	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.0	1.1	1.2	1.2	1.3
Low Range	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
g-							10.0			1010									1		
Lespedeza- U	Inhull	ed (K	lloara	ams n	er He	ctare	<i>i)</i>														
High Range	0	14	26	39	51	64	78	91	105	120	134	150	165	181	197	214	231	248	266	285	303
Low Range	0	0	1	1	2	3	4	5	6	8	9	10	11	13	14	15	17	18	19	203	21
0	-	v			-	Ŭ	•	-	-	0	9		111	15	14	15	11/	10	19	20	21
Lespedeza - I	-				-	-		-		0.7	24	24	2.0	4.0	4.5	4.0	5.2	57	64		17.0
High Range	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.1	3.4 0.2	3.8	4.2	4.5	4.9	5.3	5.7	6.1	6.5	7.0
Low Range	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5
Millet (Kilogra		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
High Range	0	4	8	19	31	43	56	70	83	97	111	125	138	152	166	179	192	204	216	227	238
Low Range	0	0	1	1	2	3	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Millet (Pounds	_i	-		-	et)		_				-	-	_		_	-		_	_		
High Range	0.0	0.1	0.2	0.4	0.7	1.0	1.3	1.6	1.9	2.2	2.5	2.9	3.2	3.5	3.8	4.1	4.4	4.7	5.0	5.2	5.5
Low Range	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4
Red Top (Kilo	grams	per l	Hecta	re)										_							
High Range	0	1	6	11	15	20	24	29	33	37	41	45	49	54	58	62	66	70	74	78	82
Low Range	0	1	1	1	2	2	2	3	4	4	5	6	6	7	8	8	9	10	10	11	11
Red Top (Kilo	grams	per	1000	Squa	re Me	ters)															
High Range	0.0	0.0	0.1	0.2	0.4	0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9
Low Range	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
																				-	-
Rye Grass - F	Perenr	nial (ł	Kiloar	ams i	oer H	ectar	e)														
High Range	0							24	28	32	36	40	43	47	51	55	59	64	68	73	78
Low Range	0	0	0	1	1	2	3	3	4	5	5	6	7	7	8	8	9	10	10	10	11
Rye Grass - F	-	v	v	ls nei	1000	-	-	-	1-	10	10	10	1'	1'	10	10	10	110	110	110	1
High Range	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8
Low Range	0.0	0.0	0.0	0.2	0.0	0.4	0.1	0.0	0.0	0.1	0.0	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
LOW Kange	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.Z	0.2	0.2	0.Z	0.Z	0.2	0.2	[0.2	0.2
Sudan Cross	(Kilor	rome	norl	Jacto	ro)																
Sudan Grass	- <u>-</u>	-	1	1	1	00	40	50	00	70	00	05	400	4.00	400	4.55	475	400	0.10		070
High Range	0	2	4	14	23	33	42	52	62	72	83	95	109	123	139	156	175	196	219	244	272
Low Range	0	0	1	2	3	4	5	6	8	9	10	12	13	14	16	17	19	20	21	23	24
Sudan Grass				-		1				1.	1.	1	1	1-	1	1-		1	1-	1	
High Range	0.0	0.0	0.1	0.3	0.5	0.7	1.0	1.2	1.4	1.7	1.9	2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.2
Low Range	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.6
Timothy (Kilo	grams	per l	lecta	re)																	
High Range	0	0	6	12	19	26	33	40	48	55	63	71	78	86	94	101	108	115	122	128	134
Low Range	0	0	0	1	2	3	4	5	6	7	8	9	10	11	13	14	15	17	19	21	23
Timothy (Kilo	grams	per '	1000	Squa	re Me	ters)										•				•	
High Range	0.0	0.0	0.1	0.3	0.4	0.6	0.8	0.9	1.1	1.3	1.4	1.6	1.8	2.0	2.1	2.3	2.5	2.6	2.8	2.9	3.1
Low Range	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5
_on Runge	1 0.0	0.0	10.0	10.0	10.0	10.1	10.1	10.1	0.1	10.2	0.2	0.2	10.2	10.0	0.0	0.0	10.7	10.7	10.7	10.0	10.0

#### Section 3: Adjustments

Small Gra	ss S	eed	s A	ttac	hme	ent	Met	ric	See	d Ra	ites										
Cup Setting	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Alfalfa (Kilogr	rams p	er He	ectare	e)				-													
High Range	0	16	25	27	30	36	43	51	61	72	84	97	110	125	139	154	170	185	200	215	229
Low Range	0	0	1	2	3	5	6	7	8	9	11	12	13	14	16	17	18	19	20	22	23
Alfalfa (Kilogr	rams p	er 10	00 S	uare	Mete	ers)					1	1	1		1	1		1	!	1	1
High Range	0.0	1.6	2.5	2.7	3.0	3.6	4.3	5.1	6.1	7.2	8.4	9.7	11.0	12.5	13.9	15.4	17.0	18.5	20.0	21.5	22.9
Low Range	0.0	0.0	0.1	0.2	0.3	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.0	2.2	2.3
			-	-				-							_					-	
Bent Grass (	Kilogra	ams p	er He	ectare	e)																
High Range	0	0	6	12	18	24	31	37	43	49	55	61	67	73	78	83	88	93	97	101	105
Low Range	0	1	1	1	2	2	2	3	3	4	4	5	5	6	7	8	9	10	11	12	13
Bent Grass (	Kilogra	ams p	er 10	00 So	quare	Mete					1	1	1	1	1	1	1	1	1	1	1
High Range	0.0	0.0	0.6	1.2	1.8	2.4	3.1	3.7	4.3	4.9	5.5	6.1	6.7	7.3	7.8	8.3	8.8	9.3	9.7	10.1	10.5
Low Range	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3
0						1									1	1					
Bermuda (Kilo	oarams	s per	Hecta	are)																	
High Range	0	5	9	18	27	35	42	49	56	62	68	75	81	88	95	103	112	121	131	142	154
Low Range	0	1	1	2	2	3	4	5	6	8	9	11	12	14	16	17	19	21	22	24	25
Bermuda (Kil	ogram	s per	1000	Sau	are M	-		1-	1-	-	1-	· ·	-	· ·		1 ·	<u> </u>	· ·		1 ·	
High Range	0.0	0.5	0.9	1.8	2.7	3.5	4.2	4.9	5.6	6.2	6.8	7.5	8.1	8.8	9.5	10.3	11.2	12.1	13.1	14.2	15.4
Low Range	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.2	1.4	1.6	1.7	1.9	2.1	2.2	2.4	2.5
		1	1	1		1		1	1			. · ·									
Bird's-foot Tr	efoil (	Kiloa	rams	per H	lectar	e)															
High Range	0	2	12	22	33	43	54	64	75	86	97	108	120	132	144	156	169	182	196	209	224
Low Range	0	0	1	2	3	5	6	7	9	10	12	13	15	16	18	19	21	22	24	25	26
Bird's-foot Tr		-	-		-	-	-			1.0	1	1.0	110	10	10	1.0	1		1	120	20
High Range	0.0	0.2	1.2	2.2	3.3	4.3	5.4	6.4	7.5	8.6	9.7	10.8	12.0	13.2	14 4	15.6	16.9	18.2	19.6	20.9	22 4
Low Range	0.0	0.0	0.1	0.2	0.3	0.5	0.6	0.7	0.9	1.0	1.2	1.3	1.5	1.6	1.8	1.9	2.1	2.2	2.4	2.5	2.6
Low range	0.0	0.0	0.1	0.2	0.0	0.0	10.0	10.1	0.0	1.0		1	1.0	1.0	1.0	1	1			12.0	12.0
Canary Grass	(Kiloc	irams	ner l	Herta	re)																
High Range		1	8	17	25	34	42	51	59	68	77	85	94	103	111	120	129	137	146	155	163
Low Range	0	1	1	2	3	4	5	6	7	8	9	10	12	13	14	15	17	18	19	20	22
Canary Grass	-			-	-	-	-	-		10	15	110	112	10	114	110	117	110	115	120	122
High Range	0.0	0.1	0.8	1.7	2.5	3.4	4.2	, 5.1	5.9	6.8	7.7	8.5	9.4	10.3	11.1	12.0	12.9	13.7	14 6	15.5	16.3
Low Range	0.0	0.1	0.0	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.3	1.4	1.5	1.7	1.8	1.9	2.0	2.2
Low Range	0.0	10.1	10.1	10.2	0.0	10.4	10.0	10.0	10.7	10.0	0.5	1.0	1.2	1.5	1.4	1.0	1.7	1.0	1.5	12.0	2.2
Clover - Ladi	no (Ki	loara	me ne		otara)																
High Range		1	12	23	36	49	63	78	92	107	122	138	152	167	181	195	208	219	230	240	249
Low Range	0	0	1	3	4	6	8	9	11	12	123	16	17	19	21	23	200	215	30	33	36
Clover - Ladi	no (Ki	v	 mc nc	-	•	-	-	-	111	12	14		117	19	21	23	25	20	130	55	130
High Range	0.0	0.1	1.2	2.3	3.6	4.9	6.3	7.8	9.2	10.7	122	120	15.2	16 7	10 1	10.5	20.8	21.0	22.0	240	24.0
Low Range	0.0	0.0	0.1	0.3	0.4	0.6	0.3	0.9	1.1	1.2	12.3	1.6	1.7	1.9	2.1	2.3	2.5	21.9	3.0	3.3	3.6
LOW Kange	0.0	0.0	0.1	0.5	0.4	0.0	0.0	0.9	1.1	1.2	1.4	1.0	1.7	1.9	2.1	2.3	2.5	2.0	3.0	3.3	3.0
Clover - Red	(Kilog	rame	ner L	lactor	<u>(م</u>																
High Range		11	17	26	e) 35	47	59	73	07	102	110	125	151	167	184	200	215	230	244	257	260
Low Range	0	1	1	3	4	6	59 8	9	87 11	103 12	118 14	135 15	151 17	167	20	200	215	230	244	30	269 33
Clover - Red	-					-	-	э		12	14	15	11/	19	20	22	24	20	20	130	33
	<u> </u>	1	<u> </u>	-		1	- <u> </u>	70	07	10.0	11.0	125	15 4	16 7	10 4	20.0	21.5	22.0	24.4	25 7	26.0
High Range Low Range	0.0	1.1	1.7 0.1	2.6 0.3	3.5 0.4	4.7	5.9 0.8	7.3 0.9	8.7	10.3	11.8	13.5 1.5	15.1	16.7 1.9	18.4	20.0	21.5	23.0	24.4	3.0	26.9
Low Range	0.0	0.1	10.1	0.3	0.4	0.6	0.0	10.9	11.1	1.Z	11.4	C.1	11.7	1.9	<u> </u> ∠.0	<u> </u> ∠.∠	L7.4	2.0	2.0	13.0	3.3
Claver Or	ot /1/2				to == (																
Clover - Swe		- <b>-</b>			<u> </u>	45	67	70	00	05	400	400	407	450	400	404		040	007	1050	070
High Range	0	5	10	22	33	45	57	70	82	95	109	123		152	168	184	201	219	237	256	276
Low Range	0	1	1	3	4	5	7	8	9	11	12	14	15	17	19	21	23	25	27	30	32
Clover - Swe	`	<u> </u>	<u> </u>	-		1		-í		le =	4.2.1	4.5.5	4.5 -	4 = -	4.5.1	4.5	100		100 C		67
High Range	0.0	0.5	1.0	2.2	3.3	4.5	5.7	7.0	8.2	9.5		12.3				18.4	-	21.9		_	
Low Range	0.0	0.1	0.1	0.3	0.4	0.5	0.7	0.8	0.9	1.1	1.2	1.4	1.5	1.7	1.9	2.1	2.3	2.5	2.7	3.0	3.2

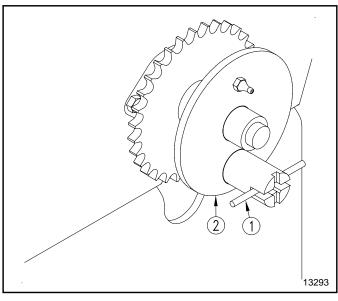
Land Pride

Small Gras	ss S	eed	s A	ttac	hme	ent	Met	ric S	Seed	d Ra	ites	(Co	ntir	nued	d)						
Cup Setting	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Fescue K-31(	Kiloar	ams r	ber H	ectare	<u>e)</u>							-			-						
High Range	0	0	0	4	8	11	15	18	22	25	29	33	38	42	47	53	58	65	71	79	87
Low Range	0	0	0	0	1	1	1	2	2	3	3	4	4	5	6	6	7	7	7	8	8
Fescue K-31 (	-	-	-	-				14	14	19	19			19	10	10	<u></u>	1'	1'	10	10
High Range	0.0	0.0	0.0	0.4	0.8	1.1	1.5	1.8	2.2	2.5	2.9	3.3	3.8	4.2	4.7	5.3	5.8	6.5	7.1	7.9	8.7
	0.0	0.0	0.0	0.4	0.8	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.7	0.8	0.8
Low Range	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.5	0.5	0.4	0.4	0.5	0.6	0.0	0.7	0.7	0.7	0.0	0.0
Kantuala, Dhu		//																			
Kentucky Blu	-					1	<u> </u>	04	0.4			0.4	00	44	45	40	64	54	67	00	00
High Range	0	2	5	8	11	14	17	21	24	28	31	34	38	41	45	48	51	54	57	60	63
Low Range	0	0	0	0	1	1	1	2	2	2	3	3	4	4	5	5	5	6	6	7	7
Kentucky Blu	-	- · ·			1	1	<u> </u>	-	-	1				1	1	1	1- 1	1 - 1	1		
High Range	0.0	0.2	0.5	0.8	1.1	1.4	1.7	2.1	2.4	2.8	3.1	3.4	3.8	4.1	4.5	4.8	5.1	5.4	5.7	6.0	6.3
Low Range	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.7	0.7
Lespedeza- U	-		1	-			-			-		-		-	-				-		
High Range	0	16	30	43	58	72	87	102		134	151	168	185	203	221	240	259	278	298	319	340
Low Range	0	0	1	2	2	3	5	6	7	8	10	11	13	14	16	17	19	20	21	23	24
Lespedeza - L	Jnhul	led (ł	Kilogr	ams p	per 10	)00 S	quare	e Met	ers)												
High Range	0.0	1.6	3.0	4.3	5.8	7.2	8.7	10.2	2 11.8	13.4	15.1	16.8	18.5	20.3	22.1	24.0	25.9	27.8	29.8	31.9	34.0
Low Range	0.0	0.0	0.1	0.2	0.2	0.3	0.5	0.6	0.7	0.8	1.0	1.1	1.3	1.4	1.6	1.7	1.9	2.0	2.1	2.3	2.4
Millet (Kilogra	ms pe	r Hec	tare)																		
High Range	0	4	9	21	35	49	63	78	93	109	124	140	155	171	186	200	215	229	242	254	266
Low Range	0	0	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	18	19
Millet (Kilogra	ms pe	r 100	0 Sq	uare I	Veter	s)	1			1								1			-
High Range	0.0	0.4	0.9	2.1	3.5	, 4.9	6.3	7.8	9.3	10.9	12.4	14.0	15.5	17.1	18.6	20.0	21.5	22.9	24.2	25.4	26.6
Low Range	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.8	1.9
	_			-			4						-						-	-	
Red Top (Kilog	nrams	ner l	Hecta	ire)																	
High Range	0	1	6	12	17	22	27	32	37	42	46	51	55	60	64	69	74	78	83	88	92
Low Range	0	1	1	1	2	2	3	3	4	5	6	6	7	8	9	10	10	11	11	12	12
Red Top (Kilog	-	· ·		Sana	<u> </u>	1-	19	<u> </u>		19	10	10	11	10	3			1.1.1	1	12	112
High Range	0.0	0.1	0.6	1.2	1.7	2.2	2.7	3.2	3.7	4.2	4.6	5.1	5.5	6.0	6.4	6.9	7.4	7.8	8.3	8.8	9.2
	0.0	0.1	0.0	0.1	0.2	0.2	0.3	0.3	0.4	0.5	4.0	0.6	0.7	0.0	0.4	1.0	1.0	1.1	1.1	1.2	1.2
Low Range	0.0	0.1	0.1	0.1	0.2	0.2	0.5	0.5	0.4	0.5	0.0	0.6	0.7	0.0	0.9	1.0	1.0	1.1	1.1	1.Z	1.Z
Rye Grass - P	0.000		/ilear		or H	ootor	<b>~</b> )														
		1	1	-	1		-	07	24	200	40	44	40	50	57	60	67	74	70	00	07
High Range	0	1	3	8	13	18	23	27	31	36	40	44	49	53	57	62	67	71	76	82	87
Low Range	-	0	0	1	2	2	3	4	4	5	6	7	7	8	9	9	10	11	11	12	12
Rye Grass - P			-		-			-	1		4.0	4.1	4.0	5.0	10-				17.0		
High Range	0.0	0.1	0.3	0.8	1.3	1.8	2.3	2.7	3.1	3.6	4.0	4.4	4.9	5.3	5.7	6.2	6.7	7.1	7.6	8.2	8.7
Low Range	0.0	0.0	0.0	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.7	0.8	0.9	0.9	1.0	1.1	1.1	1.2	1.2
•	(1.4)																				
Sudan Grass	1	1	r		1	1.	1.	1	1.	1	1-	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
High Range	0	2	4	15	26	36	47	58	69	81	93	107	122	138	156	175	196	220	245	274	
Low Range	0	0	1	2	3	5	6	7	9	10	12	13	15	16	18	19	21	22	24	26	27
Sudan Grass	1	1	1	-		1	-		_		1	-	1		-	-					
High Range	0.0	0.2	0.4	1.5	2.6	3.6	4.7	5.8	6.9	8.1	9.3		-		_	_		_	_		30.5
Low Range	0.0	0.0	0.1	0.2	0.3	0.5	0.6	0.7	0.9	1.0	1.2	1.3	1.5	1.6	1.8	1.9	2.1	2.2	2.4	2.6	2.7
Timothy (Kilog	grams	per l	lecta	re)																	
High Range	0	0	7	14	21	29	37	45	54	62	71	79	88	96	105	113	121	129	136	143	150
Low Range	0	0	0	1	2	3	4	5	6	7	9	10	11	13	14	16	17	19	21	23	26
Timothy (Kilog	grams	per 1	000	Squa	re Me	ters)	•			•											
High Range	0.0	0.0	0.7	1.4	2.1	2.9	3.7	4.5	5.4	6.2	7.1	7.9	8.8	9.6	10.5	11.3	12.1	12.9	13.6	14.3	15.0
Low Range	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.3	1.4	1.6	1.7	1.9	2.1	2.3	2.6
	10.0	10.0	10.0	10.1	<u>-</u>	10.0	10.1	10.0	10.0	10.1	10.0	10		1.10	1	10	1	1.10	1	1=.0	

#### Agitator Attachment (Optional) Engaging & Disengaging the Agitator Sprocket

#### Refer to Figure 3-6:

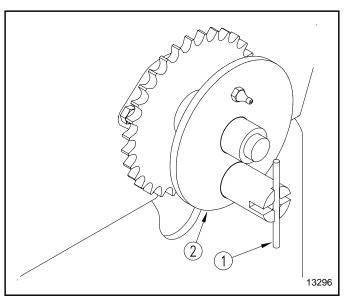
To engage agitator pull spring-loaded pin (#1) and place in Position 1 making sure the sprocket is connected by rotating the lockout hub (#2) clockwise until it is locked.





#### Refer to Figure 3-7:

To disengage the agitator, pull spring-loaded pin (#1) and place in Position 2 making sure the lockout hub (#2) turns freely.



Position 2 Figure 3-7

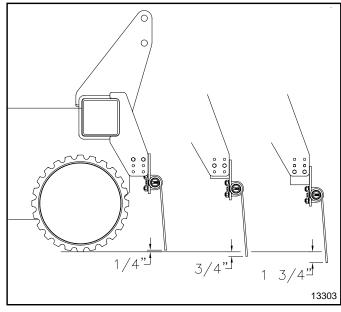
#### **Calibrating and Adjusting Seed Rate**

Follow directions see "**Calibrating & Adjusting Seeding Rate**" on page 20 and Seed Rate Charts on page 25 and page 28.

# **Coil Tines (Optional)**

#### **Height Adjustment**

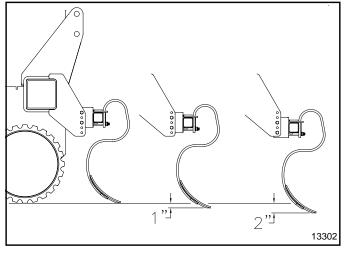
Adjust height as needed, see Figure 3-8.



Coil Tines Height Adjustment Figure 3-8

#### Danish Tines (Optional) Height Adjustment

Adjust height as needed, see Figure 3-9.



Danish Tines Height Adjustment Figure 3-9

13268

# Walkboard (Optional)

#### Adjustment w/ Small Grass Seeds Attach

If you install a Small Grass Seeds Attachment you will need to relocate the Walkboard as shown in Figure 3-10 & Figure 3-11.

# Figure 3-10

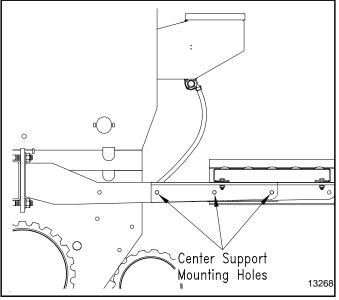
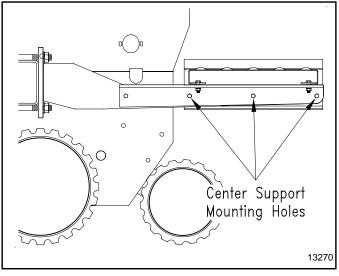


Figure 3-11



Adjustment w/o Small Grass Seeds Attach

If you remove your Small Grass Seeds Attachment from your seeder, it will be necessary to move the Walkboard

as shown. See Figure 3-12 & Figure 3-13.

Figure 3-13

Section 4: Maintenance and Lubrication



#### Maintenance

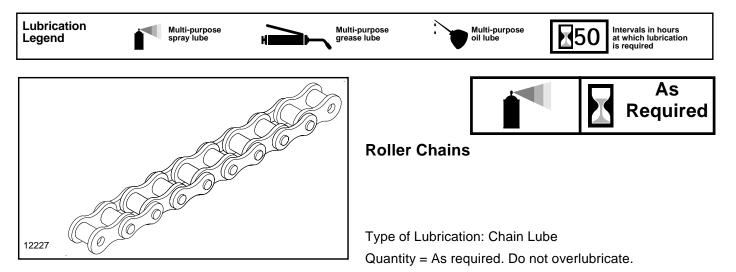
Proper servicing and adjustment is the key to the long life of any implement. With careful and systematic inspection, you can avoid costly maintenance, time and repair.

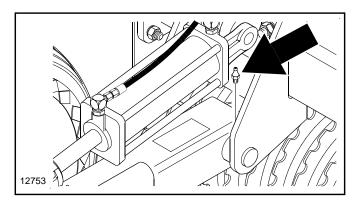
- 7. After using your seeder for several hours, check all bolts to be sure they are tight.
- 8. Lubricate areas noted in the "Lubrication" section.
- Adjust idlers to remove excess slack from chains. Clean and use chain lube on all roller chains as needed.
- 10. Feed cup drive sprocket should be oiled in its square bore. Move feed cup adjustment lever away from sprocket as far as possible in order to get oil back into square.
- 11. Always maintain proper air pressure in tires.
- 12. Replace any worn, damaged or illegible safety labels by obtaining new labels from your Land Pride Dealer.
- 13. Inspect safety chain and hardware for wear or other damage.

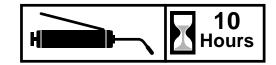
#### Storage

- At the end of the working season or when your Primary Seeder will not be used for a long period, it is good practice to clean off any dirt or grease that may have accumulated on the seeder and any of the moving parts.
- 2. Be sure that the seed box is completely cleaned before storing.
- 3. The square bore of the feed cup drive sprocket hub should be oiled to prevent seizing. Squirt oil on to the square feed cup shaft and move feed cup adjustment lever back and forth in order to get the oil back into the square.
- 4. Lubricate all fittings as indicated in the following illustrations.
- 5. When in storage, lower the seeder with rollers on a board or hard surface and adjust the parking stand or tongue jack.
- 6. For seeders with front or end wheels, apply a light coat of oil to exposed cylinder rods.
- 7. Repaint parts where paint is worn or scratched to prevent rust.
- 8. Store the seeder inside if possible. Inside storage will reduce maintenance and make for a longer seeder life.

# Lubrication

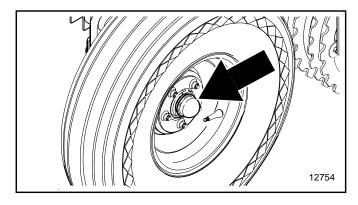






Wheel Arm Pivot Shafts

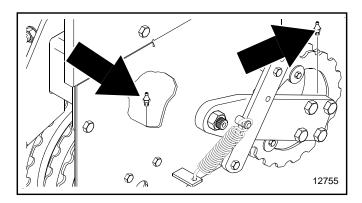
Type of Lubrication: Multi-Purpose





Wheel Bearings

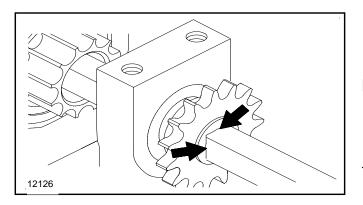
Type of Lubrication: Wheel Bearing Grease Quantity = Repack





Front and Rear Roller Bearings

Type of Lubrication: Multi-Purpose





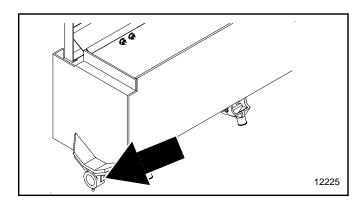
Feeder Cup Drive Sprocket

Type of Lubrication: Oil

#### Land Pride

#### **Table of Contents**

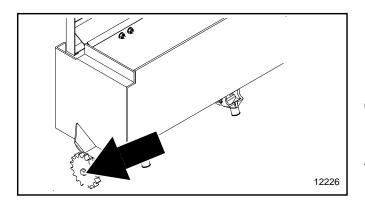
Section 4: Maintenance and Lubrication





Drive Sprocket Hanger Bearing (Small Grass Seeds Attachment)

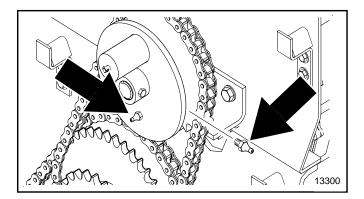
Type of Lubrication: Multi-Purpose





Feeder Cup Drive Sprocket (Small Grass Seeds Attachment)

Type of Lubrication: Oil

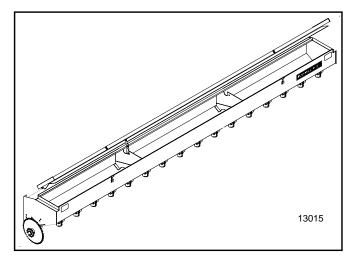




Agitator Lockout (Agitator Attachment)

Type of Lubrication: Multi-Purpose



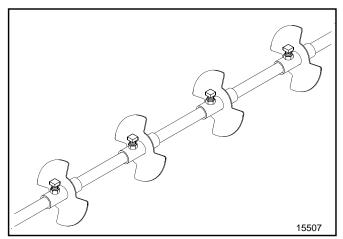


# Small Seeds Attachment 313-113A

The Small Seeds Attachment is designed to seed various small seeds. It is driven independently of the main seed box with a high range (fast speed) or low range (slow speed). The small seeds box features a 0.42 bushel/foot (48.6 liters/meter) profile for a total 4 bushel (141 liters) capacity.

For additional information refer to:

- "Important Safety Information" on page 1
- "Section 3: Adjustments" on page 18
- "Section 4: Maintenance and Lubrication" on page 39

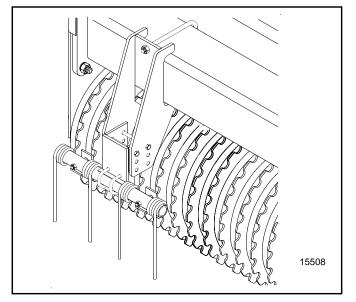


# Agitator Attachment 313-079A

The Agitator Attachment is used with fluffy, hard to plant seeds, such as brome.

For additional information refer to:

- "Important Safety Information" on page 1
- "Section 2: Operating Instructions" on page 13
- "Section 3: Adjustments" on page 18
- "Section 4: Maintenance and Lubrication" on page 39

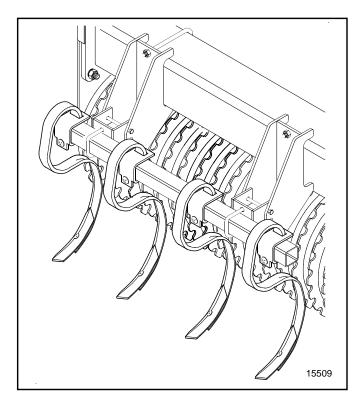


# Coil Tine Track Removers 313-078A

Spring loaded tines help eliminate tractor tire tracks.

For additional information refer to:

• "Section 3: Adjustments" on page 18



# 

# Danish Tine Track Removers 313-077A

Tines help eliminate tractor tire tracks and work the soil.

For additional information refer to:

• "Section 3: Adjustments" on page 18

# Walkboard 313-130A

The PS25120 Walkboard is designed for easier access to the seedbox.

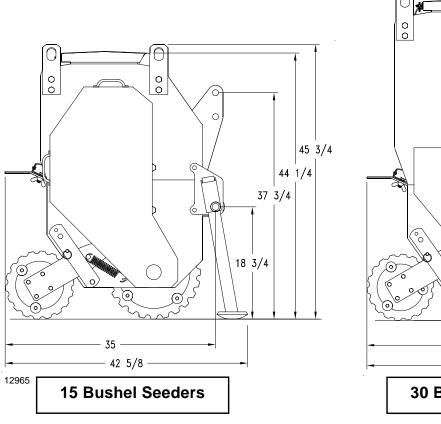
For additional information refer to:

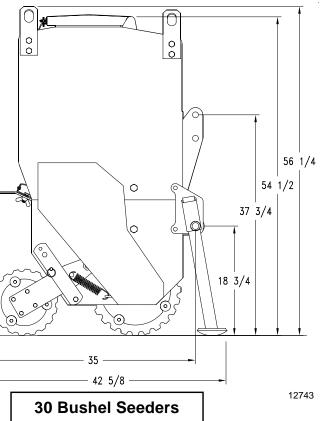
- "Important Safety Information" on page 1
- "Section 3: Adjustments" on page 18

#### Section 6: Specifications & Capacities

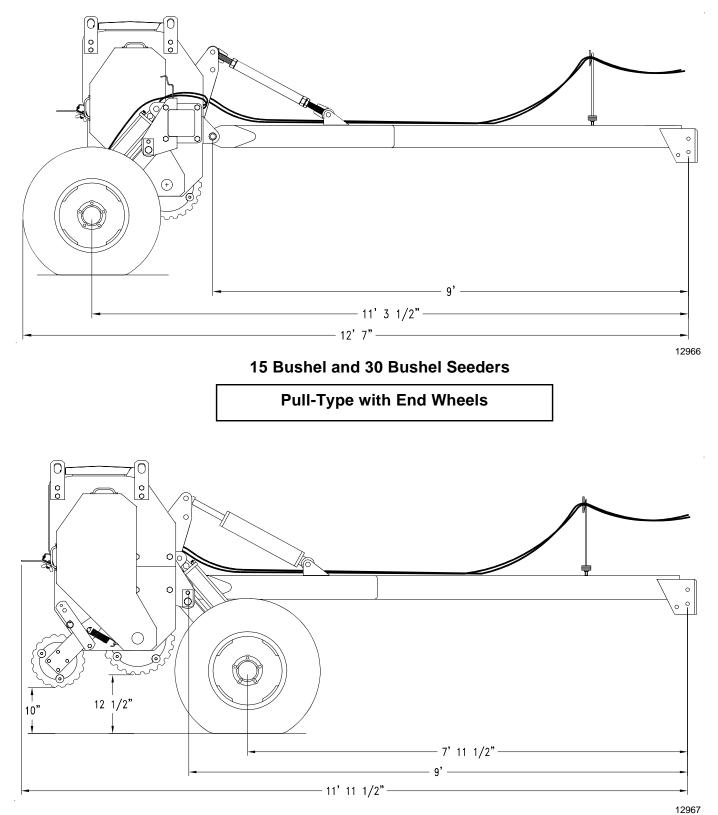


PS25 Series Primary Seeder									
	Model PS25120 Primary Seeder								
Transport Width	10' 6"								
Transport Width with End Wheels	13' 6"								
Box Width	10'								
Seeding Width (Broadcast)	10'								
Weight (approximate) 3-Point	15 Bushel Seeder = 2850 lbs. 30 Bushel Seeder = 2940 lbs.								
Weight (approximate) Tongue	200 lbs.								
Weight (approximate) Wheels (each)	190 lbs.								
Hitch Type	Category 2, Quick Hitch Adaptable								
Tire Size	9.5L x 15 8-Ply								
Box Capacity	3 bushel per foot								
Feed Cup Drive	Chain driven from right side of front roller								
Front Roller Wheels	15 5/8" notched, cast iron, each free floating								
Front Roller Bearings	1 1/2" Sealed, greaseable								
Front Roller Mounting Tube	12 3/4" OD x 1/4" wall								
Front Roller Bearings	1 1/2" sealed, greaseable								
Rear Roller Wheels	52-11 3/8" notched, cast iron, each free floating								
Rear Roller Bearings	1 1/4" sealed, greaseable								









#### 15 Bushel and 30 Bushel Seeders

Pull-Type with Front Wheels



#### **PS25 Series Primary Seeder**

Features	Benefits
Cat. 2 3-Point Quick hitch adaptable	Cat. 2 3-Point for larger tractors to handle the weight, or Pull-type for smaller tractors. Quick hitch allows for easy connecting and disconnecting.
Machine weight	2,940 lbs. (3-point)
Front mounted wheels - Pull-type	Front mounted wheels narrow the unit up for transport or going through gates.
Side mounted wheels - Pull-type	Side mounted wheels gives a smoother transport, and lowers the negative tongue weight.
15 or 30 Bushel seed capacity	30 Bushel is ideal for the sod farmer and grain growers.
Seed level indicator	Check seedbox level from the tractor seat.
All welded weatherproof seedbox	Keeps rain and rodents out, and gives rigidity to seedbox.
Heavy-duty lock-up lid	Lids are precision fit to keep seeds dry and rodents out and they won't buckle or slam shut in high winds.
Lift hooks	For easy loading on to trailers
Transport locks – Pull-Type	Keeps wheels in transport position if cylinders were to fail during transport.
Vacuum sealed acremeter	Vacuum sealed to keep dirt out. Acremeter to plan seed requirements.
Fluted sprocket seed cups	The right amount of seed is picked up by the fluted sprockets every time.
Powder metal in the fluted sprocket	Powder metal in the seed cup sprockets helps dissipate heat caused by the friction between the sprocket and housing.
Adjustable seed opening	Seed opening can be 'enlarged' by sliding a lever. Larger opening for fluffy seed allows for easier flow.
Removable tongue on Pull-type	Tongue is easy to remove. Convenient for storage or when loaded on a trailer.
Cast iron packer wheels	15 5/8" diameter front rings and 11 3/8" diameter rear rings are used to crush the clods and pack the seed in to promote seed to soil contact.
Spring mounted rear packers	Rear packer wheels are spring loaded for additional down pressure, and to stay in contact with the ground.
Notched spacers for rear roller (optional)	Spacer fits between each packer wheel for additional packing capabilities.
Agitator (optional)	Eliminates bridging with fluffy seed above seed cup opening.
Walkboard (optional)	Convenient for filling the tall 30 bushel box.
4 Bushel Small Seeds Box (optional)	Small Seeds Box for simultaneously seeding two types of seeds. By dividing them, it keeps from the two separating in one box.
Tire track removers (optional)	Tire track removers scrape the dirt up behind the tractor tires to ensure seed-to-soil contact. Not compatible with front mounted wheels.
#40 Roller chain	All drives utilize #40 roller chain for smooth running.

Section 8: Troubleshooting

# **Table of Contents**



Problem	Solution					
Uneven seed spacing or uneven stand	Check for plugging in feed cup					
	Check to see if seed tubes are plugged					
	Check for plugging in seed broadcasting channel					
	Reduce ground speed					
	Check for trash or mud build up on rollers					
Actual seeding rate is different than desired	Seed treatment will affect seeding rate if the chemicals build up in feed cup. Unless cleaned regularly, this build up can cause breakage of the feeder cup shaft.					
	Check speed change sprocket					
	See manual for instructions on calculating seed rate					
Acremeter doesn't measure accurately	Check planting operation for excessive overlap or gaps between passes					
	Loose soil conditions and slippage of front roller will cause variations in acres registered					
Raising and lowering seeder is rough or	Lubricate wheel arm pivot shaft					
uneven on front or end wheel seeders	Check hydraulic fittings for leaks. Refer to " <b>Tractor Hydraulic Hook-Up</b> " on page 15.					
	Rephasing cylinders not properly bled. Refer to " <b>Tractor Hydraulic Hook-Up</b> " on page 15.					
	When raising seeder, the cylinders should be fully extended to insure that they are always rephased.					
Feed cup sprocket locked up or twisted seed cup drive shaft	Check for foreign matter lodged in feed cup sprocket					
Rollers not turning freely	Check for trash or mud build up on roller ends					



Torque Values Chart														
		Bolt	Head Ic	dentifica	ation				Bolt Head Identification					
Bolt Size (Inches)	Grade 2						Bolt Size (Metric)	Clas	.8 s 5.8	Clas	.8 s 8.8	Class		
<b>in-tpi <sup>1</sup></b> 1/4" - 20		ft-lb <sup>3</sup>	N • m		<b>N</b> ⋅ m		mm x pitch		ft-lb	N ⋅ m		N ⋅ m	ft-lb	
1/4 - 20	7.4 8.5	5.6 6	11 13	8 10	16 18	12 14	M 5 X 0.8 M 6 X 1	4 7	3 5	6 11	5 8	9 15	7 11	
5/16" - 18	15	11	24	17	33	25	M 8 X 1.25	17	12	26	o 19	36	27	
5/16 - 18	17	13	24 26	19	33 37	25		18	12		21	30 39	29	
3/8" - 16	27	20	20 42	31	59	44	M 8 X 1 M10 X 1.5	33	24	28 52	39	39 72	29 53	
3/8" - 24	27 31	20	42	35	59 67	49	M10 X 1.5	39	24 29	52 61	39 45	72 85	55 62	
7/16" - 14	43	32	47 67	49	95	49 70	M10 X 0.75 M12 X 1.75	59 58	29 42	91	45 67	125	02 93	
7/16" - 20	43 49	36	75	49 55	105	78	M12 X 1.75	60	44	95	70	130	93 97	
1/2" - 13	49 66	49	105	76	145	105	M12 X 1.3	90	66	105	77	145	105	
1/2" - 20	75	49 55	115	85	165	120	M12 X 1 M14 X 2	92	68	145	105	200	150	
9/16" - 12	95	70	150	110	210	155	M14 X 1.5	99	73	155	115	1215	160	
9/16" - 18	105	79	165	120	235	170	M14 X 1.0	145	105	225	165	315	230	
5/8" - 11	130	97	205	150	285	210	M16 X 1.5	155	115	240	180	335	245	
5/8" - 18	150	110	230	170	325	240	M18 X 2.5	195	145	310	230	405	300	
3/4" - 10	235	170	360	265	510	375	M18 X 1.5	220	165	350	260	485	355	
3/4" - 16	260	190	405	295	570	420	M20 X 2.5	280	205	440	325	610	450	
7/8" - 9	225	165	585	430	820	605	M20 X 1.5	310	230	650	480	900	665	
7/8" - 14	250	185	640	475	905	670	M24 X 3	480	355	760	560	1050	780	
1" - 8	340	250	875	645	1230	910	M24 X 2	525	390	830	610	1150	845	
1" - 12	370	275	955	705	1350	995	M30 X 3.5	960	705	1510	1120	2100	1550	
1-1/8" - 7	480	355	1080	795	1750	1290	M30 X 2	1060	785	1680	1240	2320	1710	
1 1/8" - 12	540	395	1210	890	1960	1440	M36 X 3.5	1730	1270	2650	1950	3660	2700	
1 1/4" - 7	680	500	1520	1120	2460	1820	M36 X 2	1880	1380	2960	2190	4100	3220	
1 1/4" - 12	750	555	1680	1240	2730	2010	<sup>1</sup> in-tpi = nom	inal thre	ad diam	eter in ir	nches-th	ireads p	er in.	
1 3/8" - 6	890	655	1990	1470	3230	2380	$^{2}$ N·m = newto							
1 3/8" - 12	1010	745	2270	1670	3680	2710	<sup>3</sup> ft-lb= foot po							
1 1/2" - 6	1180	870	2640	1950	4290	3160			l thread	diamete	er in milli	meters	(thread	
1 1/2" - 12														
Torque tolera	brque tolerance + 0%, -15% of torquing values. Unless otherwise specified use torque values listed above.													

Tire Inflation Chart								
TireSize	Inflation PSI							
9.5L x 15" 8-Ply Rib Implement	44							

#### Warranty

Land Pride warrants to the original purchaser that this Land Pride product will be free from defects in material and workmanship beginning on the date of purchase by the end user according to the following schedule when used as intended and under normal service and conditions for personal use.

Overall Unit: One year Parts and Labor

Packer Wheels are considered wear items

Optional Pull Tongue: One year Parts and Labor

This Warranty is limited to the replacement of any defective part by Land Pride and the installation by the dealer of any such replacement part, and does not cover common wear items. Land Pride reserves the right to inspect any equipment or parts which are claimed to have been defective in material or workmanship.

This Warranty does not apply to any part or product which in Land Pride's judgment shall have been misused or damaged by accident or lack of normal maintenance or care, or which has been repaired or altered in a way which adversely affects its performance or reliability, or which has been used for a purpose for which the product is not designed. Misuse also specifically includes failure to properly maintain oil levels, grease points, and driveline shafts.

Claims under this Warranty should be made to the dealer which originally sold the product and all warranty adjustments must be made through an authorized Land Pride dealer. Land Pride reserves the right to make changes in materials or design of the product at any time without notice.

This Warranty shall not be interpreted to render Land Pride liable for damages of any kind, direct, consequential, or contingent to property. Furthermore, Land Pride shall not be liable for damages resulting from any cause beyond its reasonable control. This Warranty does not extend to loss of crops, any expense or loss for labor, supplies, rental machinery or for any other reason.

No other warranty of any kind whatsoever, express or implied, is made with respect to this sale; and all implied warranties of merchantability and fitness for a particular purpose which exceed the obligations set forth in this written warranty are hereby disclaimed and excluded from this sale.

This Warranty is not valid unless registered with Land Pride within 30 days from the date of purchase by the end user.



Corporate Office: P.O. Box 5060 Salina, Kansas 67402-5060 USA www.landpride.com

Download from Www.Somanuals.com. All Manuals Search And Download.

Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com