

# Introduction

- Perennial peanut (Arachis glabrata) also known as Rhizoma peanut.
- Warm-season legume planted on approx. 28,000 acres in Florida and 30,000 acres in the southeastern US.
- Alternative to alfalfa in Florida because of yield (approx. 5 ton/acre), forage quality, and persistence under Florida conditions.



# Value Fix Nitrogen High Nutritive Value Perennial









# **Early Evaluations**

- 1936 two entries introduced to FL by Hull from plant explorer in Brazil
  - Became 'Arb' and was planted in Brooksville
  - From the other came the material that is known as Florigraze
- \* 1959 Arbrook is introduced from Paraguay
- 1961 first trials with material collected in 1936
- **\* 1978** release of Florigraze
- 1985 release of Arbrook

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Characteristic	Arbrook	Florigraze
Growth habit	Upright	Decumbent
		Dr. Yoana Newr



![](_page_3_Picture_0.jpeg)

Characteristic	Arbrook	Florigraze
Growth habit	Upright	Decumbent
Ground cover	Slow	Moderate
Grazing Tolerance	?	ModHigh

![](_page_3_Picture_2.jpeg)

# **Pest Tolerance**

- Insect resistant
- Low susceptibility to early & late leaf spot, rust, and root knot nematodes
- Virus present under stress symptoms

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![](_page_4_Picture_0.jpeg)

![](_page_4_Picture_1.jpeg)

![](_page_4_Figure_2.jpeg)

![](_page_4_Figure_3.jpeg)

Perennial Peanut			
• Soil:			
Sandy clay loa	m		
<ul> <li>pH: 5.8 - 7</li> <li>Cold tolerance: Lacks</li> <li>Bloat potential: None</li> <li>Production: Mar - Oct</li> <li>Use: Hay, grazing</li> </ul>	Tito		
UF ELOPIDA	Dr. Yoana Newman		

Planting			
Planting Date:	Dec - March (dormant); May – June Allow for rhizome development before killing frost (to avoid reduced yield in spring)		
Planting Depth:	1-2 inches		
Seeding Rate:	<ul> <li>80 to 100 bu/acre (1 bu= 1.25 cubic ft)</li> <li>1200 1500 lb/acre (1 bu= 11 to 15 lb) highly variable depending on how wet the sprigs are when dug)</li> <li>1 acre plants 20 acres more or less</li> </ul>		

	<ul> <li>\$3/bushel</li> <li>custom sprigged:</li> <li>\$275/acre + delivery costs</li> <li>(\$2.50 per loaded mile)</li> </ul>
Fertilization	15 to 20 lb N, P and K (follow soil test report)
Notes:	
Inoculation o bacteria (Rhi is passed wi	of the rhizomes with the N fixing izobium) is not necessary because it th the planting material.

![](_page_5_Picture_3.jpeg)

![](_page_6_Picture_0.jpeg)

# **Establishment**

### PLANTING

- Plant at beginning of rains
- Use fresh material (1500 2000 lb/acre)

# Care of vegetative seed (tops or sprigs)

- If needing to store the vegetative material (keep the moisture and place under the shade)
- In ideal situations, do not store beyond one day
- 1 hour in extreme conditions ⇒
   damages the seed

	the second s
Exposure time	% Sprigs Alixe at Planting
No exposure	100
2 hours, (9 a.m. – 11 a.m.)	94
4 hours, (9 a.m. – 1 p.m.)	72
2 hours, (12 noon – 2 p.m.)	30
4 hours, (12 noon – 4 p.m.)	3
8 hours, shade and moist	100
(9 a.m. – 5 p.m.)	AND A TRUNCH STORE

• Plant sprigs same day (within 1 hr after dug)

![](_page_7_Picture_0.jpeg)

![](_page_7_Figure_1.jpeg)

![](_page_7_Picture_2.jpeg)

## Planting

- Broadcast
- Distribute uniformly
- Incorporate with:
- a. Crimper or
- b. Disc set straight or offset (to cover not to cut)
- Cover 2-3 years

![](_page_8_Picture_0.jpeg)

Herbicides for Perennial Peanut*				
Trade/Common Name	Common Name	Broadcast (rate/acre)	Observations	
2,4-D Amine Weed Killer	2,4-D	1 pt / acre 0.5 lb	•Controls broadleaf •Apply any time •30-day haying restriction •Slight yield decrease in Florigraze	
*Ferrell and Sellers, 2009 – Univ. of Florida				

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Select Max Arrow, Select, Trigger are not legal	Clethodim	32 oz/acre	•Requires surfactant or crop oil •40-day grazing or haying restriction	
*Ferrell and Sellers, 2009 – Univ. of Florida				

# Hay production

per cutting: 2,000-3000 lb/acre
season total: 7,000-10,000 lb/acre

![](_page_9_Picture_3.jpeg)

![](_page_9_Picture_4.jpeg)

![](_page_9_Picture_5.jpeg)

![](_page_9_Picture_6.jpeg)

![](_page_10_Picture_0.jpeg)

# **Electronic Fact Sheets**

![](_page_10_Picture_2.jpeg)

![](_page_10_Picture_3.jpeg)