

# Peanut Seeding Rate Considerations

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## Introduction

Successful stand establishment determines the overall success of crop production for the season, and peanuts are no exception. This publication describes seeding rate considerations for irrigated edible peanut production in Texas.

## Target plant stand

Target plant stands of **four to six plants/ft** are required for maximum peanut production. To achieve this, seeding rates must exceed the target density, as some seeds may fail to germinate for various reasons.

## Target soil temperature at planting

The optimum soil temperature for peanut germination is at least 68°F for three consecutive days, with no cold front in the forecast. Cold snaps and dry soil conditions can delay germination of peanuts. The longer seeds stay in the soil, the more susceptible they become to soil-borne seedling diseases. Before making a planting decision, check current soil temperatures for each field and the extended forecast.

## Target seeding rates in seeds/acre.

Table 1 lists the number of seeds required per acre for seeding rates ranging from 4 to 7 seeds/ft across various row spacings. For example, at a 30' row spacing, 69,696 seeds/acre are required to achieve a seeding rate of 4 seeds/ft.

## Target seeding rates in pounds/acre.

Table 2 lists the average seed counts/lb for common peanut varieties. Seed size varies significantly by market type (e.g., Runner, Spanish, Virginia, and Valencia), varieties, and specific seed lot. For example, seed count/lb of Span17, GA09b, and AG18 are approximately 747, 723, and 739 seeds/lb, respectively. However, because these numbers fluctuate between seed lots, **always refer to the seed tag** on the bag for the most accurate data. Use the specific count listed on the tag to calculate the pound/acre required for your row spacing.

**Table 1. Number of seeds/a at various seeding rates and row spacings**

Row width	4 seeds/ft				5 seeds/ft				6 seeds/ft				7 seeds/ft			
	30"	36"	38"	40"	30"	36"	38"	40"	30"	36"	38"	40"	30"	36"	38"	40"
	<b>Seeds/acre</b>															
Single row Seeds/acre	69696	58080	55023	52272	87120	72600	68779	65340	104544	87120	82535	78408	121968	101640	96291	91476

**Table 2. Seeding rate in pounds per acre at various row spacings.**

Seeds/ft	4 seeds/ft				5 seeds/ft				6 seeds/ft				7 seeds/ft			
Row width	30"	36"	38"	40"	30"	36"	38"	40"	30"	36"	38"	40"	30"	36"	38"	40"
	<b>Pounds/acre</b>															
Span17 <sup>1</sup>	93	78	74	70	117	97	92	87	140	117	110	105	163	136	129	122
GA09b <sup>2</sup>	96	80	76	72	120	100	95	90	145	120	114	108	169	141	133	127
AG18 <sup>3</sup>	94	79	74	71	118	98	93	88	141	118	112	106	165	138	130	124

<sup>1</sup>Average seed count per pound of Span17 over five years was 747 seeds per pound; <sup>2</sup>Average seed count per pound of GA09b over five years was 723 seeds per pound; <sup>3</sup>Average seed count per pound of AG18 over five years was 739 seeds per pound.

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