



# SPINACH GUIDE 2023–2024

AUSTRALIA



# LET'S GROW BETTER TOGETHER

Seminis is proud to operate on the belief that every generation can be better than the last. It's a principle that goes well beyond innovative vegetable seed development. We believe that if tomorrow is to be better for our partners, it's up to us to work in collaboration to make it so.

This strongly held conviction allows us to fully understand and deliver on the unique needs of open-field and protected growers in greenhouse growing environments. Partnering with everyone from fresh market growers to processing professionals, and small scale to large commercial farmers, we offer more than 20 different crops in more than 150 countries and territories.



# SPINACH



## MAGNETIC

Magnetic is adaptable to summer sowing. It has High Resistance to Downy mildew, oval-shaped leaves, nice savoyness, mid-light green leaves and upright growth.

### FEATURES

**Vigour Scale: (1–10)**  
3

**Leaf shape:**  
Oval to slightly pointed

**Smoothness:**  
Smooth to semi-savoy

**Leaf colour:**  
Mid-light green

**Resistance:**  
HR Pe:1–15,17

**Usage:**  
Baby leaf



## SV2146VB

SV2146VB has a broad planting window and heat tolerance, making it most ideal for summer conditions. Its leaves are round, dark green and semi-savoy.

### FEATURES

**Vigour Scale: (1–10)**  
3

**Leaf shape:**  
Oval

**Smoothness:**  
Semi-savoy

**Leaf colour:**  
Dark green

**Resistance:**  
HR Pe:1–13,15,16,18

**Usage:**  
Baby leaf



## SV2157VB

SV2157VB is a spinach that radiates during summer heat. This variety has an excellent amount of thickness with uniformity in leaf size and field-holding ability. Its dark, glossy leaves and good yield potential make it an attractive variety that adapts well to summer production.

### FEATURES

**Vigour Scale: (1–10)**  
3

**Leaf shape:**  
Oval

**Smoothness:**  
Semi-savoy

**Leaf colour:**  
Dark green

**Resistance:**  
HR Pe:1–13,15,16,18

**Usage:**  
Baby leaf

# SPINACH

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LATEST



## KONA

Kona is savoy to semi-savoy with medium dark green colour, round to oval in shape, semi erect plant habit, leaves are thick and very uniform. High yield potential most suited for warmer time slot.

### FEATURES

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**Vigour Scale: (1–10)**

3

**Leaf shape:**

Round to oval

**Smoothness:**

Savoy to semi-savoy

**Leaf colour:**

Medium dark green

**Resistance:**

HR Pe:1–15,17

**Usage:**

Baby leaf

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## SV3580VC

SV3580VC is a reliable and versatile, dark green smooth leaf spinach. With an upright plant habit, it offers good yield potential between seasons. SV3580VC is an ideal variety for both bunching and baby leaf markets.

### FEATURES

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**Vigour Scale: (1–10)**

6

**Leaf shape:**

Oriental

**Smoothness:**

Smooth

**Leaf colour:**

Dark green

**Resistance:**

HR Pe:1–13,15,16,18

**Usage:**

Baby leaf and bunching

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## PALAOS

Palaos is a dark green spinach suitable for fresh market; its shiny, semi-savoy, round shaped leaves have excellent uniformity. Very adaptable variety that is suitable for Spring, Autumn and mild winter period.

### FEATURES

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**Vigour Scale: (1–10)**

7

**Leaf shape:**

Round to oval

**Smoothness:**

Semi-savoy

**Leaf colour:**

Dark green

**Resistance:**

HR Pe:1–10,15  
IR Cd/Cv

**Usage:**

Baby leaf

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# SPINACH



**JAVA**

Java is adaptable to mid-autumn, winter and early spring sowing. It has mid-light green leaves and upright plant growth. Java has smooth, oval-shaped leaves and a High Resistance to Downy mildew.

## FEATURES

**Vigour Scale: (1-10)**  
7

**Leaf shape:**  
Oval to slightly pointed

**Smoothness:**  
Smooth to semi-savoy

**Leaf colour:**  
Mid-light green

**Resistance:**  
HR Pe:1-15,17

**Usage:**  
Baby leaf



**SVVB3719**

SVVB3719 is well adapted to winter in Queensland and the shoulder season in southern parts of Australia. It's a smooth, mid-light green spinach that is best suited for baby leaf.

## FEATURES

**Vigour Scale: (1-10)**  
7

**Leaf shape:**  
Oval

**Smoothness:**  
Smooth

**Leaf colour:**  
Medium green

**Resistance:**  
HR Pe:1-11,13,15

**Usage:**  
Baby leaf



**RANGITOTO**

With a round to oval shape, Rangitoto has thick dark green and shiny leaves, adding extra volume in pre-pack, Savoy to semi-savoy texture. Erect habit and great uniformity makes this variety easy to harvest.

## FEATURES

**Vigour Scale: (1-10)**  
7

**Leaf shape:**  
Round to oval

**Smoothness:**  
Semi-savoy

**Leaf colour:**  
Medium dark green

**Resistance:**  
HR Pe:1-16,19

**Usage:**  
Baby leaf

# SPINACH

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**SV1846VC**

SV1846VC is a dark green spinach with increased yield potential. This shoulder variety produces uniform leaves that are suitable for both baby and bunching lines.



**RS 06683549**

RS 06683549 is a fast maturing, easy harvest winter variety. It is quick to reach maturity under cold conditions and is suitable for both the bunching and baby leaf markets.



**RS 06661470**

Vigorous and fast growing, RS 06661470 is a baby leaf that's best suited for winter. It's a dark green spinach with round and semi-savoy leaves.

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## FEATURES

**Vigour Scale: (1–10)**

8

**Leaf shape:**

Oval to slightly pointed

**Smoothness:**

Smooth

**Leaf colour:**

Dark green

**Resistance:**

HR Pe:1–14,19

**Usage:**

Baby leaf and bunching

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## FEATURES

**Vigour Scale: (1–10)**

8

**Leaf shape:**

Oriental

**Smoothness:**

Smooth

**Leaf colour:**

Dark green

**Resistance:**

HR Pe:1–11,13,15,16,18

**Usage:**

Baby leaf and bunching

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## FEATURES

**Vigour Scale: (1–10)**

8

**Leaf shape:**

Round

**Smoothness:**

Semi-savoy

**Leaf colour:**

Dark green

**Resistance:**

HR Pe:1–10,15  
IR Cd/Cv/Sb

**Usage:**

Baby leaf

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## SPINACH

**LATEST**



### MOTUTAPU

Motutapu is smooth to slightly savoy and shiny medium dark leaf spinach. Fast growing with very erect habit. Oval to slightly pointy shape, medium thickness. Excellent leaf shape and size uniformity. Suitable for cold transition harvest time slot (late Autumn & Early Winter/Late Winter and Early Spring harvest).

#### FEATURES

**Vigour Scale: (1–10)**  
8

**Leaf shape:**  
Oval to slightly pointy

**Smoothness:**  
Smooth to slightly savoy

**Leaf colour:**  
Medium dark green

**Resistance:**  
HR Pe:1–16,19

**Usage:**  
Baby leaf

**LATEST**



### UPOLU

Upolu is very erect with oval to slightly pointy leaf shape, medium green with excellent uniformity, leaves are medium thick and smooth to slightly savoy in texture. Suitable for cold climate.

#### FEATURES

**Vigour Scale: (1–10)**  
8

**Leaf shape:**  
Oval to pointy

**Smoothness:**  
Smooth

**Leaf colour:**  
Medium green

**Resistance:**  
HR Pe:1–16,19

**Usage:**  
Baby Leaf



### NIGHTHAWK

Nighthawk is a semi-savoy dark green spinach with an upright habit. It has excellent yield potential and is well suited for winter.

#### FEATURES

**Vigour Scale: (1–10)**  
10

**Leaf shape:**  
Oval to slightly pointed

**Smoothness:**  
Semi-savoy

**Leaf colour:**  
Medium green

**Resistance:**  
HR Pe:1–7,9,11,13,15,16,18

**Usage:**  
Baby leaf

## UNDERSTANDING VIGOUR RATINGS:

Vigour is the speed at which the variety emerges and matures in the field. Seminis' vigour scale is based on a range of 1 – 10, with 1 being low vigour and 10 being highly vigorous. But what does this mean for your planting decisions?

<b>A VIGOUR RATING OF 1 – 3</b>	Varieties with a vigour rating of between 1 and 3 are less vigorous. These varieties are suitable for summer growing windows. The slower maturity means that the variety will develop a leaf thickness that is acceptable to the market and will incur less bruising during processing.
<b>A VIGOUR RATING OF 3 – 7</b>	Varieties with a vigour rating of between 3 and 7 are moderately vigorous. These varieties are suitable for transition growing windows. Moderate vigour means the varieties will emerge and develop consistently over the maturation period producing the correct leaf thickness and plant habit required in the transitional season.
<b>A VIGOUR RATING OF 7 – 10</b>	Varieties with a vigour rating of between 7 and 10 are very vigorous. These varieties are suitable for winter growing windows. Highly vigorous varieties means they will generate quickly, which is optimal for cold conditions where speed to harvest is important for all growers.

## SPINACH GROWING CALENDAR

PRODUCT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
<b>WESTERN AUSTRALIA</b>												
SV2146VB												
SV2157VB												
KONA												
SV3580VC												
SVVB3719												
RANGITOTO												
RS 06683549												
RS 06661470												
MOTUTAPU												
UPOLU												

# SPINACH GROWING CALENDAR

PRODUCT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
<b>SOUTH EAST QUEENSLAND</b>												
MAGNETIC												
SV2146VB												
SV2157VB												
KONA												
SV3580VC												
PALAO												
JAVA												
SVVB3719												
RANGITOTO												
SV1846VC												
RS 06683549												
MOTUTAPU												
UPOLU												
NIGHTHAWK												
<b>SOUTHERN AUSTRALIA (SA, VIC, TAS, NSW)</b>												
MAGNETIC												
SV2146VB												
SV2157VB												
KONA												
SV3580VC												
PALAO												
JAVA												
SVVB3719												
RANGITOTO												
SV1846VC												
RS 06683549												
RS 06661470												
MOTUTAPU												
UPOLU												
NIGHTHAWK												

## QUICK REFERENCE: SPINACH DISEASE RESISTANCE GUIDE

VARIETIES	TYPE	PACKAGE	SEASON
<b>MAGNETIC</b>	Smooth to semi-savoy	HR Pe:1-15,17	Summer
<b>SV2146VB</b>	Semi-savoy	HR Pe:1-13,15,16,18	Summer
<b>SV2157VB</b>	Semi-savoy	HR Pe:1-13,15,16,18	Summer
<b>KONA</b>	Savoy to semi-savoy	HR Pe: 1-15, 17	Summer
<b>SV3580VC</b>	Smooth	HR Pe:1-13,15,16,18	Shoulder
<b>PALAOS</b>	Semi-savoy	HR Pe:1-10,15 IR Cd/Cv	Shoulder
<b>JAVA</b>	Smooth to semi-savoy	HR Pe:1-15,17	Shoulder/Winter
<b>SVVB3719</b>	Smooth	HR Pe:1-11,13,15	Winter
<b>RANGITOTO</b>	Semi-savoy	HR Pe:1-16,19	Shoulder
<b>SV1846VC</b>	Smooth	HR Pe:1-14,19	Shoulder
<b>RS 06683549</b>	Smooth	HR Pe:1-11,13,15,16,18	Autumn
<b>RS 06661470</b>	Semi-savoy	HR Pe:1-10,15 IR Cd/Cv/Sb	Winter
<b>MOTUTAPU</b>	Smooth to slightly-savoy	HR Pe:1-16,19	Shoulder
<b>UPOLU</b>	Smooth	HR Pe:1-16,19	Winter
<b>NIGHTHAWK</b>	Semi-savoy	HR Pe:1-7,9,11,13,15,16, 18	Winter

## RESISTANCE CODES

CODE	SCIENTIFIC NAME	ENGLISH NAME
<b>SPINACH</b>		
<b>Cd</b>	<i>Colletotrichum dematium</i>	Anthraxnose
<b>CMV</b>		Cucumber mosaic virus
<b>Cv</b>	<i>Cladosporium variable</i>	Cladosporium leaf spot
<b>Fo</b>	<i>Fusarium oxysporum</i>	
<b>Pe(ex.Pfs)</b>	<i>Peronospora farinosa f. sp. spinaciae</i>	Downy mildew
<b>Sb</b>	<i>Stemphylium botryosum</i>	Stemphylium leaf spot

## VARIETY SUMMARY

VARIETIES	VIGOUR SCALE: 1 = LOW 10 = HIGH	LEAF SHAPE	SMOOTHNESS	LEAF COLOUR	RESISTANCE	USAGE
<b>MAGNETIC</b>	3	Oval to slightly pointed	Smooth to semi-savoy	Mid-light green	HR Pe:1–15,17	Baby leaf
	Magnetic is a spinach variety adaptable to summer sowing.					
<b>SV2146VB</b>	3	Oval	Semi-savoy	Dark green	HR Pe:1–13,15,16,18	Baby leaf
	SV2146VB has round, semi-savoy, dark green leaves with a broad planting window and heat tolerance.					
<b>SV2157VB</b>	3	Oval	Semi-savoy	Dark green	HR Pe:1–13,15,16,18	Baby leaf
	SV2157VB has an excellent amount of thickness with uniformity in leaf size and field-holding ability.					
<b>KONA</b>	3	Round to oval	Savoy to semi-savoy	Medium dark green	HR Pe: 1–15,17	Baby leaf
	Kona is savoy to semi-savoy with medium dark green colour, round to oval in shape, semi erect plant habit, leaves are thick and very uniform. High yield potential most suited for warmer time slot.					
<b>SV3580VC</b>	6	Oriental	Smooth	Dark green	HR Pe:1–13,15,16,18	Baby leaf and bunching
	SV3580VC is a reliable and versatile, dark green smooth leaf spinach with an upright plant habit.					
<b>PALAO</b>	7	Round to oval	Semi-savoy	Dark green	HR Pe:1–10,15 IR Cd/Cv	Fresh baby leaf
	Palao is a dark green spinach suitable for fresh market, its shiny, semi-savoy, round shaped leaves have excellent uniformity. Very adaptable variety that is suitable for Spring, Autumn and mild winter period.					
<b>JAVA</b>	7	Oval to slightly pointed	Smooth to semi-savoy	Mid-light green	HR Pe:1–15,17	Baby leaf
	Java is a spinach variety adaptable to mid-autumn, winter and early spring sowing.					
<b>SVVB3719</b>	7	Oval	Smooth	Medium green	HR Pe:1–11,13,15	Baby leaf
	SVVB3719 is a smooth, mid-light green, early spinach. This variety is well adapted to winter in Queensland and the shoulder season in southern parts of Australia.					
<b>RANGITOTO</b>	7	Round to oval	Semi-savoy	Medium dark green	HR Pe:1–16,19	Baby leaf
	With a round to oval shape, Rangitoto has thick dark green and shiny leaves, adding extra volume in pre-pack, Savoy to semi-savoy texture. Erect habit and great uniformity makes this variety easy to harvest.					
<b>SV1846VC</b>	8	Oval to slightly pointed	Smooth	Dark green	HR Pe:1–14,19	Baby leaf and bunching
	SV1846VC is a thick, dark green spinach with increased potential.					
<b>RS 06683549</b>	8	Oriental	Smooth	Dark green	HR Pe:1–11,13,15,16,18	Baby leaf and bunching
	RS 06683549 is a fast maturing, easy harvest winter variety.					
<b>RS 06661470</b>	8	Round	Semi-savoy	Dark green	HR Pe:1–10,15 IR Cd/Cv/Sb	Baby leaf
	RS 06661470's leaves are dark green, round-shaped and semi-savoy.					

## VARIETY SUMMARY cont.

VARIETIES	VIGOUR SCALE: 1 = LOW 10 = HIGH	LEAF SHAPE	SMOOTHNESS	LEAF COLOUR	RESISTANCE	USAGE
<b>MOTUTAPU</b>	8	Oval to slightly pointy	Smooth to slightly savoy	Medium dark green	HR Pe:1-16,19	Baby leaf
	Motutapu is smooth to slightly savoy and shiny medium dark leaf spinach. Fast growing with very erect habit. Oval to slightly pointy shape, medium thickness. Excellent leaf shape and size uniformity. Suitable for cold transition harvest time slot (late Autumn & Early Winter/Late Winter and Early Spring harvest).					
<b>UPOLU</b>	8	Oval to pointy	Smooth	Medium green	HR Pe:1-16,19	Baby leaf
	Upolu is very erect with oval to slightly pointy leaf shape, medium green with excellent uniformity, leaves are medium thick and smooth to slightly savoy in texture. Suitable for cold climate.					
<b>NIGHTHAWK</b>	10	Oval to slightly pointed	Semi-savoy	Medium green	HR Pe:1-7, 9,11,13,15,16,18	Baby leaf
	Nighthawk is a semi-savoy dark green spinach variety with an upright habit. It has excellent yield potential and is well suited for winter.					

## SEEDS COUNT AND PLANT DENSITY DATA

CROP	SEED COUNT PER GRAM	PLANT POPULATION PER HA (MK)	PLANT POPULATION PER ACRE (MK)
Spinach	40-150	7,000-10,000MK/Ha	2,830-4,050MK/Ha







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Individual results may vary, and performance may vary from location to location and from year to year. This result may not be an indicator of results you may obtain, as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible.