



Spinach

ADVANTAGE

PROGRAM PORTFOLIO

SAKATA[®]

Winning the Race!

As an international seed company, Sakata Seed recognizes spinach as an important global crop. The demand for spinach has increased over the years due to the convenience and wide array of baby leaf packaging and products, including clam shells, bags and spring mixes. This is in addition to already robust bunch, clip and frozen spinach markets.

A major concern for the spinach industry is the proliferation of downy mildew (*Peronospora farinosa* f. sp. *spinaciae* (= *P. effusa*)) races. A new race of downy mildew has been identified nearly every year since 2000. Resistance to downy mildew is important to the entire spinach industry from seed companies to growers to distributors, and even to consumers.

Sakata is dedicated to breeding for resistance to downy mildew. We work closely with leading spinach pathologists at the University of Arkansas, The International Working Group *Peronospora*, and key growers and distributors around the globe. We test our commercial and developing spinach varieties to all new races.

In 2016 UA201519B was named race 16 by The International Working Group *Peronospora*. We have tested our commercial spinach varieties for resistance. Currently our main baby leaf varieties C2-606, Seaside, Riverside, Lakeside, and Oceanside have resistance to race 16. Along with three of our processing spinach lines, and three of our oriental spinach lines.



Mature

Persius

Persius is an excellent yielding processing spinach variety. It has a moderate growth rate and a slightly lobed, smooth leaf shape. Persius has a semi-upright plant habit and moderate bolt tolerance. The preferred growing window for this variety is fall or early winter. Persius offers a combined disease package for downy mildew and white rust.



Mature

Olympia

Olympia is a moderate growing, processing variety. It has large, smooth, elongated oval, medium green leaves. It is a bolt tolerant variety with a preferred growing window that is early spring or late summer. Olympia offers high yields and multi cuts for processing growers due to its bolt tolerance and large leaves. In addition,



Baby Leaf

C2-606

C2-606 is a high yielding, smooth, dark green baby leaf variety. It has uniform spade shaped leaves. C2-606 has an upright plant habit and is very bolt tolerant. This variety is a slower growing variety that is well suited for warmer planting slots. *Sales restrictions apply.*



Baby Leaf

Riverside

Riverside is a very dark green, smooth, spade-shaped baby leaf variety. It has a moderate growth rate and an upright plant habit. It is a perfect choice for west coast baby leaf growers who are looking for a premium quality product. In addition, Riverside has downy mildew resistance for growers who require a premium disease package.



Baby Leaf

Seaside

Seaside is a very uniform baby leaf variety. It has a moderate growth rate and an upright plant habit. Seaside has a nice, smooth, thick, very dark green, spade-shaped leaf making it a perfect choice for baby leaf growers. Seaside also has downy mildew resistance for growers who require a premium disease package.



Baby Leaf

Oceanside

Oceanside is a slow – moderate growing dark green spinach variety. It has nice thick leaves that are upright in plant habit. Oceanside has uniform smooth round /oval leaves. Oceanside is a versatile variety it can be used for baby leaf, bunch or clip.



Baby Leaf

Lakeside

Lakeside has uniform thick dark green smooth leaves. It has a round to oval leaf shape with an upright plant habit that makes it easy to harvest. It is a very versatile variety it can be used for baby leaf, bunch or clip.

SPINACH AT-A-GLANCE

Variety	Type	Days to Maturity from Direct Seed*	Plant Type / Leaf Shape	Leaf Color	Bolting Resistance	Disease Resistance	Uses & Remarks
C2-606	Baby Leaf	20-25	Upright / Smooth, spade	Dark green	Excellent	HR: Pfs: 1-9, 11-16	This variety is a slower growing variety that is well suited for warmer planting slots. <i>Sales restrictions apply.</i>
Edna	Baby Leaf	20-25	Semi Upright / Smooth, elongated	Dark green	Moderate	HR: Pfs: 1-10	Edna also has downy mildew resistance that make it adapted for east coast or conventional west coast baby leaf growers.
Lakeside	Baby Leaf	25-30	Erect / Smooth, round, oval	Dark green	High, moderate	HR: Pfs: 1-11, 15-16 IR: Pfs: 12, 14	Very versatile variety that can be used for baby leaf, bunch or clip.
Oceanside	Baby Leaf	25-30	Erect / Smooth, round, oval	Dark green	Low	HR: Pfs: 1-9, 11, 13, 15-16 IR: Pfs: 12, 14	Oceanside is a versatile variety that can be used for baby leaf, bunch or clip.
Riverside	Baby Leaf / Mature	25-30 / 35-40	Smooth, upright / Spade	Very dark green	Moderate	HR: Pfs: 1-11, 15-16 IR: 12, 14	A very dark green, spade shape baby leaf variety.
Seaside	Baby Leaf / Mature	25-30 / 35-40	Smooth, upright / Spade	Dark green	Moderate	HR: Pfs: 1-11, 15-16 IR: 12, 14	A slow growing, smooth dark baby leaf variety.
Imperial Star	Mature	30-37	Smooth, upright / Asian	Medium dark green	Low	HR: Pfs: 1-7, 9, 11, 13, 16	Stems are less susceptible to damage due to bunching.
No. 5633	Mature	45-50	Upright / Slightly lobed, smooth	Green	High	HR: Pfs: 1-5, 8-9, 11-12,	No. 5633 has a moderate bolt tolerance and downy mildew resistance. Its uses include fresh market and processing.
Olympia	Mature	45-50	Smooth, semi-upright / Oval	Green	High	HR: Pfs 1-3, 5, 8-9, 11, 12, 14, 16	A bolt tolerant variety for spring and summer production.
Persius	Mature	45-50	Semi Upright / Slightly lobed, smooth	Green	Moderate	HR: Pfs 1-3, 5, 8, 9, 11, 12, 14, 16, HR: Ao	Well suited for multi-cuts for processing markets.

Disease terminology: HR = High Resistance, IR = Intermediate Resistance. Disease code: Ao - White Rust, Pfs - Downy mildew.

* Days to Maturity are an approximation and may fluctuate due to varying planting times, location and conditions.

DISCLAIMER: Claims and other disclosed information are based on our observations and/or information from other sources. Crop performance depends on the interaction between the genetic potential of the seed, its physiological characteristics, the environment, including management, and other uncontrollable factors that may alter expected performance. Statements on the reaction of varieties to a specific pathogen, pest or stress are based on evaluation under defined conditions. These reactions can be affected by changes in environmental and biological factors, especially new pathogen races, pest biotypes or vectors of disease agents. Therefore, we give no warranty, express or implied, for crop performance relative to the information given; nor do we accept any liability for any loss, direct or consequential, that may arise from any cause. Read all seed package labeling carefully as it contains terms and conditions of sale.

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