

Innovation in Tomato and Pepper

John Schramski Market Development Representative Midwest



Tomato

/// Vegetables by Bayer

Seminis Plus Series Tomatoes

Classic Series

- Better Boy
- Big Beef
- Celebrity
- Lemon Boy

Improved Flavor

Disease Resistance

Plus Series

- Better Boy Plus
- Big Beef Plus
- Celebrity Plus
- Lemon Boy Plus



RE

Better Boy Plus (SVTH3452)

- •Higher brix, quality, and fruit setting than original Better boy
- •Robust disease package
- •Juicy fruit with unbeatable flavor
- •Large and firm fruits
- Low radial cracking
- •Healthy and vigorous plant
- •Highly adaptable

DISEASE RESISTANCE (HR) ToMV:0-2/Aal/FoI:1/For/SbI/SI/Ss/Va:1; (IR) TSWV:0/Ma/Mi/Mj





Avg. Brix	Shape	Avg. Weight	Segment	Ext. Color	Plant Type	Vigor	Maturity
6.5	Round	180-230 g	XL	Red	Indeterminate	Strong	80 Days

Key to Disease Resistance: Aal = Alternaria stem canker; Fol = Fusarium wilt; For = Fusarium crown and root rot; Ma/Mi/Mj = Southern root-knot nematode; Sbl/Sl/Ss = Gray leaf spot; ToMV = Tomato mosaic; TSWV = Tomato spotted wilt virus; Va/Vd = Verticillium wilt.

HR = High Resistance. IR = Intermediate Resistance. To find out more about disease resistance and the applicable levels of disease resistance, visit www.worldseed.org, and view the "Definition of the Terms Describing the Reaction of Plants to Pests for the Vegetable Industry" paper in the Vegetable Resources section.

Deven Orean and Comining are registered to demande of Deven Orean @2004 Deven Orean All rights recorded Company Confidential De Net Distribute

Big Beef Plus (SVTH3438)

- •Crimson gene provides deeper red internal gel
- •Larger fruit size than original Big Beef
- •Enhanced flavor
- •Refined fruit appearance and quality
- Improved disease package
- Highly adaptable

DISEASE RESISTANCE (HR) ToMV:0-2/ToTV/Aal/Fol:0,1/For/Sbl/Sl/Ss/Va:0/Vd:1





Avg. Brix	Shape	Avg. Weight	Segment	Ext. Color	Plant Type	Size	Maturity
5.4	Round	210-240 g	XXL	Red	Indeterminate	Beef	75 Days

Key to Disease Resistance: Aal = Alternaria stem canker; Fol = Fusarium wilt; For = Fusarium crown and root rot; Ma/Mi/Mj = Southern root-knot nematode; Sbl/Sl/Ss = Gray leaf spot; ToMV = Tomato mosaic; TSWV = Tomato spotted wilt virus; Va/Vd = Verticillium wilt.

HR = High Resistance. IR = Intermediate Resistance. To find out more about disease resistance and the applicable levels of disease resistance, visit www.worldseed.org, and view the "Definition of the Terms Describing the Reaction of Plants to Pests for the Vegetable Industry" paper in the Vegetable Resources section.

Deven Create and Comparing are resistanted to demande of Deven Create 20001 Deven Create All rights reserved. Compare Confidential De Nat Distribute

Lemon Boy Plus (SVTH3445)

Seminis

•Unique yellow color

- •Sweet, tangy flavor
- •Higher average degrees brix than original Lemon Boy
- •Firm fruit with less radial cracking and better shelf life
- •Uniform fruit shape and size
- Improved disease package
- •Quality fruit for any dish and salad



DISEASE RESISTANCE (HR) ToMV:0-2/ToTV/Aal/Ff:B,D/FoI:1-3/For/SbI/SI/Ss/Va:1/Vd:1

Avg. Brix	Shape	Avg. Weight	Segment	Ext. Color	Plant Type	Maturity
6.6	Round	160-200 g	XL	Yellow	Indeterminate	75 Days

Key to Disease Resistance: Aal = Alternaria stem canker; Fol = Fusarium wilt; For = Fusarium crown and root rot; Ma/Mi/Mj = Southern root-knot nematode; Sbl/Sl/Ss = Gray leaf spot; ToMV = Tomato mosaic; TSWV = Tomato spotted wilt virus; Va/Vd = Verticillium wilt.

HR = High Resistance. IR = Intermediate Resistance. To find out more about disease resistance and the applicable levels of disease resistance, visit www.worldseed.org, and view the "Definition of the Terms Describing the Reaction of Plants to Pests for the Vegetable Industry" paper in the Vegetable Resources section.

Deven Orene and Comining are registered to demonte of Power Orene @2004 Power Orene All rights recorded Company Confidential De Net Distribute

Celebrity Plus (SVTD4081)



- •Retains many characteristics of Celebrity
- •Added value of Tomato Spotted Wilt Virus resistance
- •Higher average degrees brix than original Celebrity
- •Smooth fruit with outstanding flavor
- Improved shape and size uniformity
- •Larger fruit size
- •Widely adaptable

DISEASE RESISTANCE (HR) ToMV:0-2/Aal/FoI:1,2/SbI/SI/Ss/Va:1/Vd:1; (IR) TSWV:0/Ma/Mi/Mj



Avg. Brix	Shape	Avg. Weight	Segment	Ext. Color	Plant Type	Vigor	Maturity
5.4	Flat (Deep Oblate)	200-240 g	XL	Red	Semi-Determinate	Moderate	80 Days

Key to Disease Resistance: Aal = Alternaria stem canker; Fol = Fusarium wilt; For = Fusarium crown and root rot; Ma/Mi/Mj = Southern root-knot nematode; Sbl/Sl/Ss = Gray leaf spot; ToMV = Tomato mosaic; TSWV = Tomato spotted wilt virus; Va/Vd = Verticillium wilt.

HR = High Resistance. IR = Intermediate Resistance. To find out more about disease resistance and the applicable levels of disease resistance, visit www.worldseed.org, and view the "Definition of the Terms Describing the Reaction of Plants to Pests for the Vegetable Industry" paper in the Vegetable Resources section.

Deven Create and Comparing are registered to demente of Deven Create @2004 Deven Create All sights research Company Confidential De Net Distribute



R

And the tomato adventure continues.....

Purple Boy

- •Unique, heirloom-like hybrid
- •Beautiful purple color
- •Rich, traditional flavor reminiscent of heirloom types
- Improved vigor and disease resistance
- •Strong plant characteristics
- •Highly adaptable

DISEASE RESISTANCE (HR) ToMV:0-2/FoI:1/For/Va:1/Vd:1; (IR) Ma/Mi/Mj







Size	Shape	Avg. Weight	Segment	Ext. Color	Plant Type	Vigor	Maturity
Beef	Round	120-230 g	XL	Purple	Semi-Indeterminate	Moderate	72 Days

Key to Disease Resistance: Aal = Alternaria stem canker; Fol = Fusarium wilt; For = Fusarium crown and root rot; Ma/Mi/Mj = Southern root-knot nematode; Sbl/Sl/Ss = Gray leaf spot; ToMV = Tomato mosaic; TSWV = Tomato spotted wilt virus; Va/Vd = Verticillium wilt.

HR = High Resistance. IR = Intermediate Resistance. To find out more about disease resistance and the applicable levels of disease resistance, visit www.worldseed.org, and view the "Definition of the Terms Describing the Reaction of Plants to Pests for the Vegetable Industry" paper in the Vegetable Resources section.

Deven Green and Company Continued and another of Deven Green @2004 Deven Green All sinks another of Company Contidential De Nat Distribute

Pink Delicious (SVTG0347)



- •Giant heirloom-style tomato
- •Beautiful pink color
- •Heavenly flavor
- •High average fruit weight
- Low radial cracking
- •Good disease resistance package





DISEASE RESISTANCE (HR) ToMV:0-2/Sbl/Sl/Ss/Va:1/Vd:1

Size	Shape	Avg. Weight	Segment	Ext. Color	Plant Type	Vigor	Maturity
Beef	Flat (Deep Oblate)	250-300 g	XL	Pink	Indeterminate	Moderate	74 Days

Key to Disease Resistance: Aal = Alternaria stem canker; Fol = Fusarium wilt; For = Fusarium crown and root rot; Ma/Mi/Mj = Southern root-knot nematode; Sbl/Sl/Ss = Gray leaf spot; ToMV = Tomato mosaic; TSWV = Tomato spotted wilt virus; Va/Vd = Verticillium wilt.

HR = High Resistance. IR = Intermediate Resistance. To find out more about disease resistance and the applicable levels of disease resistance, visit www.worldseed.org, and view the "Definition of the Terms Describing the Reaction of Plants to Pests for the Vegetable Industry" paper in the Vegetable Resources section.

un Deues Green and Company Confidential De Not Distribute



Pepper

/// Vegetables by Bayer

Current Pepper Portfolio



Bell Peppers

- •Tarpon
- Sailfish
- Aristotle
- •PS 09941819
- •PS 09979325
- •Turnpike
- •Red Knight
- •Playmaker
- •SV3255PB
- •Antebellum
- •SV3964PB
- •SVPB8415

Specialty Peppers

- •Panuco Jalapeno
- Tzotil Jalapeno
- •SV7017HJ Jalapeno
- •SV3198HJ Jalapeno
- •Fury Hungarian Yellow Wax
- •Sopron Banana
- •Time Bomb Hot Cherry
- •Mesilla Cayenne
- •Roulette Habanero
- •Inferno Hot Wax
- •Super Chili Chili
- Spitfire Anaheim

Key to Disease Resistance: Tm = Tobamovirus; Xcv = Bacterial leaf spot. X10R® technology provides intermediate resistance to bacterial leaf spot races 0-10.

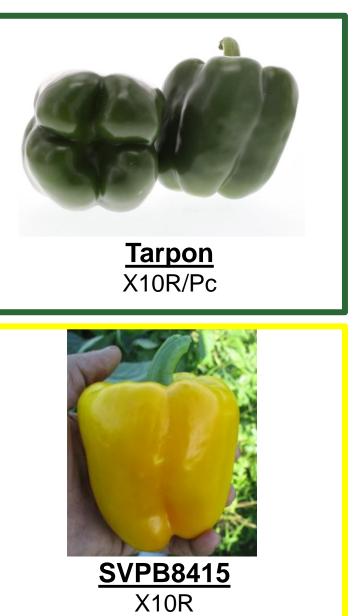
Bayer, Bayer Cross, Seminis® and X10R® are registered trademarks of Bayer Group. ©2021 Bayer Group. All rights reserved. Company Confidential – Do Not Distribute.

HR = High Resistance. IR = Intermediate Resistance. To find out more about disease resistance and the applicable levels of disease resistance, visit www.worldseed.org, and view the "Definition of the Terms Describing the Reaction of Plants to Pests for the Vegetable Industry" paper in the Vegetable Resources section.

Colored Bell Peppers



RF





Coming soon...

Mini-Pointed Pepper, Orange: SVPS0953

First X10R® orange mini-pointed pepper for the Eastern U.S. open field with early maturity, good shape, size uniformity, excellent color, and preferred eating quality.

•X10R® resistance

• Early maturity

- •Continuous fruit set
- Protect yield under disease conditions
- Improved disease package for better quality and longevity
- •Early market entry
- •Good fruit size and shape uniformity
- •Improved consumer preference





DISEASE RESISTANCE (HR) Tm:0; (IR) Xcv:0-10

Key to Disease Resistance: Tm = Tobamovirus; Xcv = Bacterial leaf spot. X10R® technology provides intermediate resistance to bacterial leaf spot races 0-10.

HR = High Resistance. IR = Intermediate Resistance. To find out more about disease resistance and the applicable levels of disease resistance, visit www.worldseed.org, and view the "Definition of the Terms Describing the Reaction of Plants to Pests for the Vegetable Industry" paper in the Vegetable Resources section.

Bayer, Bayer Cross, Seminis® and X10R® are registered trademarks of Bayer Group. ©2021 Bayer Group. All rights reserved. Company Confidential – Do Not Distribute.

Mini-Pointed Pepper, Red: SVPS0897



First X10R® red mini-pointed pepper for the Eastern U.S. open field. Vigorous plant with continuous fruit set, good fruit size, uniformity, and excellent yield potential.

- •X10R® resistance
- Vigorous plant
- •Continuous fruit set
- Protect yield under disease conditions
- Improved disease package for better quality and longevity

• Early harvest

- •Good fruit size, shape, and yield throughout the season
- •Similar to or better consumer preference



DISEASE RESISTANCE (HR) Tm:0; (IR) Xcv:0-10

Key to Disease Resistance: Tm = Tobamovirus; Xcv = Bacterial leaf spot. X10R® technology provides intermediate resistance to bacterial leaf spot races 0-10.

Bayer, Bayer Cross, Seminis® and X10R® are registered trademarks of Bayer Group. ©2021 Bayer Group. All rights reserved. Company Confidential – Do Not Distribute.

HR = High Resistance. IR = Intermediate Resistance. To find out more about disease resistance and the applicable levels of disease resistance, visit www.worldseed.org, and view the "Definition of the Terms Describing the Reaction of Plants to Pests for the Vegetable Industry" paper in the Vegetable Resources section.



Thank you.

https://www.vegetables.bayer.com

 \longrightarrow Resources \longrightarrow Agronomic Spotlights

Interested in trialing? Contact your local Seminis rep!



HM CLAUSE Tomatoes and Peppers

Great Lakes Expo







Agenda



- **1. Introductions**
- 2. HM.CLAUSE/Dealer Overview
- 3. Varieties
- 4. Questions/Comments
- 5. Thank you





Introductions





HM-CLAUSE | Presentation Title | February 2013 | 3

Your Northeast Fresh Market HM.Clause Sales Team

NORTHEAST USA & CANADA Regional Manager: John Molyet

MP: 419.902.0414 j.molyet@hmclause.com

GREAT LAKES & MIDWEST Technical Sales Rep: Ryan Kingma MP: 317.900.2955 ryan.kingma@hmclause.com



NORTHEAST USA & CANADA

Product Development Specialist: Steven Valdez MP: 717.405.4599 Steven.valdez@hmclause.com

NEW ENGLAND & EASTERN CANADA

Technical Sales Rep: Michael Ferlito MP: 315.591.7504 Michael.Ferlito@hmclause.com

MID-ATLANTIC

Technical Sales Rep: Kristin Barrall MP: 302.381.3404 k.barrall@hmclause.com





HM.Clause and Dealer Overview





We are Global, we are local, we are HM.CLAUSE

We specialize in the breeding, production, and sales of vegetable seeds. From the world market to the farmer's market, we collaborate with our customers to deliver successful solutions for the agricultural challenges of today and produce the highest quality seeds for the future. Our global team of experts and state-of-the-art research facilities enable us to work side-by-side with growers to provide the most regionally relevant and reliable vegetable seeds available.





Company History

HM.CLAUSE is a business unit of Limagrain, an international cooperative agricultural group, specializing in field seeds, vegetable seeds and cereal products. With a team of 2,800 professionals in over 30 countries, we are dedicated to the sustainable solutions for the land, successful products for our customers, and intensive research and innovations for the future.

HM.CLAUSE was formed in 2008, combining our two commercial brands, HARRIS MORAN in the USA and CLAUSE in France. However, the company roots go back to 1785, with its founding organization, Tezier. Our brands represent the best of all worlds, combining know-how, expertise and resources to create an exceptional company, doing extraordinary work.

As a global company, each and every one of us is genuinely invested in our customers' success and the future of our industry. We work to demonstrate our values of teamwork, collaboration, transparency and accountability in every office, laboratory, facility, farm and field, in each and every region, every day of the year.



HM CLAUSE





Species Presentation







Harris Moran tomatoes are some of the best on the market. Start off the season with our tasty Primo Red and Red Deuce and move into the main-season with Red Mountain and Red Morning. Finish the growing season with the ever-reliable Mountain Fresh Plus. Round off your tomato operation with Pony Express and Davinci saladette.







HM • CLAUSE

Primo Red

- Some of the first fruit to market due to its very early maturity
- Very determinate vine
- Recognized for its flavor
- Responds well to higher nutrient management
- Harvest for the first couple weeks and then move on



PRIMO RED F1 (HMX 7838)

Fresh market, determinate, round

Very XLarge vine ripe tomato



FEATURES

PLANT COMPACT, EARLY MATURING WITH AN EXTENDED SET
 Fruit Shape
 Fruit Size
 Fruit Color

 Deep Globe
 Large - Extra Large
 Red

FRUIT QUITE SMOOTH, GLOBE, WITH GOOD COLOR	DISEASE RESISTANCE CHART (HR-High Resistance, IR-Intermediate Resistance)					
	HRAR	Common name	Abbreviation	Pathogen / Causal Agent		
EXCELLENT VINE RIPE TOMATO FOR EARLY PLANTING	HR	Verticilium wit	Vd:1 (EUR:0) Va:1 (EUR:0)	Verticillum albo-atrum, V. dahllae		
COMPACT VINE DOES WELL WITH HIGHER	HR	Fusarium wilt	Fol:1,2	Fusarium oxysporum f.sp.lycopersici		
FERTILIZER MANAGEMENT	HR	Tomato mosaic	TOMV	Tomato mosaic virus		
RESPONDS WELL TO HORMONE INDUCED FRUIT SETTING, CROWN FRUIT MAY SHOW SOME PRONOLINCED BLOGSOM FRUIS	IR	Tomato spotted wilt	TSWV:TO	Tomato spotted will virus		

HM.CLAUSE, Inc.

555 Codoni Ave, Modesto, CA 95357 USA | Tel: 209.579.7333 | Fax: 209.527.5312 | Web: www.hmclause.com

Maturity

Very Early



Data and disease ratings are an average of results from various test locations. It is not a prediction of tuture performance, but a summary of past results. Your performance will vary depending on the actual environment, pathogen strain and management conditions in your field. You must read and understand the HM-CLAUSE, inc. Limitation of Warranity and Liabitity fround at www.harrismoran.com) before using this product.



Red Deuce

- Second to mature in the early slot
- Large and XL fruit with good internal quality
- Perfect for sandwich slices or salad wedges
- Good to use in a low-tech environment
 - Long harvest window in high tunnels



RED DEUCE F1 (HMX 0821) Fresh Market.

Determinate, Round

Second early vine ripe with exceptional quality



FEATURES

MEDIUM VIGOR PLANT WITH GOOD FOLIAGE COVER

EARLY, HIGH YIELDING VARIETY FOR VINE RIPE HARVEST

X-LARGE UNIFORM SMOOTH FRUIT WITH VERY GOOD QUALITY

R/IR	Common name	Abbreviation	Pathogen / Causal Agent
HR	Verticilitum witt race 1	Vd:1 (EUR:0) Va:1 (EUR:0)	Verticillium dahilae r.1
HR	Fusarium wilt race 1,2	Fol: 1,2	Fusarlum oxysporum f.sp. lycopersici r.1,2
HR	Tomato Mosaic Virus	TOMV	Tornato Mosaic Virus
HR	Alternaria Stem Canker	Аа	Alternaria alternata f. sp. lycopersici

HM.CLAUSE, Inc.

555 Codoni Ave, Modesto, CA 95357 USA | Tel: 209.579.7333 | Fax: 209.527.5312 | Web: www.hmclause.com

HM CLAUSE

Red

Data and disease ratings are an average of results from various test locations. It is not a prediction of future performance, but a summary of past results. Your performance will vary depending on the actual environment, pathogen strain and management conditions in your field. You must read and understand the HM.CLAUSE, Inc. Limitation of Warranty and Liability (found at www.harrismoran.com) before using this product.



Red Mountain

- High quality fruit for the main season.
- Determinate plant with a compact habit for ease of harvest
- High yields and easy picking
- Good disease package



HM.CLAUSE, Inc.

555 Codoni Ave, Modesto, CA 95357 USA | Tel: 209.579.7333 | Fax: 209.527.5312 | Web: www.hmclause.com

HM CLAUSE

Data and disease ratings are an average of results from various test icoations. It is not a prediction of future performance, but a summary of past results. Your performance will vary depending on the actual environment, pathogen strain and management conditions in your field. You must read and understand the Harris Moran Limitation of Warranty and Liability (found at www.harrismoran.com) before using this product.



Red Morning

- Main season variety
- Proven field performance and high demand
- One of the best yielders in our lineup
- Large, smooth, high quality fruit
- Medium size determinate plant with good cover



TIGH	DISEASE	RESISTANCE (HR-Hig	h Resistance, IR-Inte	armediate Reistance, S=Susceptible)
LARGE-SIZE FRUIT	Rating	Common Name	Abbreviation	Pathogen/Causal Agent
MEDIUM-SIZE STRONG PLANT	HR	Fusarium wilt	Fol: 1,2	Fusarium oxysporum f. sp. lycopersici races 1,2,3
RESISTANCE TO TSWV	HR	Tomato mosaic	TOMV	Tomato Mosaic Virus
	IR	Spotted Wilt	TSWV	Tornato Spotted Wilt Virus
	HR	Verticillum Wit	Va	Verticillum albo-atrom
	HR	Verticillum Wilt	Vd	Verticilium dahila race 1

HARRIS MORAN

PO. box 4938, Modesto, CA 95352, USA | Bus: 209 579 7333 | Fax: 209 527 5312 | Web: www.harrismoran.com



Fruft Color

Deep Red

Data and disease ratings are an average of results from various test locations. It is not a prediction of huture performance, but a summary of past results. Your performance will vary depending on the actual environment, pathogen strain and management conditions in your field. You must read and understand the Harris Moran Limitation of Warranty and Lability forum at www.harmsona.com before using this product.

Saladette Tomato

Pony Express

- Our #1 variety used in saladette production
- Dependable variety for high yields and very good quality.
- Early maturing main season
- Use for fresh cooking or home canning



PONY EXPRESS F1 (HMX 4790) Fresh market, determinate, saladette

A perfect combination of earliness & high vield



FE	AT	UR	ES

VERY EARLY COMPACT PLANT, SUITABLE FOR GROUND AND STACKED PRODUCTION

VERY CONCENTRATED HEAVY YIELD FRUIT	DISEASE RESISTANCE CHART (HR-High Rusistance, IR-Intermediate Resistance)				
WITH EXCELLENT COLOR AND FIRMNESS	HRAR	Common name	Abbreviation	Pathogen / Causal Age	
HIGH PACKOUT OF LARGE TO XLARGE FRUIT	HR	Tomato mosaic	TOMV	Tornato mosaic virus	
WIDELY ADAPTABLE TO SEVERAL GROWING	HR	Verticilitum witt	Vd:1 (EUR:0) Va:1 (EUR:0)	Verticililum dahilae	
REGIONS	HR	Fusarium wilt	Fol:1,2,3	Fusarium oxysporum f.	
INTERMEDIATE RESISTANCE TO FUSARIUM	up	Dectorial speck	Det		

Common name	Abbreviation	Pathogen / Causal Agent
Tomato mosaic	ToMV	Tomato mosaic virus
Verticillium witt	Vd:1 (EUR:0) Va:1 (EUR:0)	Verticillium dahilae
Fusarium witt	Fol:1,2,3	Fusarium oxysporum f.sp. lycopersici
Bacterial speck	Pst	Pseudomonas syringae pv. tomato
Port Knot	Ma MI MI	Meloidogyne arenaria, M. incognita & M.

(avanica

Elongated

Large

Ma, MI, MI

HM.CLAUSE, Inc.

RACE 3

555 Codoni Ave, Modesto, CA 95357 USA | Tel: 209.579.7333 | Fax: 209.527.5312 | Web: www.hmclause.com

Very early

HR

IR

HM CLAUSE

Dark Red

Data and disease ratings are an average of results from various test locations. It is not a prediction of future performance, but a summary of past results. Your performance will vary depending on the actual environment, pathogen strain and management conditions in your field. You must read and understand the HM.CLAUSE, Inc. Limitation of Warranty and Liability (found at www.harrismoran.com) before using this product.

Root Knot

Compact

NEW Saladette Tomato

Davinci

- Extensive disease package for the main season
- Crimson gene for fruit color and quality
- Good for fresh or home canning





Technical data and disease resistance ratings shown are averages of results from observations at various locations, under different conditions, and laboratory tests. It is not a prediction of future performance but a summary of past results. Seed performance, yield, and crop results will vary depending on geographic areas, environment conditions and preserve, field growing and management practices, and the presence of pests or pathogens. New, unknown, and/or atypical pathogen strains may overcome the resistance of the seed. Acceptance of the HM/CL4USE to ratio of Warranty and Liability and Use Restriction, included with our seed packages or available at norwwh/mdauses.com, is a condition of use of all our products.

HM • CLAUSE

Grape Tomato

Smarty

- Uniform fruit
- Sweet snacking tomato with good flavor
- Good shelf life





Highly uniform, sweet grape

Indeterminate Tomato, Cherry /Cocktail



FEATURES	Relativ	e Maturity	Fruit Shape	Fruit Size	Fruit Color
PLANT VERY VIGOROUS WITH SHORT INTERNODES	Medium	1	Mini plum	15-20 g	Deep red
FRUIT HIGHLY UNIFORM IN SHAPE AND SIZE	DISEA		NCE CHART (HR=H	gh Resistance, IR=I	ntermediate
FRUIT FIRM WITH LONG SHELF	HRIR	Common Name	Abbreviation	Pathogen / Causal	Agent
LIFE	HR	HR Verticillium wilt	Va:1 (EUR:0), Vd:1 (EUR:0)	Verticillium albo-atrum race 1, Verticillium	
EXCELLENT, SWEET TASTE				dahilae race 1	
	HR	Fusarium wilt	Fol:1 (EU Fol:0)	Fusarium oxysporum	n f. sp. lycopersici race 1

HM.Clause, Inc.

260 Cousteau Place, Suite 210, Davis, CA 95618 | 1-800-320-4672 | www.hmclause.com

HM CLAUSE

Data and Disease Ratings are an everage of results from various test locations. It is not a prediction of future performance, but a summary of past results. Your performance will vary depending on the actual environment, pathogen strain and management conditions in your field. The HM.CIAUSE, Inc. Limitation of Warranty and Liability and Use Restriction is a condition of purchase of all Harris Moran and HM.CIAUSE, section of the Limitation of Warranty and Liability and Use Restriction, please visit the HM.CIAUSE, inc. website bound at www.hmaisaus.com or call HM.CIAUSE, inc. for more information.

NEW Grape Tomato



Red Coral (HMX61G1772)

- Grape Tomato
- High yields
- Good Flavor
 - · Good blend of brix and acid
- Determinate plant
 - Grown on 4' stake
- Resists shattering



RED CORAL

An exciting new determinate grape tomato with high yield potential and traditional tomato taste.

Tomato, determinate grape

FEATURES

TRUE AND ORIGINAL TOMATO FLAVOR

DETERMINATE PLANT AND CONCENTRATED SET FOR EASE OF FIELD MANAGEMENT AND HARVEST

 COMPREHENSIVE DISEASE PACKAGE FOR THE OPEN FIELD ENVIRONMENT



Relative Maturity Early to mid-maturity		Fruit Shape	Fruit Color
		Grape	Vibrant red at maturity
DISEASE	RESISTANCES (HR -	HIGH RESISTANCE	IR - INTERMEDIATE RESISTANCE)
HR/IR	Common name	Abbreviation	Pathogen causal agent
HR	Fusarium wilt	Fol:1,2	Fusarium oxysporum f.sp. lycopersic
HR	Bacterial speci	Pst	Pseudomonas syningae pv. tomato
IR	Root-knot	Ма	Meloldogyne arenaria
IR	Root-knot	MI	Meloidogyne incognita
IR	Root-knot	мј	Meloldogyne javanica
IR	Spotted witt	TSWV:TO	Tomato spotted wilt virus
IR	Tornato yellow leaf curl virus	TYLCV	Tomato yellow leaf curl virus

HM.CLAUSE, Inc.

260 Cousteau Place, Suite 210, Davis, CA 95618 | 1-800-320-4672 | Web: www.hmclause.com

HM CLAUSE

Technical data and disease resistance ratings shown are averages of results from observations at various locations, under different conditions, and laboratory tests. It is not a prediction of future performance but a summary of part results. Seed performance, yield, and crop results will vary depending on geographic areas, environment conditions and pressure, field growing and management practices, and the presence of pests or pathogens. New, unknown, and/or atypical pathogen strains may overcome the resistance of the seed. Acceptance of the HMCLAUSE initiation of Warmenty and Lability and Use Restriction, included with our seed packages or available at tww.hmclause.com, is a condition of use of all our products.



Harris Moran peppers boasts high quality and high yields. Currier is one of the most popular varieties on the market when it comes to place pack. The addition of our new Captain marks the beginning of higher disease resistances for our program







HM•CLAUSE

Green Bell



Currier

- Fruit is very uniform and refined
- High quality for place pack
- Early yield
- Good disease package

CURRIER F1

Uniform, highyield pepper with an exceptional disease package



FEATURES	Maturity	Fruit shape	Fruits	lze	Fruit color		
EARLY AND HIGH COMMERCIAL	Early	Blocky	Large	- Extra large	Green to red		
YIELD	DISEASE RESISTANCE CHART (HR-High Resistance, IR-Intermediate Resistance, S-Susceptible)						
VERY CONSISTENT AND	HRAR	Common name	Abbreviation	Pathogen / Ca	iusal Agent		
SMOOTH AND GLOSSY DEEP GREEN COLOR	HR	Bacterial spot	Xcv 1,2,3	Xanthomonas	campestris pv. vesicatoria		
	HR	Tobacco mosaic	TMV	Tobacco mosa	alc virus		
	HR	Pepper mottle	PepMoV	Pepper mottle	virus		
GREENCOLOR	HR	Pepper yellow mosaic	PepYMV	Pepper yellow	mosalc virus		
NUMEROUS RESISTANCES	HR	Potato Y	PVY: 0, 1, 1-2	Potato Y virus			
	IR	Cucumber mosaic	CMV	Cucumber mo	saic virus		

HM.CLAUSE, Inc.

555 Codoni Ave, Modesto, CA 95357 USA | Tel: 209.579.7333 | Fax: 209.527.5312 | Web: www.hmclause.com



Data and disease ratings are an average of results from various test locations. It is not a prediction of future performance, but a summary of past results. Your performance will vary depending on the actual environment, pathogen strain and management conditions in your field. You must read and understand the HM.CLAUSE, Inc. Limitation of Warranty and Liability (found at www.harrismoran.com) before using this product.



Green Bell



Karisma

- L, XL, and jumbo fruit
- Full plant for good cover
- Extended fruit set
- Good disease package

KARISMA F1 Sweet, blocky, green to red High yield of attractive large to XL uniform pepper



FEATURES				
MEDIUM, ERECT, VIG PLANT	OROUS			

-	EXCELLENT LEAF COVER	
-	EXCELLENT LEAF COVER	

- FRUIT SMOOTH, GLOSSY UNIFORM, BLOCKY LARGE TO EXTRA LARGE
- HIGH YIELD, EXTENDED HARVEST

Common name	Abbreviation	Pathogen / Causal Agent
Tobacco Mosalc	TMV	Tobacco mosaic virus
Potato Y	Pvy: 0,1,1-2	Potato Y virus
Pepper Mottle	PepMoV	Pepper mottle virus
Pepper Yellow Mosaic	PepYMV	Pepper yeilow mosaic virus
Bacterial Spot	Xcv:1,2,3	Xanthomonas campestris pv. vesicatoria
Cucumber Mosaic	CMV	Cucumber mosaic virus

Green to red

HM.CLAUSE, Inc.

555 Codoni Ave, Modesto, CA 95357 USA | Tel: 209.579.7333 | Fax: 209.527.5312 | Web: www.hmclause.com

Medium

DISEAS

HR

HR

IR

1D

IR



Large to XLarge

Data and disease ratings are an average of results from various test locations. It is not a prediction of thure performance, but a summary of past results. Your performance will vary depending on the actual environment, pathogen strain and management conditions in your field. You must read and understand the HM.CLAUSE, inc. Limitation of Warranity and Liabitity found at www.harrismoran.com) before using this product.

Blocky



NEW Green Bell

Captain

- BLS 1-10 and phytopthora resistance
- Medium green fruit
- XL to jumbo
- Sturdy, mid-sized plants
- High yields
- Concentrated set





CAPTAIN F1

The leader in the new generation of sweet pepper from Harris Moran that demands attention

Sweet Pepper, Blocky

FEATURES

 OFFERS BACTERIAL LEAF SPOT RESISTANCE, RACE 1-10 WITH ADDED PHYTOPHTHORA RESISTANCE

ADAPTABLE PLANT FOR THE OPEN FIELD CONDITIONS

DARK GREEN MATURE PEPPERS OFFERING XL TO L SIZES



Relative Maturity	Fruit Shape	Size	Fruit color
Mid-maturity	Blocky	XL to L	Dark mature green
			TE DEDISTANCE)

Common name	Abbreviation	Pathogen causal agent
Bacterial spot	Xcv: 1-10	Xanthomonas campestris pv. vesticatoria [races 1, 2, 3, 4, 5, 6, 7, 8, 9,10]
Phytophthora blight	Pc	Phytophthora capsic/

HM.CLAUSE. Inc.

260 Cousteau Place, Suite 210, Davis, CA 95618 | 1-800-320-4672 | Web: www.hmclause.com

IR

IR

HM CLAUSE

Technical data and disease resistance ratings shown are averages of results from observations at various locations, under different conditions, and laboratory tests. It is not a prediction of future performance but a summary of part results. Seed performance, yield, and crop results will vary depending on geographic areas, environment conditions and pressure, field growing and management practices, and the presence of pests or pathogens. New, unknown, and/or atypical pathogen strains may overcome the resistance of the seed. Acceptance of the HMCLAUSE limitation of Warranty and Liability and Use Restriction, included with our seed packages or available at www.Imclauses.com, is a condition of use of all our products.







Questions/Comments?





THANK YOU!

