Commercial Control of *Xanthomonas campestris* pv. *vesicatoria* races in pepper

		BS resistance genes				
X . c . v . Pepper Race	Functional avirulence gene carried by *X . c . vesicatoria*	ECW (No R gene)	ECW 10R BS_1 gene	ECW 20R BS_2 gene	ECW 30R BS_3 gene	PI 235047 BS_4 gene
0	*avrBS*$_{1,}$ *avrBS*$_{2,}$ *avrBS*$_3$, *avrBS*$_4$	S	HR	HR	HR	HR
1	*avrBS*$_2$, *avrBS*$_3$, *avrBS*$_4$	S	S	HR	HR	HR
2	*avrBS*$_1$, *avrBS*$_2$	S	HR	HR	S	S
3	*avrBS*$_2$, *avrBS*$_4$	S	S	HR	S	HR
4	*avrBS*$_3$, *avrBS*$_4$	S	S	S	HR	HR
5	*avrBS*$_1$	S	HR	S	S	S
6	*avrBS*$_4$	S	S	S	S	HR
7	*avrBS*$_2$, *avrBS*$_3$,	S	S	HR	HR	S
8	*avrBS*$_2$	S	S	HR	S	S
9	*avrBS*$_3$	S	S	S	HR	S
10	none	S	S	S	S	S

ECW = Early Cal Wonder
ECW 10R, ECW 20R, and ECW 30R are near isogenic and differ solely by the presence of the BS_1, BS_2, and BS_3 genes, respectively.

S = Susceptible reaction to *Xanthomonas campestris* pv. *vesicatoria*
HR = Hypersensitive-resistant reaction to *Xanthomonas campestris* pv. *vesicatoria*
R = Resistant (non-hypersensitive) reaction to *Xanthomonas campestris* pv. *vesicatoria*

Note: Hypersensitive resistance is dominant to susceptibility.
Avirulence is dominant to virulence.

PI 235047 (*Capsicum pubescens*): BS_4 gene confers hypersensitive resistance to *Xcv* P6 and differentiates *Xcv* P1 from *Xcv* P7, *Xcv* P3 from *Xcv* P8, *Xcv* P4 from *Xcv* P9, and *Xcv* P6 from *Xcv* P10.