

**Table S1.** Characteristics of 2009<sup>a</sup> and 2010 sites sampled for Phz<sup>+</sup> strains

Site ID	GPS coordinates	Date sampled	Plant sampled	Phz <sup>+</sup> <i>Pseudomonas</i> spp.		Approx. mean annual precipitation (mm)	No. Phz <sup>+</sup> strains isolated
				Population density (logCFU g <sup>-1</sup> root f.w. ± SD)	Colonization frequency		
S16X09	46°15'59"N, 118°11'15"W	03/17/09	Winter wheat	6.2 ± 2.1	0.3	478	14
S17X09	46°17'48"N, 118°26'23"W	03/17/09	Winter wheat	5.6 ± 1.2	0.3	352	24
S21X09	46°9'49"N, 119°42'23"W	03/24/09	Winter wheat	6.4 ± 0.9	1.0	235	38
S22X09	46°7'58"N, 119°42'21"W	03/24/09	Winter wheat	6.5 ± 1.7	0.8	230	33
S23X09	46°7'37"N, 119°44'20"W	03/24/09	Winter wheat	6.1 ± 0.8	0.8	246	9
S24X09	46°7'38"N, 119°51'21"W	03/24/09	Winter wheat	5.6 ± 1.3	0.9	246	27
S25X09	46°1'36"N, 120°15'53"W	03/24/09	Winter wheat	7.0 ± 1.3	1.0	348	41
S26X09	46°6'8"N, 119°36'20"W	03/24/09	Winter wheat	5.5 ± 0.8	0.8	226	11
S27X09	46°9'27"N, 119°36'7"W	03/24/09	Winter wheat	6.9 ± 0.9	0.9	232	22
S31X09	46°48'39"N, 117°37'12"W	04/21/09	Winter wheat	5.5 ± 1.8	0.8	448	12
S33X09	46°51'15"N, 118°20'10"W	04/21/09	Winter wheat	5.2 ± 1.3	0.9	309	18
S34X09	47°0'4"N, 118°20'48"W	04/21/09	Winter wheat	5.7 ± 1.6	1.0	290	16
S35X09	47°7'26"N,	04/21/09	Winter wheat	5.7 ± 2.0	0.8	275	4

118°36'4"W

S36X09	46°54'45"N, 118°33'58"W	04/21/09	Winter wheat	6.2 ± 1.3	1.0	261	42
S37X09	46°47'41"N, 118°33'28"W	04/21/09	Winter wheat	6.0 ± 1.5	0.9	259	4
S38X09	46°47'46"N, 118°40'19"W	04/21/09	Winter wheat	6.4 ± 0.9	0.9	243	2
S39X09	46°47'35"N, 118°43'48"W	04/21/09	Winter wheat	5.9 ± 1.4	0.8	237	19
S41X09	47°1'49"N, 117°21'47"W	05/04/09	Winter wheat	6.0 ± 1.3	0.4	520	30
S42X09	47°25'12"N, 117°21'52"W	05/04/09	Winter wheat	4.5 ± 1.2	0.6	475	1
S44X09	47°39'28"N, 117°56'54"W	05/04/09	Winter wheat	4.0 ± 0.9	0.6	441	34
S46X09	47°43'43"N, 118°43'23"W	05/04/09	Winter wheat	6.9 ± 1.1	0.8	356	5
S49X09	47°10'39"N, 117°52'12"W	05/04/09	Winter wheat	4.1 ± 0.6	0.3	336	11
S63X09	45°51'0"N, 118°43'7"W	06/09/09	Winter wheat	5.2 ± 1.1	0.9	470	6
S64X09	45°50'31"N, 118°47'47"W	06/09/09	Winter wheat	5.1 ± 0.9	0.9	405	2
S65X09	45°47'29"N, 118°48'28"W	06/09/09	Winter wheat	5.6 ± 0.8	0.9	374	17
S611X09	46°37'40"N, 118°43'54"W	06/09/09	Winter wheat	4.1 ± 0.6	0.8	250	4
1X09	47°8'28"N, 118°29'40"W	06/15/09	Blue wildrye ( <i>Elymus glaucus</i> Buckley)	5.8 ± 1.1	1.0	295	2
3X09	47°8'28"N, 118°29'40"W	06/15/09	Wild grass ( <i>Agropyron cristatum</i> )	4.9 ± 1.4	0.8	295	2

4X09	47°8'28"N, 118°29'40"W	06/15/09	Cheatgrass ( <i>Bromus tectorum</i> L.)	4.2 ± 1.1	1.0	295	3
41X10 <sup>c</sup>	46°47'54"N, 118°29'32"W	06/15/10	Needle & thread grass ( <i>Stipa comata</i> L.)	3.7 ± 0.9	0.6	264	10
42X10 <sup>c</sup>	46°47'54"N, 118°29'32"W	06/15/10	Spring wheat	5.6 ± 1.0	1.0	264	18
43X10 <sup>c</sup>	46°47'54"N, 118°29'32"W	06/15/10	Common yarrow ( <i>Achillea millefolium</i> L.)	4.9 ± 1.0	0.8	264	16
<i>Total strains</i>							497

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<sup>a</sup> Site characteristics are extracted from Mavrodi, DV et al. 2012 Appl. Environ. Microbiol. and Mavrodi, OV et al. 2012 Appl. Environ. Microbiol.

<sup>b</sup> Approximate mean annual precipitation (1971-2000) from PRISM Climate Group data mapped using ArcGIS v.9.3 (Esri, Inc.)

<sup>c</sup> 2010 sites were sampled as a side-by-side comparison of strains colonizing spring wheat and two native plants bordering the field in undisturbed soil