

**Table S1.** Quanti-qualitative descriptors of seed, flower, leaf and pod recorded on fifty-sev

Accession number	Local name of landraces	Seed coat pattern (SCP)	Seed coat color		
			darker (CSCD)*	lighter (CSCL)	prevalent (PCSC)
58/2015	'Fasolu del Prete'	9	8	1	3
59/2015	'Carrubara Baccello Rugoso'	1	6	4	1
60/2015	'Buttuna di Gaddru'	2	7	5	1
61/2015	'Curnittu Calabrisi'	1	4	5	3
62/2015	'Carrubaru Niuru'	0	8	0	0
63/2015	'Carrazzu Crioto'	2	8 (73%) 6 (27%)	5	1
64/2015	'Calabrisi Baccello Drittu'	1	4	2	1
65/2015	'Calabrisi Biancu'	0	0	1	0
66/2015	'Carrazzu Viola'	2	7	5	1
67/2015	'Bavaluciaru di Tri Voti'	2	4	2	1
68/2015	'Rosa Lungo'	1	4	5	3
69/2015	'Carrazzu di Maisa'	3	7	5	1
70/2015	'Fasolu di Pasta Biancu'	0	0	1	0
71/2015	'Santagasi'	1	6	5	3
72/2015	'Carrazzu Rosa'	2	6	5	1
73/2015	'Fasolu di Petra'	2	6	5	1
74/2015	'Mignacca'	3	6	5	1
75/2015	'Calabrisi'	1	4	5	3
76/2015	'Crucchittu Settembrinu'	3	6	5	2
77/2015	'Carrazzu du Miricanu'	2	8 (53%) 6 (47%)	5	1
78/2015	'Tignusu Calabrisi'	0	0	4	0
79/2015	'Ucchittu di zappa'	6	7	1	1
80/2015	'Vanadia di Tortorici'	0	0	5	0
81/2015	'Carrazzu pi Sicari'	2	8 (26%) 6 (74%)	5	1
82/2015	'Setticanni'	0	8	0	0
83/2015	'Ucchittu Santangilisi'	6	7	1	1
84/2015	'Crucchittu Criotu'	3	6	5	2
85/2015	'Carrubara Baccello Liscio'	1	6	4	1
86/2015	'Fasolu di Caminu'	0	8	0	0
87/2015	'Lumachedda Chiara'	2	4	2	1
88/2015	'Carrazzu di Ucria'	2	8	2	1
89/2015	'Crucchittu di Floresta'	0	7	0	0
91/2015	'Occhio di Pirnici'	11	(8/4)**	1	1
92/2015	'Sanfratellano'	1	4	2	1

93/2015	'Crucchittu Rummuledda'	3	6	5	2
94/2015	'Rosa Tunnu'	1	4	5	3
95/2015	'Carrazzu di Piano Campo'	2	8	2	1
96/2015	'Carrazzu Niuru pi Siccari'	0	8	0	0
97/2015	'Disio'	0	0	1	0
98/2015	'Carrazzu Nustrali'	2	7	5	1
99/2015	'Niuru Senza Sfilazzi'	0	7	0	0
100/2015	'Fasolu di Padre Bernardinu'	0	0	5	0
101/2015	'Virdi Lungarinu'	0	0	5	0
102/2015	Pinuttaru'	2	7	5	1
103/2015	'Rampicanti Nerella'	0	8 (65%)	7 (35%)	0
104/2015	'Ianchittu ma Beddu'	0	0	1	0
105/2015	Zicca'	0	0	4	0
106/2015	'Occhittu Rosa'	6	5	1	1
107/2015	'Massaru'	2	7	5	1
108/2015	'Nanu Palermitanu'	2	6	5	1
109/2015	'Nanu Niuru'	0	8	0	0
110/2015	'Nanu Virdi'	0	0	5	0
112/2015	'Nanu Calabrisi'	0	0	5	0
113/2015	'Nanu di Castania'	0	0	3	0
114/2015	'Nanu Carrazzu'	2	6	5 (17%)	4(83%)
121/2015	'Munachedda'	9	8	1	3
122/2015	'Facigghiuni'	3	6	5	1

\* in brackets percentage of seed with different color calculated from a bulk of 50 seed for each landrace

\*\* in brackets seed color of intricate coat pattern

\*\*\*yellow color of wings of flower

a) Measured parallel to the hilum

b) measured from hilum to opposite side

c) Weight of 100 seeds at a moisture content of 6-8%

700 *Phaseolus vulgaris* L. landraces conserved at SPGR/PA.

Seed shape (SSH)	Brilliance (BS)	Seed Morphotype code	Flower color		Pod color	
			banner (CFB)	wings (CFW)	immature (IPC)	mature (MPC)
1	5	981315	1	1	11	4
4	5	164145	1	1	7	4
4	7	275147	3	3	4	1
1	7	145317	3	3	7	5
4	7	080047	3	3	7	5
3	3	285133	3	3	3	1
3	5	142135	3	1	5	4
4	3	001043	1	1	10	4
3	5	275135	3	3	7	1
2	5	242125	1	1	7	4
4	5	145345	3	3	7	4
3	5	375135	9	8	7	5
4	3	001043	1	1	7	4
4	3	165343	3	1	7	4
3	7	265137	3	1	7	4
3	5	265135	3	1	7	4
1	7	365117	3	1	4	5
1	5	145315	3	1	5	4
2	5	365225	3	1	7	4
3	5	285135	9	3	3	5
4	3	004043	1	1	7	4
2	3	671123	1	1	7	4
3	7	005037	3	1	4	4
3	7	265137	9	8	3	5
1	5	080015	9	8	11	5
2	3	671123	1	1	7	4
3	5	365235	9	3	11	4
4	3	164143	1	1	11	4
1	5	080015	9	8	7	4
1	3	242113	3	1	7	4
3	3	282133	3	3	3	5
3	7	070037	3	3	2	4
3	3	11(8/4)1133	1	1	7	4
3	3	142133	9	3	2	1

3	5	365235	9	8	10	4
1	5	145315	3	1	7	4
2	7	282127	9	3	7	5
1	7	080017	9	8	7	5
1	5	001015	1	1	7	4
2	7	275127	9	3	7	1
3	3	070033	9	8	7	4
3	3	005033	3	1	7	4
4	5	005045	3	3	7	4
3	5	275135	9	3	7	4
4	5	080045	9	8	7	4
4	3	001043	1	1	7	4
3	5	004035	9	8	7	4
4	5	651145	1	1	7	4
2	5	275125	9	3	7	1
3	5	265135	3	1	4	5
3	3	080033	9	8	7	1
4	5	005045	1	1	7	4
4	3	005043	3	1	4	1
3	3	003033	1	1	7	4
3	5	264135	3	1	4	5
1	5	981315	1	10***	7	4
4	3	365143	8	8	3	5

Pod curvature (PC)	Leaf shape (LS)	Seed length <sup>a</sup> (mm) (SL)	Seed height <sup>b</sup> (mm) (SH)	Seed width (mm) (SW)	Seed/ pod (n) (SxP)
7	2	11.7	8.1	9.3	6.7
9	2	15.3	5.5	7.0	8.7
7	2	20.1	8.0	10.3	10.7
5	2	11.5	7.3	6.7	6.8
5	3	12.0	4.5	6.2	7.7
7	2	16.7	7.6	8.6	6.0
5	2	11.9	6.2	8.8	7.3
1	2	14.8	5.3	6.9	13.0
8	3	16.3	7.0	9.7	7.3
5	3	15.2	7.3	7.9	7.0
8	2	17.9	8.0	10.7	7.3
7	3	15.1	5.2	9.9	6.7
7	3	16.1	6.4	6.6	7.3
8	2	18.4	9.1	8.9	5.7
8	2	14.3	6.9	8.8	7.3
7	2	14.2	5.9	9.1	5.7
7	3	15.0	8.0	11.0	4.7
7	2	10.4	7.6	8.7	6.7
8	3	10.9	6.6	7.4	8.3
5	3	14.9	5.9	7	6.0
5	3	16.8	5.9	9.0	10.7
8	3	18.6	11.7	7.3	5.3
7	2	9.4	6.8	7.9	5.7
5	3	15.1	5.8	9.7	6.7
8	3	13.0	7.2	8.5	5.0
8	2	14.1	7.4	8.4	6.7
9	2	13.8	5.9	6.9	6.3
5	2	16.7	7.0	6.8	7.7
8	2	13.1	8.0	10.4	6.3
1	2	11.3	6.2	8.2	5.7
5	3	13.4	7.1	7.2	7.0
9	3	12.9	6.9	6.5	7.3
8	3	14.8	7.2	8.5	6.7
1	3	12.8	6.2	4.6	8.7

8	3	14.0	8.2	7.3	6.7
8	3	13.1	7.8	7.2	7.3
7	2	14.8	6.4	8.7	5.3
8	2	11.4	6.2	8.4	5.3
7	3	12.5	7.9	8.8	5.7
7	2	14.0	6.6	8.0	5.7
7	3	13.2	5.3	5.5	5.3
8	2	19.5	11.5	11.0	7.3
8	2	15.5	5.5	8.0	7.7
5	3	15.7	6.4	6.0	5.7
5	3	11.7	4.8	4.6	8.7
5	3	14.3	5.2	8.7	8.3
5	3	8.8	6.0	6.7	6.3
8	2	13.6	6.1	6.7	8.3
8	3	13.3	7.3	10.6	6.3
1	1	13.1	6.2	9.1	6.7
1	1	9.1	5.4	4.8	8.7
5	1	14.5	6.4	6.1	7.3
5	2	14.7	7.3	6.7	6.7
5	2	12.2	7.1	6.7	6.0
5	3	14.5	6.8	6.1	6.3
1	3	11.7	9.9	7.5	5.7
8	2	17.7	10.4	6.2	5.7

Pod length (cm) (PL)	100-seed weight <sup>c</sup> (g) (100W)	Dry bean yield (Kg/mq) (Y)
9.03	57.8	0.80
15.83	44.5	1.53
17.97	79.6	2.55
11.00	61.2	3.48
14.50	31.0	2.36
13.17	75.3	1.67
9.70	49.9	1.29
16.00	36.3	2.17
10.50	59.2	1.98
11.80	68.7	2.25
15.20	75.3	1.31
9.60	49.0	2.07
18.10	55.6	1.49
14.50	61.6	2.32
10.23	58.3	1.08
8.20	54.4	1.28
10.60	51.5	1.81
8.73	58.2	3.16
9.03	40.9	2.58
12.80	66.2	2.39
17.77	45.2	2.30
9.33	52.3	5.20
10.17	57.4	2.20
11.77	64.2	2.14
9.67	51.0	1.83
9.96	57.7	3.63
13.93	56.9	0.51
17.47	45.5	1.31
13.13	59.6	1.47
9.10	45.5	1.88
9.77	60.5	0.53
8.33	76.4	1.30
11.80	52.9	4.06
15.63	60.7	2.43

8.07	41.2	1.35
10.77	69.7	4.02
9.40	55.8	3.23
9.10	57.6	3.59
11.30	57.3	3.17
12.37	54.1	1.61
10.73	34.9	1.80
9.83	45.9	4.56
14.73	48.0	2.27
13.20	59.9	3.3
18.23	25.3	2.60
18.53	46.2	2.49
8.27	44.9	2.66
12.00	51.6	3.66
10.90	57.9	3.59
11.13	66.8	4.07
9.93	23.7	2.02
9.63	50.3	1.19
17.97	54.8	1.45
11.30	53.0	0.43
10.07	56.3	0.69
8.10	66.4	3.60
12.10	80.3	3.08