

Table 1-suppl: Pea mutants phenotypic list

	Major category	Sub category	Sub sub category	no.of families		
1	Cotyledon	Color	yellow variegated	48		
			yellow bright	25		
			albino	53		
			dark	5		
		Shape	green variegated	41		
			curling	26		
			waxy	6		
2	Plantlet arc	Architecture	Bushy	5		
			Giant	2		
3	Plant archite	Architecture	compact	120		
			giant with normal intern	22		
			miniature	119		
			long internodes	1		
			giant with long internoc	3		
			compact at the top	1		
			hyper compact	50		
			Branching	basal branching	94	
				determinate growth	14	
				branching	85	
		4	Leaf	Color	bushy	12
					vein/lam - veining	20
					glossy	76
dark green	38					
variegated	88					
pale green	325					
silver-argenteum	45					
yellow	18					
Shape and	upcurling			108		
	indented edge			24		
	round			25		
	downcurling			33		
	afila - tendrils only			2		
5	Stipule	Size/Color/	coneshaped at leaf base	20		
			leaf ended by tendrils	17		
			margin raised	8		
			no tendril	1		
			leaflets superimposed	7		
			rhomboid-pointed	34		
			distorted	64		
			long tendrils	1		
			multifoliate	43		
			Appearance	wilted	10	
				spotted	1	
				thick	11	
				waxy	2	
crinkled	53					
Size	stunted	144				
	mottled	32				
	narrow	39				
			medium	36		
			very narrow	6		
			indented	30		

			pointed	3
			narrow	10
			round	2
			asymmetric	3
			large	4
			distorted	14
			silver-argenteum	2
			white variegated	9
6	Petiole	Petiole	short	4
			absence	2
7	Stem	Stem size	extrem dwarf	422
			dwarf(1/4-2/3 of n)	1025
		Shape	thin	32
			fasciated	4
8	Flowers	Flower mor	abnormal petals	3
			abnormal all	18
			cauliflower type inflore:	3
		Flowering t	early flowering	4
		Reproducti	sterile flowers	10
			no flower	2
9	Seed	Seed color	beige	1
			pale	1
		Shape	wrinkled	1
			crackled seed coat	1
			extremely wrinkled	2
		Size	large	17
			small	49