

**Appendix 1: Mean % tuber dry matter for year 1 samples**

Clone_ID	Clone_Name	Mean % Dry matter
POTAP_290	00C133-020	17
POTAP_348	01C 071-002	20
POTAP_292	02M 012-001	22
POTAP_350	03M 016-002	21
POTAP_351	03M 034-002	19
POTAP_357	04C 055-004	15
POTAP_336	04C 126-005	22
POTAP_352	04M 034-013	19
POTAP_353	05M 002-001	20
POTAP_354	05M 004-003	20
POTAP_355	05M 004-008	20
POTAP_356	05M 012-004	20
POTAP_349	06C 127-002	20
POTAP_300	12288 AF 23	16
POTAP_301	12601AB1	24
POTAP_302	12636 A 2	16
POTAP_303	15119 AC 5	16
POTAP_304	1512C(16)	19
POTAP_305	15144 A 3	17
POTAP_306	1563C(14)	24
POTAP_294	2182EF(7)	20
POTAP_297	3681AD(1)	23
POTAP_298	5008AB(6)	20
POTAP_299	8204 A 4	16
POTAP_004	AGRIA	18
POTAP_005	AILSA	21
POTAP_008	ALMERA	15
POTAP_009	ALPHA	20
POTAP_010	ALWARA	16
POTAP_011	AMADRA	23
POTAP_013	AMOUR	16
POTAP_014	ANNA	19
POTAP_015	ANNABELLE	18
POTAP_016	ANYA	22
POTAP_017	ARGOS	16
POTAP_018	ARIELLE	20
POTAP_019	ARKULA	19
POTAP_020	ARMADA	14
POTAP_029	AVALANCHE	18
POTAP_031	BAILLIE	20
POTAP_032	BALMORAL	16
POTAP_033	BAMBINO	18
POTAP_337	BARNA	18
POTAP_034	BELLE DE FONTENAY	18
POTAP_035	BENOL	18
POTAP_036	BF 15	17

Clone_ID	Clone_Name	Mean % Dry matter
POTAP_037	BINTJE	19
POTAP_038	BIONICA EX SASA	20
POTAP_040	BLUE DANUBE	23
POTAP_041	BLUSH	14
POTAP_042	BONNIE	18
POTAP_043	BOUNTY	17
POTAP_338	BRITISH QUEEN	19
POTAP_044	BRODICK	23
POTAP_045	BRODIE	18
POTAP_046	BUCHAN	16
POTAP_047	BURREN	18
POTAP_048	CABARET 1	20
POTAP_049	CAESAR	18
POTAP_050	CARA	19
POTAP_051	CARLINGFORD	16
POTAP_055	CASABLANCA	17
POTAP_056	CELINE	17
POTAP_057	CHALLENGER	20
POTAP_058	CHARLOTTE	21
POTAP_059	CHICAGO	21
POTAP_060	CHIEFTAIN	17
POTAP_061	CHOPIN	17
POTAP_062	CLARET	20
POTAP_064	CORINE	24
POTAP_065	COSMOS	18
POTAP_066	COURAGE	21
POTAP_067	COURLAN	21
POTAP_068	CRAIGS ROYAL	14
POTAP_069	CRAIGS SNOW-WHITE	19
POTAP_070	CRAMOND	19
POTAP_071	CRISPS FOR ALL	22
POTAP_072	CROMWELL	20
POTAP_307	D22/1	19
POTAP_308	D23/3	22
POTAP_309	D47-11	22
POTAP_310	D49/1	16
POTAP_073	DAISY	21
POTAP_074	DARK RED NORLAND	19
POTAP_075	DARWINA	24
POTAP_077	DESIREE	20
POTAP_078	DITTA	18
POTAP_081	DR. MCINTOSH	19
POTAP_082	DRAGA	17
POTAP_083	DUKE OF YORK	19
POTAP_084	DUNBAR STANDARD	20
POTAP_085	DUNDROD	18
POTAP_086	ECLIPSE	18
POTAP_087	EDEN	22
POTAP_088	EDZELL BLUE	19

Clone_ID	Clone_Name	Mean % Dry matter
POTAP_089	EGINHIEMER	22
POTAP_339	ELISABETH	17
POTAP_090	EMPEROR	23
POTAP_091	EOS	17
POTAP_092	EPICURE	19
POTAP_094	ERNTESTOLZ	23
POTAP_095	ESCORT	19
POTAP_340	ESMERALDA	18
POTAP_096	ESTIMA	16
POTAP_098	EVE BALFOUR	16
POTAP_099	EXCALIBUR	15
POTAP_100	EXQUISA	18
POTAP_341	FESTIVAL	16
POTAP_101	FIANNA	19
POTAP_102	FIFTYFOLD	21
POTAP_103	FONTANE	21
POTAP_104	FORTYFOLD	21
POTAP_105	FRONTIER RUSSET	18
POTAP_311	G.8107(1)	21
POTAP_312	G.8866(1)	19
POTAP_313	G.8866(11)	17
POTAP_314	G.8867(15)	18
POTAP_315	G.8867Y%12	18
POTAP_316	G.8883(9)	19
POTAP_317	G.8884(2)	19
POTAP_343	GALACTICA	19
POTAP_106	GEMSON	19
POTAP_318	GL.76B/102	24
POTAP_319	GL.76B/94	21
POTAP_320	GL.77/58	18
POTAP_321	GL.77M/106	20
POTAP_322	GL.78/166	17
POTAP_323	GL.78/53	19
POTAP_324	GL.78/97	19
POTAP_325	GL.79/42	22
POTAP_326	GL.79/45	18
POTAP_327	GL.81 NT 25	21
POTAP_107	GLADIATOR	21
POTAP_108	GLAMIS	18
POTAP_109	GLORIA	20
POTAP_110	GOLDEN MILLENNIUM	20
POTAP_111	GOLDEN NUGGET	17
POTAP_112	GOLDEN WONDER	25
POTAP_114	GRANOLA	21
POTAP_328	H1H3 (101)	21
POTAP_330	H1H3 (3)	17
POTAP_115	HARBOROUGH HARVEST	22
POTAP_116	HARLEQUIN	20
POTAP_118	HERMES 1	24

Clone_ID	Clone_Name	Mean % Dry matter
POTAP_119	HIGHLAND BUR. RED	23
POTAP_120	HOME GUARD	18
POTAP_121	HORIZON	21
POTAP_123	INNOVATOR	21
POTAP_124	INTERNATIONAL KIDNEY	20
POTAP_125	ISLE OF JURA	18
POTAP_129	JULIETTE	19
POTAP_130	KARLENA	27
POTAP_132	KERR'S PINK	20
POTAP_133	KESTREL	18
POTAP_134	KIFLI	19
POTAP_135	KING EDWARD	21
POTAP_136	KINGSTON	18
POTAP_137	KIRRIE	19
POTAP_138	KUFRI CHANDRAMUKHI	18
POTAP_139	KUFRI JYOTI	20
POTAP_140	KURODA	20
POTAP_141	LADY BALFOUR	17
POTAP_142	LADY CHRISTL	18
POTAP_143	LADY CLAIRE	20
POTAP_144	LADY JO	24
POTAP_145	LADY ROSETTA	22
POTAP_147	LIBERTAS	25
POTAP_148	LINDA	21
POTAP_149	LINTON	21
POTAP_150	LINZER DELIKATESS	17
POTAP_151	LIONHEART	18
POTAP_152	MADELEINE	18
POTAP_153	MADINGLEY	21
POTAP_154	MAJESTIC	20
POTAP_155	MARABEL	18
POTAP_157	MARFONA 1	17
POTAP_159	MARILYN	16
POTAP_160	MARIS ANCHOR	18
POTAP_161	MARIS BARD	17
POTAP_162	MARIS PAGE	17
POTAP_163	MARIS PEER	20
POTAP_164	MARIS PIPER	20
POTAP_165	MARKIES	22
POTAP_166	MAXINE	19
POTAP_345	MEGARA	22
POTAP_167	MELODY	23
POTAP_168	MIDAS	20
POTAP_169	MILVA	18
POTAP_170	MIMI	20
POTAP_172	MIRA	21
POTAP_173	MOIRA	20
POTAP_175	MONTROSE	20
POTAP_176	MORAG	17

Clone_ID	Clone_Name	Mean % Dry matter
POTAP_177	MORENE	17
POTAP_178	MOZART	16
POTAP_180	MYATT'S ASHLEAF	20
POTAP_181	NADINE	15
POTAP_182	NAVAN	18
POTAP_333	NDTX 4271 5-R	17
POTAP_183	NICOLA	18
POTAP_184	NOVELLA	17
POTAP_185	OLYMPUS	21
POTAP_186	OPERA	19
POTAP_187	ORCHESTRA	18
POTAP_188	ORIANA	18
POTAP_190	OTHELLO	17
POTAP_191	PALADIN	19
POTAP_192	PANDA	23
POTAP_193	PARAMOUNT	16
POTAP_194	PATRONES	18
POTAP_195	PENTLAND ACE	23
POTAP_196	PENTLAND BEAUTY	20
POTAP_197	PENTLAND CROWN	20
POTAP_198	PENTLAND DELL 1	19
POTAP_199	PENTLAND HAWK	21
POTAP_200	PENTLAND IVORY	19
POTAP_201	PENTLAND JAVELIN	20
POTAP_202	PENTLAND MARBLE	17
POTAP_203	PENTLAND SQUIRE	20
POTAP_204	PEPO (1978)	18
POTAP_206	PICASSO	14
POTAP_207	PIMPERNEL	25
POTAP_208	PIONEER	21
POTAP_209	PIXIE	20
POTAP_210	PREMIERE	20
POTAP_211	PRODUCENT	24
POTAP_212	PROVOST	16
POTAP_213	R.P.LUSTRE	17
POTAP_214	RANGER RUSSET	21
POTAP_215	RATTE	22
POTAP_216	RECORD	23
POTAP_219	REMBRANDT	19
POTAP_220	RIO ROJO	17
POTAP_222	ROBIJN	23
POTAP_223	ROCKET	19
POTAP_224	RODE STAR	22
POTAP_225	ROMANO	19
POTAP_346	ROMEO	20
POTAP_226	ROOSTER	20
POTAP_227	ROYAL	20
POTAP_232	ROYAL KIDNEY	21
POTAP_228	RUBESSE	21

Clone_ID	Clone_Name	Mean % Dry matter
POTAP_230	RUSSET BURBANK	21
POTAP_231	RUSSET NORKOTAH	17
POTAP_233	SAFARI	16
POTAP_234	SANTANA	22
POTAP_235	SANTE	19
POTAP_236	SAPHIRE	20
POTAP_237	SARPO MIRA	21
POTAP_238	SARPO SHONA	22
POTAP_239	SASSY	19
POTAP_240	SATURNA	22
POTAP_241	SAVA	20
POTAP_242	SAXON	20
POTAP_243	SCARBOROUGH	21
POTAP_245	SEFTON WONDER	19
POTAP_246	SERAFINA	19
POTAP_247	SETANTA	20
POTAP_248	SHARPE'S EXPRESS	23
POTAP_249	SHELAGH	17
POTAP_250	SHELFORD	22
POTAP_251	SHEPODY 1	19
POTAP_252	SHERIFF	20
POTAP_253	SHET. BLACK SASA08	21
POTAP_254	SHULA	16
POTAP_256	SLANEY	18
POTAP_257	SMITHS COMET	19
POTAP_258	SOFIA	16
POTAP_259	SPEY	20
POTAP_260	SPUNTA	20
POTAP_261	STAMINA	14
POTAP_262	STEMSTER	17
POTAP_263	STIRLING	20
POTAP_264	STORMONT ENTERPRISE	17
POTAP_266	SYLVANA	19
POTAP_267	TAY	21
POTAP_268	TEENA	17
POTAP_269	TIMATE	16
POTAP_270	TOLUCA	21
POTAP_272	TORRIDON	22
POTAP_274	ULSTER SCEPTRE	18
POTAP_275	UMATILLA RUSSET	18
POTAP_276	VALES EMERALD	21
POTAP_277	VALES EVEREST	19
POTAP_278	VALES RUSSET	17
POTAP_279	VALES SOVEREIGN	18
POTAP_280	VALOR	16
POTAP_281	VAN GOGH	20
POTAP_282	VANTAGE	19
POTAP_283	VERDI	26
POTAP_284	VICTORIA	21

<b>Clone_ID</b>	<b>Clone_Name</b>	<b>Mean % Dry matter</b>
POTAP_285	VIVALDI	16
POTAP_286	WILJA 1	18
POTAP_287	WINSTON	14
POTAP_332	XD2-21	21
POTAP_288	YUKON GOLD	20
POTAP_289	ZORBA	22