

FAIR CT95-465

Tailoring the Onion Crop for the 21<sup>st</sup> Century: the Development of High Quality Fresh & Processed Onions  
Core Collection of Onion Designed for Use in the Project

Accession Name	Accession Number	Donor Name	Original Source	Country of Origin	Pyruvate um/g FW *	% Dry Matter **
<b>Wild taxa</b>						
<i>A.fistulosum</i>	CGN 14763	CGN				
<i>A.galanthum</i>	CGN 19250	CGN				
<i>A.lineare</i>	TAX2335	IPK				
<i>A.roylei</i>	CGN 20520	CGN				
<b>Bulb Onion</b>						
Ailsa Craig		S&G		GBR	10.80	8.42
Alsogodi	ALL679	IPK		DEU	9.70	13.05
Auxonne	HRIGRU 4648	HRIGRU	INRA	FRA	8.70	15.85
Babosa	CGN 15746	CGN	S&G	ESP	6.30	7.95
Babosa Jenan	HRIGRU 7010	HRIGRU	Shippo Seed Co	ESP	4.50	8.36
Balakleevskij Char'kovskij	ALL163	IPK		SUN	9.00	16.95
Barletta	HRIGRU 6417	HRIGRU	Hazera	ISR	6.70	12.06
Ben Shemen	HRIGRU 5772	HRIGRU	Hazera	ISR	5.40	10.94
Bennis Red		S&G		NLD	8.00	11.30
Bessonovskii	CGN 16360	CGN	RUSVIR	SUN	12.70	18.89
Beth Alpha Autum	HRIGRU 6285	HRIGRU	Hazera	ISR	6.10	10.33
Blanc de Lisbonne	CGN 16431	CGN	Clause	PRT	9.00	14.32
Braeside Golden Globe	HRIGRU 230	HRIGRU		AUS	8.30	10.36
Bronze Kugel	CGN 16361	CGN	QUEDSG	DEU	10.70	13.79
Brown Spanish	HRIGRU 89	HRIGRU	A Yates	ESP	7.90	14.00
Buffalo F1	HRIGRU 4151	HRIGRU	Elite Zaden	NLD	8.90	9.17
California Red	HRIGRU 5548	HRIGRU	A Yates	NZL	7.80	9.48
Danilovsky 301 Elite	CGN 16363	CGN	RUSVIR	SUN	10.80	15.82
Dorata di Parma	CGN 14714	CGN	S&G	ITA	6.20	12.22
Downing Yellow Globe-Group 1	CGN 16430	CGN		USA	7.10	12.55
E20773 F1		NZW		NLD	7.10	17.62
Early Red	HRIGRU 10801	HRIGRU	Hazera	ISR	8.00	9.90
Exhibition	HRIGRU 5512	HRIGRU	Boyce Seed Co	GBR	11.20	13.58
Gelbe Wiener	CGN 16357	CGN	Bejo	AUT	8.90	12.92
Giant Zittau		S&G	Tozer	DEU	6.80	12.89
Giza 20	CGN 16351	CGN	IEE	EGY	7.00	15.71

Gladalan Brown		S&G		AUS	5.30	8.99
Granoble	HRIGRU 10806	HRIGRU	Peto Seeds	USA	8.80	7.59
Hiberna	HRIGRU 4093	HRIGRU		CSK	9.80	13.47
Hysol		S&G	S & G	NLD	10.40	17.40
Late Brown-Spearwood	CGN 16368	CGN	Yates	AUS	6.10	12.14
Iijn Senshyu Yellow		NZW		JPN	7.00	11.87
line AMS		NZW		HUN	9.50	18.84
Ljaskovski 58	HRIGRU 79	HRIGRU	BGRIIPR	BGR	7.50	18.19
local selection - landrace	CGN 16376	CGN	MCBE	BGR	9.70	16.63
local selection - landrace	CGN 15755	CGN	MCBE	BGR	9.20	14.61
local selection - landrace	HRIGRU 2427	HRIGRU	RUSVIR	SUN	9.10	14.41
Makoi Bronz	HRIGRU 9858	HRIGRU	Vetomag	HUN	10.70	13.94
Makoi sel. MAK S2829		NZW		HUN	8.50	17.38
Malakoff Spanish Type	HRIGRU 182	HRIGRU		ESP	12.90	13.71
Mitzri Haemek	HRIGRU 6416	HRIGRU	Hazera	ISR	6.70	16.08
New Mexico Yellow	HRIGRU 6122	HRIGRU	Asgrow Seeds	USA	5.40	9.31
NIZ 37-2 F1		NZW		NLD	8.00	17.53
Numex Dulce		715 VDHAVR	Joe Corgan	USA		8.51
Odourless	HRIGRU 85	HRIGRU	A Yates	AUS	6.20	8.48
Orient Express		S&G		EGY	7.10	15.32
Piroska		S&G	J.Wagner	DEU	7.80	12.34
Pogarskij Mestnyj Ulucsennyi	ALL155	IPK		SUN	8.70	17.83
Pompei	HRIGRU 6414	HRIGRU	Hazera	ISR		11.00
Pukekohe Longkeeper	HRIGRU 5524	HRIGRU		NZL	7.60	12.90
Pusa Red	HRIGRU 9798	HRIGRU	AADF	IND	8.20	14.52
Rawska	HRIGRU 183	HRIGRU		POL	10.60	15.49
Red Synthetic	HRIGRU 10800	HRIGRU	Hazera	ISR	10.90	13.18
Red Torpedo	HRIGRU 10609	HRIGRU	T&M	ITA	7.40	10.85
Red Whethersfield		S&G		NLD	10.30	12.28
Rijnsburger-Hyduro		S&G	Bejo	NLD	7.80	14.84
Rijnsburger-Jumbo		S&G	S&G	NLD	7.50	11.72
Rijnsburger-Rato		NZW		NLD	7.30	11.72
Rio Redondo		S&G	Rio Colorado	USA	6.10	9.46
S.R.Rond	HRIGRU 6742	HRIGRU	INRA	FRA	9.30	12.17
Sajovamos	HRIGRU 5766	HRIGRU	HUNRCA	HUN	7.10	16.24
Sapporo Yellow Globe	CGN 14724	CGN	VDHAVR	JPN	7.10	11.57
Sarand	HRIGRU 5769	HRIGRU	HUNRCA	HUN	9.70	17.03
Shakespeare	HRIGRU 12628	HRIGRU		GBR	7.70	10.69

Sidanovski	CGN 16429	CGN		BGR	9.00	17.50
Sierra		S&G	Bejo	USA	9.30	15.46
Sillani Sarga	ALL44	IPK		HUN	9.70	14.57
Southport White Globe	CGN 14735	CGN	A Yates	AUS	6.00	8.92
Southport White Globe selection		GFI		USA	11.20	19.75
Spirit F1		S&G	Bejo	NLD	6.80	11.28
Strigunovskij Nosovskij	ALL304	IPK		SUN	6.60	14.82
Sturon		S&G	S&G	NLD	7.60	12.76
Stuttgarter-Group 1	CGN 14741	CGN		DEU	10.40	15.59
Sweet Onion	HRIGRU 11760	HRIGRU	ISPORT	ITA	6.90	9.78
Texas Early Grano		S&G		USA	4.80	10.00
Vega F1	HRIGRU 11757	HRIGRU	ISPORT	ITA	9.00	10.78
Vsetatska	ALL675	IPK		CSK	6.10	14.81
Walla Walla Sweet	HRIGRU 11194	HRIGRU	local selection	USA	9.50	10.37
White Creole	HRIGRU 11964	HRIGRU	SunSeeds	USA	11.90	19.10
White Ebenezer-Group 1	CGN 14749	CGN		USA	9.70	17.15
White Sweet Spanish-Jumbo	HRIGRU 5124	HRIGRU	Northrup King	USA	6.20	11.24
Wolska-Group 1	CGN 14740	CGN		POL	7.70	12.68
Yellow Bermuda	HRIGRU 6715	HRIGRU	Arco Seeds	USA	5.70	10.45
Yellow Ebenezer-Group 1	CGN 16384	CGN		USA	8.00	16.20
Yellow Sweet Spanish		S&G	Peto Seeds	ESP	7.30	10.01
Yellow Sweet Spanish Utah-Jumbo	HRIGRU 6656	HRIGRU	SunSeeds	USA	6.00	9.83
Yellow Valencia	CGN 16410	CGN	NAKG	ESP	4.90	9.95
Yodalef	HRIGRU 6415	HRIGRU	Hazera	ISR	7.50	8.65
Zitavska Obri	ALL34	IPK		CSK	7.20	16.37
Zolotoj	CGN 16362	CGN	RUSVIR	SUN	8.80	12.82
<b>Shallot</b>						
shallot Atlantic	96007	PRI	G&S		13.40	17.64
shallot Pikant	96006	PRI	G&S		13.70	21.77
shallot Sante	96003	PRI	G&S		12.70	16.95
shallot Succes	96005	PRI	G&S		10.70	19.10
shallot Toppet	96004	PRI	G&S		10.80	16.70

### Key to Codes in Table:

AADF	Assoc. Agric. Development Foundation, India
Arco Seeds	California, USA
Asgrow Seed Co.	Kalamazoo, Michigan, USA
A Yates	Arthur Yates Seed Co, NSW, Australia
Bejo	Bejo Zaden B. V., The Netherlands
BGRIPR	Institute of Introduction and Plant Resources, Sadovo, Bulgaria
CGN	Centre for Genetic Resources, Wageningen, The Netherlands
DSC	Dessert Seed Co.,
GFI	Gilroy Food Inc., Gilroy, California, USA
G&S	Groot & Slot, The Netherlands
Hazera	Hazera Seed Co, Israel
HRIGRU	Genetic Resources Unit, Horticulture Research International, Wellesbourne, UK
HUNRCA	Institute for Agrobotany, Tapioszele, Hungary
INRA	INRA Versailles, France
IPK	Institut für Pflanzengenetik und Kulturpflanzenforschung, Gatersleben, Germany
ISPORT	Instituto Sperimentale per l'Orticoltura, Montanaso Lombardo, Italy
Joe Corgan	Las Cruces, New Mexico, U S A
J Wagner GmbH	Heidelberg, Germany
MCBE	IIPR & CGN expedition in Bulgaria
NAKG	Nederlandse Algemene Keuringsdienst voor Gronten, The Netherlands
Northrup King Seed Co.	Minneapolis, USA
NZW	Nickerson Zwaan B. V., The Netherlands
PRI	Plant Research International, Wageningen, The Netherlands
Peto Seeds Inc	Saticoy, CA, USA
QUEDSG	Deutscher Saatgutbetreib (DSG), Quedlinburg, Germany
Rio Colorado Seeds Ltd.	Yuma, AZ, USA
RUSVIR	N.I. Vavilov Research Institute of Plant Industry, St Petersburg, Russia
S&G	Sluis & Groot Seeds B. V., The Netherlands
Sun Seeds Inc	Hollister, CA, USA
T&M	Thompson & Morgan Ltd, Ipswich, UK
VDHAVR	van der Have B. V., The Netherlands

Note: A majority (73) of the 104 accessions of the OQCORE, i.e. those from CGN, IPK & HRIGRU, are in the European *Allium* database. The remaining 31 accessions came from the commercial project partners. It is possible to find 13 cultivars equivalent to these OQCORE entries in the EADB (same cultivar name, same commercial source - Texas Early Grano, Gladalan Brown, Yellow Sweet Spanish, Hysol, Red Wethersfield, Giant Zittau, Rijnsburger Jumbo, Rijnsburger Hyduro, Sturon, Owa, Ailsa Craig, Spirit F1 & Southport).. Also there are 2 EADB entries (Makoi & NIV) similar to OQCORE accessions, (Makoi sel MAK S2829 & NIV 37-2). Shallot accessions were supplied by G&S to PRI as vegetative material specifically for the project.

\* Pyruvate determinations were made by Jacques Auger, Université F. Rabelais, Faculté des Sciences et Techniques, Tours, France

\*\* Dry matter determinations were made by Rémi Kahane, COOPD'OR R&D (INRA-GAP), BV 85610, 21065 Dijon Cedex, France