Species Albuca humilis Albuca nelsonii Albuca setosa Albuca shawii Albuca shawii xhumilis Albuca sp Amarylis belladonna Amarylis belladonna Amarylis belladonna Androcymbium striatum Aristea ecklonii Babiana blanda Babiana kwer Mehridis Eabiana Ana Babiana nana Babiana sambucha Babiana tubukoa Babiana tubukoa Babiana tubukoa Babiana wirginea Babiana wirginea Babiana wirginea Chasmanthe bicolor Chasmanthe bicolor Chasmanthe bicolor Chasmanthe thorbunda Chasmanthe thorbunda Chasmanthe sp. Chasma Babiana 'Kew Hybrids' Cyanetia circhidiomis Cystanchus bachysiphon Cystanchus bachosi subsp. cooperi Daudenya alba Daudenya aurea Daudenya supita Diseana pulcherinia Diesana pulcherinia Dietes grandiflora Dietes iridioides Empodium flexile Eucomis autumnalis ssp amaryllidifolia Engodinal Receit Engodinal Receit Eucomit beclor Eucomit beclor Eucomit beclor Eucomit beclor Eucomit control Eucomit control Eucomit control Eucomit control Eucomit control Eucomit pile evonit Eucomit schol Euco Freesia andersoniae Freesia fucata Freesia fucata Freesia lactea Freesia lactea Freesia lactea Freesia bioa Freesia biofini Freesia biofini aba Freesia biofini aba Freesia biofini aba Freesia refacta Calonia candicaria Galadolas candinala Ciadolas candinala Gladiolus eckloni Gladiolus eckloni Gladiolus ferruginea Gladiolus flanagani Gladiolus flanagani Gladiolus flanagani Gladiolus flanagani Gladiolus griscus Gladiolus griscus Gladiolus Homoglad hybri Gladiolus Homoglad hybri Gladiolus natutoni x tristis Gladiolus nanus cultivars Gladiolus ochroleucus Gladiolus ochroleucus Gladiolus ochroleucus Gladiolus ochroleucus Gladiolus ochroleucus Gladiolus ochroleucus Cladiolus perividisore Gladiolus pervius Cladiolus stefanae Cladiolus stefanae Cladiolus stefano Cladiolus visitis Cladi

Coordination
 C

Glasshouse	Min temp	Extended frost?	Survived?	Comment
Yes	-6C	frost? No	Yes	Outdoors for summer
Yes Yes	-6C -6C	No No	Yes Yes	Outdoors for summer Outdoors for summer
Yes Unheated Coldframe Unheated	-6C -6C -5C	No Yes Yes	Yes Yes No	Outdoors for summer Not fleeced
Unheated Unheated Unheated	-5C -5C -5C	Yes Yes Yes	No Yes Yes	Damaged
Yes	-6C	No	Yes	Outdoors for summer
Yes	-4.5C	No	Yes	G/H well insulated
Yes	-4.5C	No	Yes	G/H well insulated
Yes	-4.5C	No	Yes	G/H well insulated
Unheated	-5C	Yes	No	
Unheated	-5C	Yes	Yes	Damaged
Unheated coldframe Unheated Unheated Yes	-18C -5C -5C -6C	Yes	Yes	Plunged in sand. Polycarbonate sheet over if wet
Unheated	-5C -5C	Yes Yes No	Yes	
Yes Yes	-6C -6C	No No	Yes Yes No Yes Yes	
Unheated coldfame	? -5C	No Yes	Yes Yes	Some frost. Now heated
Unheated	-5C	Yes	Yes	
				Occurs in both Winter & summer rainfall areas
Yes	-6C	No	Yes	Outdoors for summer
Yes Yes	-15C -15C		No No	Died in pot in unheated house at -15C Died in pot in unheated house at -15C
Yes	-15C		No	Died in pot in unheated house at -15C
Yes	-15C -6C	No	No Yes	Died in pot in unheated house at -15C
Yes	-6C	No	Yes	Outdoors for summer
Unheated Unheated Yes	-5C -5C	Yes Yes Yes	Yes Yes Yes Yes	Damaged Fieced on frosty nights Fieced on frosty nights
Yes	-3.6C -3.6C	Yes	Yes	Fleeced on frosty nights
Yes	-3.6C	Yes	Yes	Fleeced on frosty nights
Yes	-3.6C	Yes	Yes	Fleeced on frosty nights
Yes	-6C	No	Yes	Damaged
Unheated Unheated Unheated Coldframe	-6C -5C -5C -6C	Yes Yes	Yes Yes Yes	Not fleeced
Yes Unheated Coldframe	-4.5C -6C	No	Yes	G/H well insulated Not fleeced
Yes Unheated Coldframe	-3.6C -6C	No Yes Yes	Yes Yes Yes Yes	Fleeced on frosty nights Not fleeced
Contented Coldinarie	-00	103	163	
Yes Yes	-6C -6C	No No	Yes Yes	Outdoors for summer Outdoors for summer
Yes	-6C	No	Yes	Outdoors for summer
Unheated Coldframe Yes Yes	-6C -4.5C -4.5C	Yes No No	Yes Yes Yes Yes	Outdools to samiller Not fleeced G/H well insulated G/H well insulated
Yes Yes	-4.5C -4.5C -6C	No No	Yes Yes Yes	G/H well insulated G/H well insulated Outdoors for summer
Unheated Yes	-5C -6C	Yes No No	Yes Yes No	Outdoors for summer
Yes Yes Yes	-4.5C	No	Yes	Outdoors for summer G/H well insulated
Yes	-5C -6C -4.5C 0C -4.5C	No	Yes	G/H well insulated
Yes	-4.5C	No	Yes	G/H well insulated
Yes	-3.6C	Yes	Yes	Fleeced on frosty nights
Unheated	-5C	Yes	No	

	Outdoors	How long	Min temp	Extended frost?	Survived?	Comment
	Yes		-7C		Yes	Not survived at -10C in previous garden Needs some summer moisture Too wet in winter? Too wet in winter?
	Yes Yes Yes Yes Yes Yes		-7C -7C -6C -6C -6C		Yes Yes No Yes	Needs some summer moisture
	Yes		-6C	No	No	Too wet in winter?
	Yes		-6C	No No	Yes	Too wet in writer?
	Yes		-6C -7C	No	Yes	
	Yes		-7C -7C	Yes	Yes Yes Yes	Bad leaf damamage at -10C 11 weeks between -1C and -7C
	Yes		-7C		Yes	Leaf damage but survive & flower annually
	Yes		-6C	No	Yes	Doesn't flower
	Yes		-6C -7C	Yes	Yes	Almost evergreen
	Ver		-70		No	I as use killed by elighteet front
	Yes		-7C -7C	Yes	Yes	Does not flower Leaves killed by slightest frost
						Leaves killed by signtest trost
	Yes Yes		-10C -6C -7C -8C	Yes	No Yes	
	Yes		-7C	Yes	Yes	8 weeks between -1C and -7C
	Yes Yes Yes	Over 2 years	-8C -6C	Yes Yes No	Yes Yes Yes	Doesn't flower
						Doesn't lower
	Yes	Over 2 years Over 2 years	-8C	Yes	Yes	
	Yes Yes	over 2 years	-8C -8C -7C	163	Yes Yes	Survives but does not flower
	Yes	Over 2 years	-8C	Yes	Yes	
t						
	Yes	Over 2 years	-8C	Yes	Yes	
	Yes Yes Yes Yes Yes	Over 2 years	-8C	Yes Yes Yes	Yes Yes Yes	
	Yes		-8C -7C -6C -6C -6C	Yes	Yes	14 weeks between -1C and -7C
	Yes		-6C	Yes	Yes	Damaged
	Yes		-6C	Yes Yes	Yes Yes No	
		4 years	-6C	Yes	No	
	Yes	6 years		Yes		
	Yes		-7C		Yes Yes Yes Yes	
	Yes		-10C	Yes	Yes	Snow cover mitigated -10C
	Yes		-6C	No	Yes	
	Yes		-7C	Yes	Yes	15 weeks between -1C and -7C
	Yes	Over 2 years	-8C	Yes	Yes Yes Yes Yes	
	Yes	4 years	-6C	Yes Yes No Yes Yes		
	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	4 years	-7C -7C -10C -6C -7C -7C -8C -6C -10C -4.5C -7C	Yes	Yes Yes	2 days of extended frost
	Yes		-4.5C	Yes	Yes	2 days of extended frost
	Yes Yes Yes Yes Yes	1 year Over 2 years	-7C -8C -4.5C		Yes Yes Yes	Didn't flower
	Yes	Over 2 years	-8C -4.5C	Yes	Yes	2 days of extended frost Survived -3C but not -7C But killed at -7C Survived -3C but not -7C But killed at -7C
	Yes		-7C -3C		No Yes	Survived -3C but not -7C
	Yes		-3C		Yes	But killed at -7C Suprimed -2C but not -7C
	Yes Yes		-7C -3C		No Yes	But killed at -7C
	Yes Yes		-6C -7C	No	Yes Yes	Hardy to -15C against a west wall
	Yes		-7C		Yes	
	Yes		-10C	Yes	Yes	Snow cover mitigated -10C
	res		100	Tes	165	Show cover mugated -toc
	Yes Yes		-4.5C -6C	Yes No	Yes Yes	2 days of extended frost Doesn't flower
	Yes		-6C	No	Yes	Doesn't flower
	Yes		-6C	Yes	Yes	
	Yes Yes Yes Yes Yes	Over 2 years	-6C -8C -4.5C -6C -4.5C	Yes Yes No Yes	Yes Yes Yes Yes Yes	2 days of extended frost
	Yes		-6C	No	Yes	
	Yes		-4.5C	Yes	Yes	2 days of extended frost
	Yes Yes		-4.5C -6C	Yes	Yes	2 days of extended frost Dwindles. Too wet in winter?
	Yes		-6C	No	Yes	
	Yes		-7C	Yes	Yes	3 weeks between -1C and -7C
	Yes Yes		-4.5C -6C	Yes No	Yes Yes	2 days of extended frost
	res		-60	NO	res	
	Yes		-12C -6C -8C	Yes	Yes	
	Yes Yes Yes	Over 2 years	-6C -8C	Yes Yes Yes	Yes Yes Yes	
				No	Yes	
	Yes Yes		-6C -15C	140	Yes	
	Yes		-7C	Yes	Yes	2 weeks between -1C and -7C
	Yes		-6C	No	Yes	
	Yes Yes Yes Yes		-7C -6C -12C -6C	Yes No Yes No	Yes Yes Yes Yes	
						2 days of extended from
	Yes Yes Yes		-4.5C -4.5C -12C	Yes Yes Yes	Yes Yes Yes	2 days of extended frost 2 days of extended frost
	Yes		-12C	Yes	Yes	

Who? Where? Cardit, U.X. Feming, W. Sasses in a find poolet. 4C several highes per amum, 7C coldest so fer, with top 2cm sol fease which is v rare here. Previously lived in Binstall, W. Yokshine 100m above sea level; cool & dull, 10C most years and -15C for 3 days in 2010 Cardit, U.X. Cardit, U.X. Cardit, U.X. Cardit, U.X. George Elde George Elder Gregory Plenty George Plenty George Elder George Elder George Elder Gregory Plenty Helen Mount George Elder Michael Hughes Neil Hubbard Caster, U.K. Count, Watching 100m above sea level; cool & dul, 10C most years and 15C for 3 days in 2020 bit of Values Count, N. Watching 100m above sea level; cool & dul, 10C most years and 15C for 3 days in 2020 bit of Values Count, N. Watching 100m above sea level; cool & dul, 10C most years and 15C for 3 days in 2020 Count, N. Watching 100m above sea level; cool & dul, 10C most years and 15C for 3 days in 2020 Count, N. Watching 100m above sea level; cool & dul, 10C most years and 15C for 3 days in 2020 Count, N. Watching 100m above sea level; cool & dul, 10C most years and 15C for 3 days in 2020 Count, N. Watching 100m above sea level; cool & dul, 10C most years and 15C for 3 days in 2020 Count, N. Watching 100m above sea level; cool & dul, 10C most years and 15C for 3 days in 2020 Count, N. Watching 100m above sea level; cool & dul, 10C most years and 15C for 3 days in 2020 Count, N. Watching 100m above sea level; cool & dul, 10C most years and 15C for 3 days in 2020 Count, N. Watching 100m above sea level; cool & dul, 10C most years and 15C for 3 days in 2020 Count, N. Watching 100m above sea level; cool & dul, 10C most years and 15C for 3 days in 2020 Count, N. Watching 100m above sea level; cool & dul, 10C most years and 15C for 3 days in 2020 Count, N. Watching 100m above sea level; cool & dul, 10C most years and 15C for 3 days in 2020 Count, N. Watching 100m above sea level; cool & dul, 10C most years and 15C for 3 days in 2020 Count, N. Watching 100m above sea level; cool & dul, 10C most years and 15C for 3 days in 2020 Count, N. Watching 100m above sea level; cool & dul, 10C most years and 15C for 3 days in 2020 Count, N. Watching 100m above sea level; cool & dul, 10C most years and 15C for 3 days in 2020 Count, N. Watching 100m above sea level; cool & dul, 10C most years and 15C for 3 days in 2020 Count, N. Watching 100m above sea level; cool & dul, 10C most years and 15C f Gregory Plenty Neil Hubbard Neil Hubbard Neil Hubbard George Elde George Elder George Elder Michael Hughes Jeremy Spon Gregory Plenty Helen Mount Gregory Plenty Jeremy Spon Jeremy Spon Jeremy Spon Jeremy Spon Jeremy Spon George Elder Neil Hubbard Isle of Wight Near Birmingham, U.K. Cardiff, U.K. Barrow Upon Soar, Leicestershire, U.K. Candil U.K.
Candil U.K.
Wase Binnipatan U.K.
Wase B John Davies John Davies Gregory Pienty John Davies Neith Hubbard Neith Hubbard Neith Hubbard Neith Hubbard Heith Hubbard George Eiler John Davies Arstney Marphra Andrey Marphra Hohn Davies Heiten Mount Michael Hughes Paul Cumbleton Gregory Pienty Jenny Seny Pienty Jenny Seny Pienty Heiten Mount John Davies Michael Hughes Cregory Pienty Heiten Mount John Davies Gregory Pienty Heiten Mount John Davies Criccieth, N. Wales, U.K. Criccieth, N. Wales, U.K. Somerset, U.K. Cardiff, U.K. Uniforcian Ferring AS bases in a float pocket. Sc several nights per annum, -7C coldest to far, with top 2cm soil fezers which is v rare here. Previously level in Binstal, W. Yorkshire 100m above sea level; cosil & duit, 100C most years and -15C for 3 days in 2011 Ferring W. Susses in a float pocket. Sc several nights per annum, -7C coldest to far, with top 2cm soil fezers which is v, rare here. Previously level in Binstal, W. Yorkshire 100m above sea level; cosil & duit, 100C most years and -15C for 3 days in 2011 Careful UK. A scalar by Scalar is host pocket. 45 several nights per annum. +C coldest so far, with top 2on sol frazen which is v. nare here. Previously lived in Bissal, W. Yorkshire 100m above sea level; cool & dul, -10C most years and -15C for 3 days in 2010 live of Ways! New Diempigan, U.X. County U.X. usances. Non-Walkes U.K. Freemy W. Socies in a final point 40 Central highls per annum, -7C coldest so far, with top 2cm soll fizzen which is v. rare here. Previously lived in Binstall, W. Yokshim 100m above sea level; cool & duil, -10C most years and -15C for 3 days in 2010 Candit U.K. Lindeners. North Walkes, U.K. Robbie Bistickhall-Mile Gregory Plenty George Elder Robbie Blackhall-Mile Gregory Plenty John Davies Robbie Blackhall-Mile Cardiff U.K.
Labertin, Low
Vessex is a foot poolse. 4C several nights per annum, 7C coldests to far, with top 2cm sol frazen which is v. rare here. Previously level in Binsal, W. Yorkshire 100m above sea level; coal & d.d. -10C most years and -15C for 3 days in 2010
Perming, W. Suscex is a foot poolse. 4C several nights per annum, 7C coldest to far, with top 2cm sol frazen which is v. rare here. Previously level in Binsal, W. Yorkshire 100m above sea level; coal & d.d. -10C most years and -15C for 3 days in 2010
Perming, W. Suscex is a foot poolse. 4C several nights per annum, 7C coldest to far, with top 2cm sol frazen which is v. rare here. Previously level in Binsal, W. Yorkshire 100m above sea level; coal & d.d. -10C most years and -15C for 3 days in 2010
Perming, W. Suscex is a foot pool. 4C several nights per annum, 7C coldest to far, with top 2cm sol frazen which is v. rare here. Previously level in Binsal, W. Yorkshire 100m above sea level; coal & d.d. -10C most years and -15C for 3 days in 2010
Perming, W. Suscex is a foot pool. 4C several nights per annum, 7C coldest to far, with top 2cm sol frazen which is v. rare here. Previously level in Binsal, W. Yorkshire 100m above sea level; coal & d.d. -10C most years and -15C for 3 days in 2010
Perming, W. Suscex is a foot pool coal & coal was and -15C for 3 days in 2010
Perming, W. Suscex is a foot pool. 4C several nights per annum, -7C coldest to far, with top 2cm sol frazen which is v. rare here. Previously level in Binsal, W. Yorkshire 100m above sea level; coal & d.d. -10C most years and -15C for 3 days in 2010
Perming, W. Suscex is a foot pool. 4C several nights per annum, -7C coldest to far, with top 2cm sol frazen which is v. rare here. Previously level in Binsal, W. Yorkshire 100m above sea level; coal & d.d. -10C most years and -15C for 3 days in 2010
Perming, W. Suscex is a foot pool foot. 4C several nights per annum, -7C coldest to far, with top 2cm sol frazen which is v. rare here. Previously heed in Binsal, W. Yorkshire 100m above sea level; coa Gregory Plenty Gregory Plenty Gregory Plenty Gregory Plenty Hubbard Helen Mount Helen Mount George Elder Carson, U.X. Ferring W. Sussex is a frost pocket. -6-C several nights per annum, -7C coldest so far, with top 2cm sol frozen which is v. rare here. Previously lived in Birstall, W. Yorkshire 100m above sea level; cool & duil, -30C most years and -15C for 3 days in 2010 Lide of Wight Ferring W. Sussex is a frost pocket. -6C several nights per annum, -7C coldest so far, with top 2cm sol frozen which is v. rare here. Previously lived in Birstall, W. Yorkshire 100m above sea level; cool & duil, -30C most years and -15C for 3 days in 2010 Lide of Wight Gregory Plenty Helen Mount Gregory Plenty Helen Mount Lie of Wight Cametrus, Kent U.K. Cantell, U.K. Barrow Upon Soa, Leiosatenhine, U.K. Barrow Upon Soa, Leiosatenhine, U.K. Barrow Upon Soa, Leiosatenhine, U.K. Cantell, U.M. Walks, U.K. Cantell, U.M. Walks, U.K. Cantellus, Kent U.K. Cantellus, Kenk, Valles, U.K. Helen Mount Jeremy Spon George Eiker Neil Hubbard Nichael Hughes Robbie Blackhal-Miles Jeremy Spon Michael Hughes Helen Mount Michael Hughes John Davies Robbie Blackhal-Miles George Eiker Robbie Blackhal-Miles George Eiker Near Birmingham, U.K. Lianberis, North Wales, U.K. Cardiff, U.K. Lianberis, North Wales, U.K. Cardiff, U.K. Lianberis, North Wales, U.K. Cardiff, U.K. Canterbury, Kent, U.K. Isle of Wight Cardiff, U.K. Robbie Blackhal-Miles George Ekler George Ekler Robbie Blackhal-Miles George Ekler Michael Hughes Jørermy Spon George Ekler Jørermy Spon Helen Mount George Ekler Robbie Blackhal-Miles George Ekler Robbie Blackhal-Miles Iste of Wight Cardfil, U.K. Llanbers, North Wales, U.K. Cardfil, U.K. Barrow Upon Soar, Leicestershire, U.K. Cardfil, U.K. Cardfil, U.K. Cantell, U.K. Cantell, U.K. Barrow Upon Soar, Leicestershire, U.K. Barrow Upon Soar, Leicestershire, U.K. Christell, M. Wolke, U.K. George Elder Jeremy Spon George Elder Jeremy Spon Neil Hubbard Laminov (M. Sou, Licenstensing, U.K. Concent, N. Was, U.K. New Timmigham, U.K. Concent, N. Was, U.K. Karati, U.K. Ferming, W. Susses, na fost potent. 4C several nights par annum, 7C coldest so for, with top 2cm sol frazen which is v. rare here. Previously lived in Birstal, W. Yorkshire 100m above sea level; cool 4. dul, 40C most years and -15C for 3 days in 2010 for Vilying Conself, U.K. Earman U.M. Earman U. Neil Hubbard Michael Hughes John Davies Jereny Spon George Elder Gregory Pienty Helen Mount Helen Mount Helen Mount George Elder Neil Hubbard Robbie Blackhal-Miles Neil Hubbard

Hesperantha coccinea & cultivars Hesperantha cucultata Hesperantha cucultata Hesperantha hantamensis Hesperantha kanginata Nai dubia Nai lxia viridiflora Ina sufficio International anti-friendes Lachenella abtolynolise Lachenella abtolynolise Lachenella abtolynolise Lachenella conjesta Lachenella conjes Moraea figacissima Moraea gigandra Moraea gigandra Moraea huttonii Moraea macrocarpa Moraea macrocarpa Moraea martothii Moraea pendula Moraea polystacha Moraea pathula* Moraes spahulata Moraes spahulata Moraes spahulata Moraes totor Nerine bowdeni Nerine bowdeni Nerine bowdeni aba Nerine bowdeni aba Nerine bowdeni aba Nerine bowdeni Pakrica' Nerine bowdeni Pakrica' Nerine bowdeni Stefan' Nenne Englandian de la companya de l

Summer Winter Winter Winter Summer Winter Winter Winter Winter Winter Winter Winter Winter Unheated Unheated Yes Winter Wi Yes Yes Yes Yes Unheated Unheated Yes Yes Unheated coldframe Unheated coldframe Yes Yes Unheated Yes Yes Yes Unheated Unheated coldframe Yes Unheated coldframe Unheated coldframe Ves Yes Yes Unheated Unheated coldframe Unheated coldframe Unheated coldfame Unheated Unheated Yes Yes Yes Yes Yes Unheated Unheated Unheated Unheated Unheated Yes Unheated Unheated Winter Unheated Unheated Unheated Unheated Coldframe Unheated Winter Winter Winter Winter Summer Summer Summer Summer Summer Summer Winter Unheated Yes Yes Yes Yes Yes Unheated Unheated coldframe Unheated coldframe Unheated Unheated Unheated Unheated Yes Unheated Yes Unheated Unheated Unheated Unheated Yes Unheated Unheated

					Yes		-7C	Yes	Yes	17 weeks between -1C and -7C
	-7C				Yes	Over 2 years	-12C -8C	Yes	Yes Yes	
	-70	Yes	Yes		Yes	Over 2 years	-8C ?	Yes	Yes No	
				Name not found in literature	Yes		-7C -7C	Yes	Yes	
					Yes Yes	Over 2 years	-7C -8C	Yes	Yes	
	-5C -4.5C	Yes No	Yes Yes	G/H well insulated						
					Yes Yes Yes		-7C -7C		Yes Yes Yes Yes	
					Yes	Over 2 years	-7C -7C -8C	Yes	Yes	
	-3.6C -10C -10C	Yes Yes Yes	Yes Yes No	Fleeced on frosty nights						Survived but damaged - took a few years to fully recover
	-10C									
	-10C -5C -10C -10C -5C -3.6C	Yes Yes Yes Yes	Yes No Yes Yes							Survived but damaged - took a few years to fully recover
	-10C -10C	Yes Yes	Yes							Survived but damaged - took a few years to fully recover
	-5C	Yes	No Yes	Fleeced on frosty nights						
	-34C	Yes	Yes	Plunged in sand. Had 12inches of snow cover + fleece Plunged in sand. Polycarbonate sheet over if wet						
	-10C	Yes	Yes No	Damaged						
	-18C -10C -5C -10C -3.6C -10C	Yes Yes Yes Yes	No No Yes Yes	Fleeced on frosty nights						
	-10C	Yes	Yes	Preced on nosty rights						Survived but damaged - took a few years to fully recover
	-10C -5C	Yes Yes	No No		Yes		-4.5C	Yes	Yes	2 days of extended frost
	-34C -3.6C -34C -18C -10C -10C	Yes	Yes	Plunged in sand. Polycarbonate sheet over if wet Filesced on frosty nights Plunged in sand. Had 12inches of snow cover + fleece Plunged in sand. Polycarbonate cheat core if and	res		-4.5C	res	res	2 days or extended trost
	-3.6C -34C	Yes	Yes	Fleeced on frosty nights Plunged in sand. Had 12inches of snow cover + fleece						
	-18C -10C	Yes Yes Yes Yes Yes Yes	Yes Yes Yes No No	Plunged in sand. Polycarbonate sheet over if wet						
	-10C -10C -5C	Yes Yes Yes	No							
	-34C	Yes Yes Yes	No Yes Yes	Plunged in sand. Had 12inches of snow cover + fleece Plunged in sand. Polycarbonate sheet over if wet						
	-18C -5C	Yes Yes	Yes	Plunged in sand. Polycarbonate sheet over if wet						
	-5C	Yes Yes Yes	No No Yes							Survived but damaged - took a few years to fully recover
	-5C -5C -10C -3.6C -10C	Yes	Yes	Fleeced on frosty nights						
	-10C -10C	Yes	No No							
	-5C	Yes	No							Survived but damaged - took a few years to fully recover
	-10C	Yes Yes Yes Yes Yes No	No Yes No Yes Yes Yes							Survived but damaged - took a tew years to fully recover
	-3.6C ?	Yes	Yes	Elected on trosty nights Leaves recover from being frozen crisp						
	-10C -10C -3.6C ? ? -4.5C	No	Yes	Fleeced on frosty nights Leaves recover from being frozen crisp Some frost. Now heated G/H well insulated						
	-10C -4.5C	Yes No	Yes Yes	G/H well insulated						
	-4.5C	No	Yes	G/H well insulated						
	-10C -10C	Yes Yes	Yes	Damaged						
	-6C	No	Yes	Outdoors for summer	Yes	3 years	-6C	Yes	Yes	Both covered and uncovered for rain
	-5C	Yes	No		Yes	Over 2 years	-8C	Yes	Yes	
	-3C	Yes	Yes		Yes		-6C	No	Yes	
	110	Tes	res		Yes	Over 2 years	-6C	Yes Yes	Yes	
					Yes	Over 2 years	-8C -15C	res	Yes	
	-5C	Yes	Yes		Yes	Over 2 years	-8C	Yes	Yes	
	-5C -5C	Yes Yes	Yes Yes		Yes		-6C	Yes	Yes	
e	-6C -10C	Yes Yes	Yes Yes	Not fleeced	res		-60	res	res	
	-100	res	Yes		Yes	Over 2 years Over 2 years	-8C	Yes Yes	Yes	
					Yes Yes Yes Yes	Over 2 years Over 2 years Over 2 years	-8C -8C -8C -8C	Yes	Yes Yes Yes	
					Yes Yes Yes	Over 2 years	-8C -6C -7C	Yes	Yes Yes Yes	
	-5C	Yes	Yes	Damaged						
					Yes Yes Yes		-6C -6C -7C -8C -7C -7C	Yes No Yes Yes	Yes Yes Yes Yes	
					Yes	Over 2 years	-7C -8C	Yes Yes	Yes	4 weeks between -1C and -7C
					Yes		-7C -7C	Yes Yes	Yes	5 weeks between -1C and -7C 7 weeks between -1C and -7C
					Yes	Many years	-17C	Yes Yes	Yes	undulatum x bowdenii Died 2018 6 weeks between -1C and -7C
					Yes	Many years Over 2 years	-17C	Yes	Yes	Canada, + snow cover. Died 2018
	-3.6C	Yes	Yes	Fleeced on frosty nights			70			
	**	No	Yes	Outdoors for summer	Yes Yes	Over 2 years	-7C -8C	Yes	Yes	
	-6C -6C -6C	No	Yes	Outdoors for summer Outdoors for summer						
	-6C	Yes	Yes		Yes		-6C	Yes	Yes	
	-3.6C	Yes	Yes	Fleeced on frosty nights	Yes	Years	-6C -6C	Yes	Yes Yes	In a trough In a trough
	-5C	Yes	No		Yes			Yes		
	?	No	Yes	Some frost. Now heated	Yes		-6C	No	Yes	Doesn't flower
,	?	No	Yes Yes	Some frost	Yes		-2C	No	Yes	
	-5C	Yes			Yes				No	Eleeced when frosty. A few survived, most died
	-10C -10C	Yes Yes	Yes Yes							
	-10C	Yes	Yes		Yes				No	Fleeced when frosty. A few survived, most died
	-6C -10C	No Yes	Yes Yes							
	-6C -7C	No Yes	Yes							
	-10C	Yes	Yes		Var				No	Eleaned when fronty: A few survived most dive
	-50	Yes	No		Yes Yes				Yes	Fleeced when frosty. A few survived, most died Leaves died, bulbs OK
	-5C -5C	Yes	Yes							
	-6C -10C	No Yes	Yes Yes		Yes				No	Eleeced when frosty. A few survived, most died
	-5C	Yes	Yes							
					Yes		-6C -8C	No Yes	No Yes Yes	Fleeced when frosty. A few survived, most died
					Yes	Over 2 years	-8C	Yes	Yes	

Isle of Wight Barrow Upon Soar, Leicestershire, U.K. Near Birmingham, U.K. Barrow Upon Soar, Leicestershire, U.K. Near Birmingham, U.K. Neil Hubbard John Davies Paul Cumbletor Gregory Plenty Gregory Plenty John Davies Neil Hubbard read a timinguin, U.X. 4 Woldy Freming, W. Suttext is a frost pocket. 54C several nights per amum, -TC coldests so far, with top 2cm sol frozen which is v. rare here. Previously lived in Bitstall, W. Yorkshire 100m above sea level; cosi & dull, -10C most years and -15C for 3 days in 2010 Freming, W. Suttext is a frost pocket. 54C several nights per amum, -TC coldest so far, with top 2cm sol frozen which is v. rare here. Previously lived in Bitstall, W. Yorkshire 100m above sea level; cosi & dull, -10C most years and -15C for 3 days in 2010 New Emmingham, U.K. Bitsmu dyon Say, Lessenteihre, U.K. Jeremy Spon Gregory Plenty Gregory Plenty Gregory Plenty Contendary, form, U.K.
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Ferring W. Sussers in Bitsal, W. For 3 days are 2010
Fer John Davies Near Birmingham, U.K. Near Briningham, C.K. Isle of Wight Warwickshire, near Stratford on Avon Warwickshire, near Stratford on Avon Warwickshire, near Stratford on Avon Mawickshire, near Stratford on Avon Helen Mount Mark Preston Mark Preston Mark Prestor Wanackather, mes Statetion Avon Wanackather, mes Statetion Avon Wanackather, mes Statetion Avon Barrow Uppor Sour, Liesenschler, U.K. Barrow Uppor Sour, Liesenschler, U.K. Sater, neer Ann Anton, Michigan, U.S.A. (Norde later to Bowling Green, Kensucky) Bowling Green, Kensucky, U.S.K. Vind sammers, weters can be v.col but never for long periods States, neer Annoto, Michigan, U.S.A. (Norde later to Bowling Green, Kensucky) Bowling Green, Kensucky, U.S.K. Vind sammers, weters can be v.col but never for long periods Bowling Green, Kensucky, U.S.K. Vind sammers, weters can be v.col but never for long periods Bowling Green, Kensucky, U.S.K. Vind sammers, weters can be v.col but never for long periods Bowling Upperiods, Bardon G. Anon Wanackather, mes Statetion G. Anon Mark Preston Mark Preston Neil Hubbard Mark Preston Helen Mount Rimmer deVries Rimmer deVries Mark Preston Neil Hubbard Mark Preston Helen Mount Mark Preston Mark Preston Neil Hubbard Robbie Blackhall-Miles Wanakathin, mar Shafardi on Avon Barner lugon Son, Locestenshnik, U.K. Sallin, erse Arin Akous, Mahigan, U.S.A. (Movel later to Bowling Green, Kentucky) Isel on Vayat Sallin, and Arin Akous, Mahigan, U.S.A. (Movel later to Bowling Green, Kentucky) Sallin, and Arin Akous, Mahigan, U.S.A. (Movel later to Bowling Green, Kentucky) Barner Landon, U.S.A. V In Sammers, withins: Call the Vasian Markow Wanakathin, mar Shafardi on Avon Wanakathin, mar Shafardi on Avon Barner Lapon Saus, Lacestanshnik, U.N. Barner Lapon Saus, Lacestanshnik, U.N. Barner Lapon Saus, Lacestanshnik, U.K. Waakatahin, mar Shafardi on Avon Waakatahin, mar Shafardi on Avon Waakatahin, mar Shafardi on Avon Rimmer deVries Helen Mount Rimmer deVries Rimmer deVries Mark Preston Mark Preston Mark Preston Neil Hubbard Rimmer deVries Rimmer deVries Neil Hubbard Neil Hubbard Mark Preston Helen Mount Mark Preston Mark Preston Mark Preston Neil Hubbard Mark Preston Waterscher, werz Facher An Wolf,
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 Parting, W.S. Soak, a. & Altor point galax per annum, -7C coldest so for with tap 2m and hazen which is v rare here. Previously herd in Binstal, W. Yotehne 100m alone sea level, col & did, 10C most years and -15C for 3 days in 2020 Parting Mark Preston Mark Preston Helen Mount Paul Cumbleton Anthony Murphy Jeremy Spon Neil Hubbard Jeremy Spon Jeremy Spon Neil Hubbard Neil Hubbard Neil Hubbard Neil Hubbard Neil Hubbard Paul Cumbleton George Eider John Davies Neil Hubbard George Eider Neil Hubbard Michael Hughes John Davies Gregory Plenty Neil Hubbard John Davies Neil Hubbard Michael Hughes Neil Hubbard John Davies John Davies John Davies John Davies New Brondbarn UK Concents N Walks. UK Forms, W. Statust is a forst pool. 40 several mights per annum. -7C coldest so far, with top 2cm sol frazen which is v rare here. Previously lived in Binstal, W. Yorkshire 100m above sea livet; cool 4 duit, 10C most years and -15C for 3 days in 2020 For solution of the solutio John Davies Michael Hughes Gregory Plenty Neil Hubbard Michael Hughes George Elder Helen Mount John Davies Helen Mount John Weagle Helen Mount John Weagle Helen Mount Gregory Plenty John Davies George Elder George Elder George Elder George Elder Neil Hubbard Barnaru Upon Saar, Lecestanthine, U.K. tek el Vilghi Barnaru Upon Saar, Lecestanthine, U.K. Barnaru Upon Saar, Lecestanthine, U.K. Barnaru Upon Saar, Lecestanthine, U.K. Carditt, U.K. Nortak, U.K. Barnaru Upon Saar, Lecestanthine, U.K. Neil Hubbard Helen Mount Neil Hubbard Neil Hubbard George Elder Anthony Murphy Mike Read Anthony Murphy Neil Hubbard Rimmer deVries Neil Hubbard Neil Hubbard Rimmer deVrie: Neil Hubbard George Elder Neil Hubbard Barrow Upon Soar, Leicestershire, U.K. Barrow Upon Soar, Leicestershire, U.K. Bowling Green, Kentucky, USA. V. hot sum Barrow Upon Soar, Leicestershire, U.K. Barrow Upon Soar, Leicestershire, U.K. ters; winters can be v.cold but never for long perio Barrow Upon Star, Linestenthine, U.K. Caraff, U.K. Barrow Upon Star, Linestenthine, U.K. Barrow Upon Star, Linestenthine, U.K. Bowling Green, Kentucky, U.S.A. V. Into sammers; winters can be v.cdd but never for long periods Bowling Green, Kentucky, U.S.A. V. Into sammers; winters can be v.cdd but never for long periods Barrow Upon Star, Linestenthine, U.K. Caraff, U.K. Barrow Upon Star, Linestenthine, U.K. Neil Hubbard George Elder Neil Hubbard Rimmer deVries Rimmer deVries Neil Hubbard George Elder Neil Hubbard George Elder Neil Hubbard Rimmer deVries Neil Hubbard Rimmer deVries

Sparaxis elegans	Winter	Unheated	-5C	Yes	No								Neil Hubbard	Barrow Upon Soar, Leicestershire, U.K.
Sparaxis grandiflora	Winter	Yes	0C	No	No								George Elder	Cardiff, U.K.
Sparaxis grandiflora subsp. fimbriata	Winter						Yes		-7C		Yes		Gregory Plenty	Ferring, W. Sussex in a frost pocket5C several nights per annum, -7C coldest so far. with top 2cm soil frozen which is v. rare here. Previously lived in Birstall, W. Yorkshire 100m above sea level; cool & dull, -10C most years and -15C for 3 days in 2010
Sparaxis grandiflora violacea	Winter						Yes		-10C	Yes	Yes	Not flowered. Snow cover mitigated -10C	Jeremy Spon	Canterbury, Kent, U.K.
Sparaxis 'Hadeco hybrids'	Winter	Yes	-4.5C	No	Yes	G/H well insulated							Jeremy Spon	Canterbury, Kent, U.K.
Sparaxis tricolor	Winter							Over 2 years	-8C	Yes	Yes		John Davies	Near Birningham, U.K.
Spiloxene canaliculata	Winter						Yes	3 years	-6C	Yes	Yes		Paul Cumbleton	Somerset, U.K.
Tritonia crocata	Winter Winter	Yes	-4.5C -5C	No Yes	Yes	G/H well insulated							Jeremy Spon	Canterbury, Kent, U.K.
Tritonia florentiae Tulbaohia codii	Summer	Unheated Yes	-5C -3.6C	Yes	Yes	Fleeced on frosty nights							Neil Hubbard Helen Mount	Barrow Upon Soar, Leicestershire, U.X. Isle of Wight
Tubaghia comminsii	Summer	res	-3.0C	105	162	Pieeded on irosiy rights	Yes		-6C	No	Yes		George Elder	cardit, UK.
Tubaghia 'Fairy Star'	Summer	Yes	-3.6C	Yes	Yes	Fleeced on frosty nights	res		100	140	105		Helen Mount	Calouin, U.K.
Tubaghia galpinii	Summer	Yes	-3.6C	Yes	Yes	Eleeced on frosty nights							Helen Mount	Isle of Wight
Tulbaghia leucantha	Summer	Yes	-3.6C	Yes	Yes	Fleeced on frosty nights							Helen Mount	Isle of Wight
Tulbaghia montana	Summer						Yes		-6C	Yes	Yes		Michael Hughes	Criccieth, N. Wales, U.K.
Tulbaghia natalensis	Summer	Unheated Coldframe	-6C	Yes	Yes	Not fleeced							Michael Hughes	Criccieth, N. Wales, U.K.
Tulbaghia natalensis	Summer	Yes	-3.6C	Yes	Yes	Fleeced on frosty nights							Helen Mount	Isle of Wight
Tulbaghia 'Purple Eye'	Summer	Yes	-3.6C	Yes	Yes	Fleeced on frosty nights							Helen Mount	Isle of Wight
Tulbaghia simmleri	Summer	Yes	-6C	No	No								George Elder	Carditi, U.K.
Tulbaghia simmleri	Summer						Yes		-6C	Yes	No		Michael Hughes	Criccieth, N. Wales, U.K.
Tulbaghia violacea	Summer						Yes		-6C	Yes	Yes		Michael Hughes	Criccieth, N. Wales, U.K.
Tulbaghia violacea	Summer						Yes		-6C -7C	No	Yes		George Elder	Cardiff, U.K.
Tulbaghia violacea	Summer						Yes		-70	Yes	Yes	9 weeks between -1C and -7C	Helen Mount	Isle of Wight
Tulbaghia violacea Tulbaghia violacea 'John May Special'	Summer Summer						Yes		-7C	Yes	Yes	All died 10 weeks between -1C and -7C	Rimmer deVries Helen Mount	Bowling Green, Kentucky, USA. V. hot summers; winters can be v.cold but never for long periods Isle of Wight
Urginea (Drimia ?) undulata	Winter	Unheated	-50	Yes	Yes		res		-70	res	105	10 weeks between 10 and 10	Neil Hubbard	tae of wegint Barrow Upon Soar. Leicestershire, U.K.
Veltheimea bracteata	Winter	Officated	*5C	105	res		Yes		-7C		Alex		Gregory Plenty	ballow open solar, tentestensine; O.K. Ferring, W. Sussex in a forse pocket65 several nights per annum, -7C coldest so far, with top 2cm soil frozen which is v. rare here. Previously lived in Birstall, W. Yorkshire 100m above sea level; cool & duil, -10C most years and -15C for 3 days in 2010
Veltheima bracteata	Winter	Unheated Coldframe	-6C	Yes	Yes	Not fleeced	res		-70		NU		Michael Hughes	Pening, w. sussex in a nos pocte, the several ingrits per annum, the collection as that, with op zon so nozen which is v. rate nete. Hevidosy lived in Bissair, w. Torisine zoon adverse a revel, cool a dat, such rate net zoon so days in zoon of days in zo
Veltheimia bracteata	Winter	Yes	-3.6C	Yes	Yes	Fleeced on frosty nights							Helen Mount	Isle of Wight
Veltheimia capensis	Winter	Yes	?	Yes	No								Paul Cumbleton	At Wisley
Wachendorfia thyrsiflora	Winter						Yes		-6C	Yes	Yes		Michael Hughes	Criccieth, N. Wales, U.K.
Watsonia angusta	Summer						Yes		-6C	No	Yes		George Elder	Cardiif, U.K.
Watsonia flaccida?	Summer						Yes		-6C	No	Yes		George Elder	Cardiif, U.K.
Watsonia foucadei	Summer						Yes		-6C	No	Yes		George Elder	Cardill, U.K.
Watsonia laccata	Summer						Yes		-6C	No	Yes		George Elder	Cardiff, U.K.
Watsonia meriana	Summer						Yes		-7C	Yes	Yes	16 weeks between -1C and -7C	Helen Mount	Isle of Wight
Watsonia pillansii	Summer						Yes		-6C	Yes	Yes		Michael Hughes	Criccieth, N. Wales, U.K.
Watsonia pillansii	Summer						Yes		-4.5C	Yes	Yes	2 days of extended frost	Robbie Blackhall-Miles	Llanberis, North Wales, U.K.
Watsonia pillansii	Summer						Yes		-6C	No	Yes		George Elder	Cardiff, U.K.
Watsonia pilansii Watsonia pilansii	Summer Summer						Yes		-7C	Yes	Yes	Some individulas died but most survived	Gregory Plenty Paul Cumbleton	Ferring, W. Sussex in a frost pocket5C several nights per annum, -7C coldest so far. with top 2cm soil frozen which is v. rare here. Previously lived in Birstall, W. Yorkshire 100m above sea level; cool & dull, -10C most years and -15C for 3 days in 2010 At Wisley
Watsonia pilansi Watsonia sp. (evergreen)	Summer							Over 2 years	-80	Yes	NO		John Davies	At Watey Near Birningham, U.K.
Watsonia 'Tresco Dwarf Pink'	Summer						Yes	Over 2 years	-60	No	Ver		George Elder	veca bilingian, ox. Cardif, UK.
Watsonia 'Tresco Hybrid'	Summer						Yes		-4.5C	Yes	Yes	2 days of extended frost	Robbie Blackhall-Miles	Lanbers, North Wales, U.K.
Watsonia 'Tresco Pink'	Summer						Yes		-4.5C	Yes	Yes	2 days of extended frost	Robbie Blackhall-Miles	Lanbers, North Wales, U.K.
Watsonia versfeldii	Summer						Yes		-6C	No	Yes		George Elder	Cardiff, U.K.
Wumbea burtii	Summer	Yes	-6C	No	Yes	Outdoors for summer							George Elder	Cardiff, U.K.
Wumbea elatior	Summer	Yes	-6C	No	Yes	Outdoors for summer							George Elder	Cardiff, U.K.
Wumbea kraussii	Summer	Yes	-6C	No	Yes	Outdoors for summer							George Elder	Cardiif, U.K.
Wumbea stricta	Winter						Yes		-6C	No	Yes		George Elder	Carditi, U.K.
X Amarcrinum	Summer						Yes		-7C		Yes	Leaf damage at -10C in previous garden	Gregory Plenty	Ferring, W. Sussex in a frost pocketSC several nights per annum, -7C coldest so far. with top 2cm soil frozen which is v. rare here. Previously lived in Birstall, W. Yorkshire 100m above sea level; cool & dull, -10C most years and -15C for 3 days in 2010
X Amarcrinum memoria-corsii 'Howardii'	Summer	Yes	-3.6C	Yes	Yes	Fleeced on frosty nights							Helen Mount	Isle of Wight
X Amarcrinum memoria-corsii 'Howardii'	Summer						Yes		-7C	Yes	Yes	13 weeks between -1C and -7C	Helen Mount	List of Wight
X Amarine 'Aphrodite'	Summer						Yes		-6C	NO	Yes		George Elder	Cardiff, U.K. Island State of Control of Con
X Amarine 'Zwaneburg' X Amarine 'Zwaneburg'	Summer Summer	Yes	-3.6C	Yes	Yes	Fleeced on frosty nights	Yes		-7C	Yes	Yes	12 weeks between -1C and -7C	Helen Mount Helen Mount	Isle of Wight
X Amanne Zwaneburg X Amarygia	Winter						Yes		-70	165	Yes	Leaf damage every year but survives	Gregory Plenty	use or wight Ferring W. Sussex in a frost pocket5C several highly ber annum7C coldest so far, with too 2cm soil frozen which is v, rare here. Previously lived in Birstall. W. Yorkshire 100m above sea level: cool & duil10C most vears and -15C for 3 days in 2010
Zantedeschia aethiopica	Winter						Yes		-6C	Yes	Yes	Low damage every year out StillWes	Michael Hughes	Pening, w. sussex in a nos pocte, the several ingrits per annum, the collect so har, with op zon so nozen which is v. rate nete. Hevidosy lived in Bissair, w. Torisine zoon a day, such ross years and table for says in zoon of says in zoon
Zantedeschia aethiopica	Winter						Yes		-7C	Yes	Yes	17 weeks between -1C and -7C	Helen Mount	Lise of Winth
Zantedeschia pentlandii	Summer						Yes		-6C	Yes	Yes		Michael Hughes	Chicotth Nales, U.K.

In all, about 230 different species tried without heat (includes both outdoors and under glass) Of these, about 180 species survived without heat to some extent - this is almost 80% of those species tried

Other comments made:

By John Davies:

Its show that finally does for winter growers. They can take cold but cold physically touching them nather than cold air they don't like. I have then a but of SA bubs. Sime will surve the first warm and flower than does a surrate. Chiry those mentioned above have survived more than one year. My most constatempresses is in a han man start is not an internet of cold but the GA for themse constraints of cold but the survived more than one year.

By Jeremy Spon:

Poor flowering common in unheated glasshouse - could be due to low temperatures or low light levels (due to insulation) I suspect summer rainfall may be a problem for winter-growing bulos even here in the dry south-east.

Species under Unheated Glass					
Species	<u>Growth</u>	Min temp	Extended frost?	Survived?	Comment
Albuca humilis	Summer	-6C	No	Yes	Outdoors for summer
Albuca shawii	Summer	-6C	No	Yes	Outdoors for summer
Albuca shawii x humilis	Summer	-6C	No	Yes	Outdoors for summer
Androcymbium striatum	Summer	-6C	No	Yes	Outdoors for summer
Aristea ecklonii	Summer?	-6C	Yes	Yes	Not fleeced
Babiana blanda	Winter	-5C	Yes	No	
Babiana nana	Winter	-5C	Yes	No	
Babiana sambucina	Winter	-5C	Yes	Yes	
Babiana tubulosa	Winter	-5C	Yes	Yes	Damaged
Brunsvigia radulosa	Summer	-6C	No	Yes	Outdoors for summer
Chasmanthe bicolor	Winter	-4.5C	No	Yes	G/H well insulated
Chasmanthe floribunda	Winter	-4.5C	No	Yes	G/H well insulated
Chasmanthe sp.	Winter	-4.5C	No	Yes	G/H well insulated
Cyanella orchidiformis	Winter	-5C	Yes	No	
daubenya alba	Winter	-5C	Yes	Yes	Damaged
Daubenya aurea	Winter	-18C	Yes	Yes	Plunged in sand. Polycarbonate sheet over if wet
Daubenya aurea - red	Winter	-5C	Yes	Yes	
Daubenya aurea - yellow	Winter	-5C	Yes	No	
Daubenya aurea (red)	Winter	-6C	No	Yes	
Daubenya aurea (yellow)	Winter	-6C	No	Yes	
Daubenya spp	Winter	?	No	Yes	Some frost. Now heated
Daubenya zeyheri	Winter	-5C	Yes	Yes	
Eucomis autumnalis ssp amaryllidifolia	Summer	-6C	No	Yes	Outdoors for summer
Eucomis bicolor	Summer	-15C		No	Died in pot in unheated house at -15C
Eucomis bicolor alba	Summer	-15C		No	Died in pot in unheated house at -15C
Eucomis comosa	Summer	-15C		No	Died in pot in unheated house at -15C
Eucomis pole-evansii	Summer	-15C		No	Died in pot in unheated house at -15C
Eucomis regia	Winter	-6C	No	Yes	
Eucomis schijffii	Summer	-6C	No	Yes	Outdoors for summer
Freesia andersoniae	Winter	-5C	Yes	Yes	
Freesia fucata	Winter	-5C	Yes		Damaged
Freesia hybrids	Winter	-3.6C	Yes	Yes	Fleeced on frosty nights
Freesia lactea	Winter	-3.6C	Yes	Yes	Fleeced on frosty nights
Freesia leichtlinii	Winter	-3.6C	Yes		Fleeced on frosty nights
Freesia refracta	Winter	-3.6C	Yes	Yes	Fleeced on frosty nights

Geissorhiza corrugata	Winter	-6C	No	Yes
Geissorhiza inflexa erosa	Winter	-5C	Yes	Yes Damaged
Geissorhiza splendissima	Winter	-5C	Yes	Yes
Gladiolus cardinalis	Winter	-6C	Yes	Yes Not fleeced
Gladiolus carinatus	Winter	-4.5C	No	Yes G/H well insulated
Gladiolus carmineus	Winter	-6C	Yes	Yes Not fleeced
Gladiolus carmineus	Winter	-3.6C	Yes	Yes Fleeced on frosty nights
Gladiolus carneus	Winter	-6C	Yes	Yes Not fleeced
Gladiolus ecklonii	Summer	-6C	No	Yes Outdoors for summer
Gladiolus ferruginea	Summer	-6C	No	Yes Outdoors for summer
Gladiolus flanaganii	Summer	-6C	No	Yes Outdoors for summer
Gladiolus flanaganii	Summer	-6C	Yes	Yes Not fleeced
Gladiolus gracilis	Winter	-4.5C	No	Yes G/H well insulated
Gladiolus griseus	Winter	-4.5C	No	Yes G/H well insulated
Gladiolus huttonii x tristis	Winter	-4.5C	No	Yes G/H well insulated
Gladiolus 'Midnight Mist'	Summer	-4.5C	No	Yes G/H well insulated
Gladiolus ochroleucus	Summer	-6C	No	Yes Outdoors for summer
Gladiolus orchidiformis	Winter	-5C	Yes	Yes
Gladiolus parvulus	Summer	-6C	No	Yes Outdoors for summer
Gladiolus stefaniae	Winter	-4.5C	No	Yes G/H well insulated
Gladiolus stenosiphon	Winter	0C	No	No
Gladiolus 'Sweet Mystery'.	Winter	-4.5C	No	Yes G/H well insulated
Gladiolus tristis	Winter	-4.5C	No	Yes G/H well insulated
Gladiolus tristis	Winter	-3.6C	Yes	Yes Fleeced on frosty nights
Gladiolus watermeyeri	Winter	-5C	Yes	No
Hesperantha hantamensis	Winter	-7C	Yes	Yes
Ixia lutea	Winter	-5C	Yes	Yes
Ixia maculata	Winter	-4.5C	No	Yes G/H well insulated
Ixia viridiflora	Winter	-3.6C	Yes	Yes Fleeced on frosty nights
Lachenalia aloides	Winter	-10C	Yes	Yes
Lachenalia aloides	Winter	-10C	Yes	No Survived but damaged - took a few years to fully recover
Lachenalia arbuthnotiae	Winter	-10C	Yes	No Survived but damaged - took a few years to fully recover
Lachenalia bowkeri	Winter	-10C	Yes	Yes
Lachenalia bulbifera	Winter	-5C	Yes	No
Lachenalia congesta	Winter	-10C	Yes	Yes
Lachenalia contaminata	Winter	-10C	Yes	Yes
Lachenalia convallarioides	Winter	-5C	Yes	No Survived but damaged - took a few years to fully recover
Lachenalia ensifolia (Polyxena)	Winter	-3.6C	Yes	Yes Fleeced on frosty nights
Lachenalia ensifolia (Polyxena)	Winter	-34C	Yes	Yes Plunged in sand. Had 12inches of snow cover + fleece

Lachenalia ensifolia (Polyxena)	Winter	-18C	Yes	Yes	Plunged in sand. Polycarbonate sheet over if wet
Lachenalia juncifolia	Winter	-10C	Yes	No	Survived but damaged - took a few years to fully recover
Lachenalia karooportensis	Winter	-5C	Yes	Yes	Damaged
Lachenalia lactosa	Winter	-10C	Yes	No	
Lachenalia latimerae	Winter	-3.6C	Yes	Yes	Fleeced on frosty nights
Lachenalia latmerae	Winter	-10C	Yes	Yes	
Lachenalia liliflora	Winter	-10C	Yes	No	
Lachenalia liliflora	Winter	-5C	Yes	No	
Lachenalia longituba (Polyxena)	Winter	-34C	Yes	Yes	Plunged in sand. Polycarbonate sheet over if wet
Lachenalia luteola	Winter	-3.6C	Yes	Yes	Fleeced on frosty nights
Lachenalia maughanii (Polyxena)	Winter	-34C	Yes	Yes	Plunged in sand. Had 12inches of snow cover + fleece
Lachenalia maughanii (Polyxena)	Winter	-18C	Yes	Yes	Plunged in sand. Polycarbonate sheet over if wet
Lachenalia mediana	Winter	-10C	Yes	No	
Lachenalia mtuabilis	Winter	-10C	Yes	No	
Lachenalia namaquanum	Winter	-10C	Yes	No	
Lachenalia nardousbergensis	Winter	-5C	Yes	No	
Lachenalia odorata (Polyxena)	Winter	-34C	Yes	Yes	Plunged in sand. Had 12inches of snow cover + fleece
Lachenalia odorata (Polyxena)	Winter	-18C	Yes	Yes	Plunged in sand. Polycarbonate sheet over if wet
Lachenalia orchioides glaucina	Winter	-5C	Yes	No	
Lachenalia pusilla	Winter	-5C	Yes	No	
Lachenalia pustulata	Winter	-10C	Yes	Yes	Survived but damaged - took a few years to fully recover
Lachenalia quadricolor	Winter	-3.6C	Yes	Yes	Fleeced on frosty nights
Lachenalia rosea	Winter	-10C	Yes	No	
Lachenalia rubida	Winter	-10C	Yes	No	
Lachenalia stayneri	Winter	-10C	Yes	No	
Lachenalia trichophylla	Winter	-5C	Yes	No	
Lachenalia unifolia	Winter	-10C	Yes	Yes	Survived but damaged - took a few years to fully recover
Lachenalia viridiflora	Winter	-10C	Yes	No	
Lachenalia zeyheri	Winter	-3.6C	Yes	Yes	Fleeced on frosty nights
Masonia longipes	Winter	?	Yes	Yes	Leaves recover from being frozen crisp
Massonia 170 pots	Winter	?	No	Yes	Some frost. Now heated
Massonia depressa	Winter	-4.5C	No	Yes	G/H well insulated
Massonia jasminiflora	Winter	-10C	Yes	Yes	
Massonia 'jasminiflora'	Winter	-4.5C	No	Yes	G/H well insulated
Massonia longipes?	Winter	-4.5C	No	Yes	G/H well insulated
Massonia pustulata	Winter	-10C	Yes	Yes	
Massonia pygmaea	Winter	-10C	Yes	Yes	Damaged
Massonia roggeveldensis	Winter	-10C	Yes	Yes	
Massonia wittebergensis	Summer	-6C	No	Yes	Outdoors for summer

Moraea aristata	Winter	-5C	Yes	No	
Moraea ciliata	Winter	-7C	Yes	Yes	
Moraea elegans	Winter	-5C	Yes	Yes	
Moraea fugacissima	Winter	-5C	Yes	Yes	
Moraea gigandra	Winter	-5C	Yes	Yes	
Moraea lewisiae	Winter	-6C	Yes	Yes	Not fleeced
Moraea macrocarpa	Winter	-10C	Yes	Yes	
Moraea tricolor	Winter	-5C	Yes	Yes	Damaged
Nerine humilis	Winter	-3.6C	Yes	Yes	Fleeced on frosty nights
Nerine kreigii	Summer	-6C	No	Yes	Outdoors for summer
Nerine masoniorum	Summer	-6C	No	Yes	Outdoors for summer
Nerine undulata	Summer	-6C	No	Yes	Outdoors for summer
Oxalis massoniana	Winter	-3.6C	Yes	Yes	Fleeced on frosty nights
Polexena pygmaea	Winter	-5C	Yes	No	
Polyxena spp	Winter	?	No	Yes	Some frost. Now heated
Rhodohypoxis (150 forms)	Summer	?	No	Yes	Some frost
Romulea albiflora	Winter	-5C	Yes	Yes	
Romulea hallii	Winter	-10C	Yes	Yes	
Romulea hantamensis	Winter	-10C	Yes	Yes	
Romulea komsbergensis	Winter	-10C	Yes	Yes	
Romulea komsgergensis	Winter	-6C	No	Yes	
Romulea luteoflora	Winter	-10C	Yes	Yes	
Romulea monticola	Winter	-6C	No	Yes	
Romulea namaquensis	Winter	-7C	Yes	Yes	
Romulea obscura	Winter	-10C	Yes	Yes	
Romulea schlechteri	Winter	-5C	Yes	No	
Romulea subfistulosa	Winter	-5C	Yes	Yes	
Romulea subfistulosa	Winter	-6C	No	Yes	
Romulea syringodeoflora	Winter	-10C	Yes	Yes	
Romulea tetragona	Winter	-5C	Yes	Yes	
Sparaxis elegans	Winter	-5C	Yes	No	
Sparaxis grandiflora	Winter	0C	No	No	
Sparaxis 'Hadeco hybrids'	Winter	-4.5C	No	Yes	G/H well insulated
Tritonia crocata	Winter	-4.5C	No	Yes	G/H well insulated
Tritonia florentiae	Winter	-5C	Yes	Yes	
Tulbaghia codii	Summer	-3.6C	Yes	Yes	Fleeced on frosty nights
Tulbaghia 'Fairy Star'	Summer	-3.6C	Yes	Yes	Fleeced on frosty nights
Tulbaghia galpinii	Summer	-3.6C	Yes	Yes	Fleeced on frosty nights
Tulbaghia leucantha	Summer	-3.6C	Yes	Yes	Fleeced on frosty nights

Tulbaghia natalensis	Summer	-6C	Yes	Yes	Not fleeced
Tulbaghia natalensis	Summer	-3.6C	Yes	Yes	Fleeced on frosty nights
Tulbaghia 'Purple Eye'	Summer	-3.6C	Yes	Yes	Fleeced on frosty nights
Tulbaghia simmleri	Summer	-6C	No	No	
Urginea (Drimia ?) undulata	Winter	-5C	Yes	Yes	
Veltheimia bracteata	Winter	-6C	Yes	Yes	Not fleeced
Veltheimia bracteata	Winter	-3.6C	Yes	Yes	Fleeced on frosty nights
Veltheimia capensis	Winter	?	Yes	No	
Wurmbea burtii	Summer	-6C	No	Yes	Outdoors for summer
Wurmbea elatior	Summer	-6C	No	Yes	Outdoors for summer
Wurmbea kraussii	Summer	-6C	No	Yes	Outdoors for summer
X Amarcrinum memoria-corsii 'Howardii'	Summer	-3.6C	Yes	Yes	Fleeced on frosty nights
X Amarine 'Zwaneburg'	Summer	-3.6C	Yes	Yes	Fleeced on frosty nights

Species tried Outdoors					
Species	How long	Min temp	Extended frost?	Survived?	<u>Comment</u>
Albuca nelsonii		-7C		Yes	Not survived at -10C in previous garden
Albuca setosa		-7C		Yes	Needs some summer moisture
Albuca shawii		-6C	No	No	Too wet in winter?
Albuca shawii x humilis		-6C	No	No	Too wet in winter?
Albuca sp		-6C	No	Yes	
Amaryllis belladonna		-6C	No	Yes	
Amaryllis belladonna		-7C		Yes	Bad leaf damamage at -10C
Amaryllis belladonna		-7C	Yes	Yes	11 weeks between -1C and -7C
Babiana 'Kew Hybrids'		-7C		Yes	Leaf damage but survive & flower annually
Babiana virginea		-6C	No	Yes	Doesn't flower
Chasmanthe bicolor		-6C	Yes	Yes	
Chasmanthe bicolor		-7C		Yes	Almost evergreen
Chasmanthe floribunda		-7C		No	Leaves killed by slightest frost
Chasmanthe floribunda		-7C	Yes	Yes	Does not flower
Chasmanthe floribunda var. duckittii		-7C		No	Leaves killed by slightest frost
Chasmanthe sp.		-10C	Yes	No	
Crinum moorei		-6C	No	Yes	
Crinum powellii		-7C	Yes	Yes	8 weeks between -1C and -7C
Crinum powellii & alba	Over 2 years		Yes	Yes	
Crinum variabile		-6C	No	Yes	Doesn't flower
Cyrtanthus brachysiphon	Over 2 years	-8C	Yes	Yes	
Cyrtanthus falcatus	Over 2 years	-8C	Yes	Yes	
Cyrtanthus mackenii subsp. cooperi		-7C		Yes	Survives but does not flower
Daubenya aurea	Over 2 years		Yes	Yes	
Daubenya marginata	Over 2 years	-8C	Yes	Yes	
Dierama in variety	Over 2 years		Yes	Yes	
Dierama pulcherrima		-7C	Yes	Yes	14 weeks between -1C and -7C
Dierama pulcherrimum		-6C	Yes	Yes	
Dietes grandiflora		-6C	Yes	Yes	Damaged
Dietes iridioides		-6C	Yes	Yes	
Empodium flexile	4 years	-6C	Yes	No	
Eucomis bicolor	6 years		Yes		

Eucomis bicolor		-7C		Yes	
Eucomis bicolor alba		-7C		Yes	
Eucomis comosa		-10C	Yes	Yes	Snow cover mitigated -10C
Eucomis comosa		-6C	No	Yes	
Eucomis comosa		-7C		Yes	
Eucomis comosa 'Sparkling Burgundy'		-7C	Yes	Yes	15 weeks between -1C and -7C
Eucomis in variety	Over 2 years	-8C	Yes	Yes	
Eucomis montana		-6C	No	Yes	
Eucomis pole-evansii	4 years	-10C	Yes		
Eucomis pole-evansii		-4.5C	Yes	Yes	2 days of extended frost
Eucomis schijffii		-4.5C	Yes	Yes	2 days of extended frost
Eucomis vandermerwei	1 year	-7C		Yes	Didn't flower
Eucomis vanderwerwei	Over 2 years	-8C	Yes	Yes	
Eucomis zambesiaca		-4.5C	Yes	Yes	2 days of extended frost
Ferraria crispa		-7C		No	Survived -3C but not -7C
Ferraria crispa		-3C		Yes	But killed at -7C
Ferraria divaricata		-7C		No	Survived -3C but not -7C
Ferraria divaricata		-3C		Yes	But killed at -7C
Freesia laxa		-6C	No	Yes	
Freesia laxa		-7C		Yes	Hardy to -15C against a west wall
Freesia leichtlinii alba		-7C		Yes	
Galtonia candicans		-10C	Yes	Yes	Snow cover mitigated -10C
Gladiolus cardinalis		-4.5C	Yes	Yes	2 days of extended frost
Gladiolus cardinalis		-6C	No	Yes	Doesn't flower
Gladiolus dalenii		-6C	Yes	Yes	
Gladiolus dalenii	Over 2 years	-8C	Yes	Yes	
Gladiolus dalenii		-4.5C	Yes	Yes	2 days of extended frost
Gladiolus dalenii		-6C	No	Yes	
Gladiolus ecklonii		-4.5C	Yes	Yes	2 days of extended frost
Gladiolus flanaganii		-4.5C	Yes	Yes	2 days of extended frost
Gladiolus flanaganii		-6C	No	Yes	Dwindles. Too wet in winter?
Gladiolus Homoglad hybrids		-6C	No	Yes	
Gladiolus nanus cultivars		-7C	Yes	Yes	3 weeks between -1C and -7C
Gladiolus oppositiflorus		-4.5C	Yes	Yes	2 days of extended frost
Gladiolus oppositifolium ssp salmoneus		-6C	No	Yes	

Gladiolus tristis		-12C	Yes	Yes		
Gladiolus tristis		-6C	Yes	Yes		
Gladiolus tristis	Over 2 years	-8C	Yes	Yes		
Gladiolus tristis		-6C	No	Yes		
Gladiolus tristis		-15C		Yes		
Gladiolus tristis		-7C	Yes	Yes	2 weeks between -1C and -7C	
Gladiolus tristis x huttonii		-6C	No	Yes		
Gladiolus undulatus		-12C	Yes	Yes		
Gladiolus undulatus		-6C	No	Yes		
Gladiolus watsonioides		-4.5C	Yes	Yes	2 days of extended frost	
Hesperantha baurii		-4.5C	Yes	Yes	2 days of extended frost	
Hesperantha coccinea		-12C	Yes	Yes		
Hesperantha coccinea & cultivars		-7C	Yes	Yes	17 weeks between -1C and -7C	
Hesperantha cucullata		-12C	Yes	Yes		
Hesperantha cucullata	Over 2 years	-8C	Yes	Yes		
Hesperantha vaginata	Over 2 years	-8C	Yes	Yes		
Hypoxis cribbsii		?	Yes	No		
Ixia dubia		-7C		Yes		
Ixia flexuosa		-7C		Yes		
Ixia hybrids	Over 2 years	-8C	Yes	Yes		
Ixia maculata		-7C		Yes		
Ixia monadelpha		-7C		Yes		
Ixia paniculata		-7C		Yes		
Ixia viridiflora	Over 2 years	-8C	Yes	Yes		
Lachenalia longituba		-4.5C	Yes	Yes	2 days of extended frost	
Massonia saniensis	3 years	-6C	Yes	Yes	Both covered and uncovered for rain	
Merwilla plumbea	Over 2 years	-8C	Yes	Yes		
Moraea aristata		-6C	No	Yes		
Moraea collina		-6C	Yes	Yes		
Moraea collina	Over 2 years	-8C	Yes	Yes		
Moraea collina		-15C		Yes		
Moraea flacida	Over 2 years	-8C	Yes	Yes		
Moraea huttonii		-6C	Yes	Yes		
Moraea marlothii	Over 2 years	-8C	Yes	Yes		
Moraea ochroleuca	Over 2 years	-8C	Yes	Yes		

Moraea pendula	Over 2 years	-8C	Yes	Yes	
Moraea polystacha	Over 2 years	-8C	Yes	Yes	
Moraea spathulata		-6C	Yes	Yes	
Moraea spathulata		-7C		Yes	
Nerine bowdenii		-6C	Yes	Yes	
Nerine bowdenii		-6C	No	Yes	
Nerine bowdenii		-7C	Yes	Yes	4 weeks between -1C and -7C
Nerine bowdenii & alba	Over 2 years	-8C	Yes	Yes	
Nerine bowdenii alba		-7C	Yes	Yes	5 weeks between -1C and -7C
Nerine bowdenii 'Patricia'		-7C	Yes	Yes	7 weeks between -1C and -7C
Nerine bowdenii 'Pink Triumph'	Many years	-17C	Yes	Yes	undulatum x bowdenii Died 2018
Nerine bowdenii 'Stefani'		-7C	Yes	Yes	6 weeks between -1C and -7C
Nerine bowdenii var.wellsii	Many years	-17C	Yes	Yes	Canada, + snow cover. Died 2018
Nerine bowdenii 'Zeal Giant'	Over 2 years	-8C	Yes	Yes	
Nerine humilis (Breachiae Group)		-7C		Yes	
Nerine humilis (flexuosa) alba	Over 2 years	-8C	Yes	Yes	
Oxalis hirta		-6C	Yes	Yes	
Oxalis melanosticta	Years	-6C	Yes	Yes	In a trough
Oxalis pocockiae		-6C	Yes	Yes	In a trough
Polyxena ensifolia		-6C	No	Yes	Doesn't flower
Rhodohypoxis		-2C	No	Yes	
Romulea diversiformis				No	Fleeced when frosty. A few survived, most died
Romulea hirta				No	Fleeced when frosty. A few survived, most died
Romulea obscura				No	Fleeced when frosty. A few survived, most died
Romulea saldanhensis				Yes	Leaves died, bulbs OK
Romulea tabularis				No	Fleeced when frosty. A few survived, most died
Romulea tetragona				No	Fleeced when frosty. A few survived, most died
Romulea thodei		-6C	No	Yes	
Scadoxus multiflorus ssp katherinae	Over 2 years	-8C	Yes	Yes	
Sparaxis grandiflora subsp. fimbriata		-7C		Yes	
Sparaxis grandiflora violacea		-10C	Yes	Yes	Not flowered. Snow cover mitigated -10C
Sparaxis tricolor	Over 2 years	-8C	Yes	Yes	
Spiloxene canaliculata	3 years	-6C	Yes	Yes	
Tulbaghia comminsii		-6C	No	Yes	
Tulbaghia montana		-6C	Yes	Yes	

Tulbaghia simmleri		-6C	Yes	No		
Tulbaghia violacea		-6C	Yes	Yes		
Tulbaghia violacea		-6C	No	Yes		
Tulbaghia violacea		-7C	Yes	Yes	9 weeks between -1C and -7C	
Tulbaghia violacea				No	All died	
Tulbaghia violacea 'John May Special'		-7C	Yes	Yes	10 weeks between -1C and -7C	
Veltheimea bracteata		-7C		No		
Wachendorfia thyrsiflora		-6C	Yes	Yes		
Watsonia angusta		-6C	No	Yes		
Watsonia flaccida?		-6C	No	Yes		
Watsonia foucadei		-6C	No	Yes		
Watsonia laccata		-6C	No	Yes		
Watsonia meriana		-7C	Yes	Yes	16 weeks between -1C and -7C	
Watsonia pillansii		-6C	Yes	Yes		
Watsonia pillansii		-4.5C	Yes	Yes	2 days of extended frost	
Watsonia pillansii		-6C	No	Yes		
Watsonia pillansii		-7C		Yes	Some individulas died but most survived	
Watsonia pillansii		?	Yes	No		
Watsonia sp. (evergreen)	Over 2 years	-8C	Yes	Yes		
Watsonia 'Tresco Dwarf Pink'		-6C	No	Yes		
Watsonia 'Tresco Hybrid'		-4.5C	Yes	Yes	2 days of extended frost	
Watsonia 'Tresco Pink'		-4.5C	Yes	Yes	2 days of extended frost	
Watsonia versfeldii		-6C	No	Yes		
Wurmbea stricta		-6C	No	Yes		
X Amarcrinum		-7C		Yes	Leaf damage at -10C in previous garden	
X Amarcrinum memoria-corsii 'Howardii'		-7C	Yes	Yes	13 weeks between -1C and -7C	
X Amarine 'Aphrodite'		-6C	No	Yes		
X Amarine 'Zwaneburg'		-7C	Yes	Yes	12 weeks between -1C and -7C	
X Amarygia		-7C		Yes	Leaf damage every year but survives	
Zantedeschia aethiopica		-6C	Yes	Yes		
Zantedeschia aethiopica		-7C	Yes	Yes	17 weeks between -1C and -7C	
Zantedeschia pentlandii		-6C	Yes	Yes		
Other comments made:						

By John Davies:							
Its snow that finally does for winter growers. They can take cold but cold physically touching them rather than cold air they don't like.							
I have tried a lot of SA bulbs. Some will survive the first winter and flower then die off over summer. Only those mentioned							
above have survived more than one year.							
My most consistent growers live in a lawn than has no sun from end of October to End of February.							
Greatest flower number era and diversity is after burning with a blow torchMoraea and ixia all grow better in those years.							
By Jeremy Spon:							
Poor flowering common in unheated glasshouse - could be due to low temperatures or low light levels (due to insulation)							
I suspect summer rainfall may be a problem for winter-growing bulbs even here in the dry south-east.							