

Fleam Dyke species list – Flowering plants and ferns

Compiled by David J. Barden
Covering up to the end of 2009
Last updated 9 December 2012

Scientific name	Common name	Up to 1999		2000-2009 inclusive									Notes		
		All	Ref.	Section											
				1a	1b	1c	2a	2b	3	All	Ref.				
<i>Acer campestre</i>	Field Maple											P	JDS		
<i>Acer pseudoplatanus</i>	Sycamore	P	CFR, TBV, SL, BSBI, MW						P			P	P	JDS	Described as "very rare, clearly alien to the vegetation of the dyke" in 1911 (TBV). In section 1a, described as "locally frequent" in 1998; not noted since, but very likely to be present.
<i>Achillea millefolium</i>	Yarrow	P	CFR, TBV, SL, BSBI, MW	R					P			P	P	CFR, JDS, NL11	Described as "occasional" in 1911 (TBV).
<i>Aesculus hippocastanum</i>	Horse-chestnut	P	SL									P	P	JDS	
<i>Agrimonia eupatoria</i>	Common Agrimony	P	CFR, SL, BSBI, MW	LA					P				P	JDS, SH, NL11	Only in quantity at the water-pipe gap in section 1a (NL11), where it has greatly expanded in recent years (SH).
<i>Agrostis capillaris</i>	Common Bent	P	CFR, TBV, SL			?		?						?	Described as "rare" in sections 1b+c, and "occasional" in section 2a in 1998 (SL), but not noted since. Described as "local" in 1911 (TBV).
<i>Agrostis stolonifera</i>	Creeping Bent	P	SL			?			P				P	JDS	Described as "occasional to locally frequent" in section 1a in 1998 (SL), but not noted on that section since.
<i>Alliaria petiolata</i>	Garlic Mustard	P	SL, BSBI, MW			P						P	P	JDS	In section 2a, described as "occasional" in 1998 (SL), but not noted since.
<i>Anacamptis pyramidalis</i>	Pyramidal Orchid	P	CFR, TBV, MW						R				P	JDS, NL22, SH	Four seen in 2006 (NL22); three seen in flower in June 2008 (JDS); "a handful" in flower in 2009, only where the rabbits weren't grazing (SH). Described as "rare" in 1911 (TBV).
<i>Anagallis arvensis</i>	Scarlet Pimpernel	P	CFR, TBV						P				P	JDS	Described as "rare, clearly alien to the vegetation of the dyke" in 1911 (TBV).
<i>Anisantha sterilis</i>	Barren Brome	P	BSBI, MW			P						P	P	JDS	
<i>Anthemis cotula</i>	Stinking Chamomile	P	MW										E?		Only noted in 1981 (MW).
<i>Anthriscus sylvestris</i>	Cow Parsley	P	CFR, SL, BSBI, MW						P				P	JDS	
<i>Anthyllis vulneraria</i>	Kidney Vetch	P	CFR, GoC, TBV			R							P	SH	Only recently seen at top of 2nd set of steps SE of old railway (IW, communicated by SH), but not noted since; more may persist elsewhere but perhaps not favoured by rabbit-grazing (SH). Noted in 1909 (GoC), and described as "abundant" in 1911 (TBV).
<i>Aphanes arvensis*</i>	Parsley-piert	P	CFR										E		Described as "fallows, Fleam Dyke" in 1905 (CFR).
<i>Aquilegia vulgaris</i>	Columbine					P	P						P	JDS, DJB, BSBI	Numerous plants on Mutlow Hill and also on the bank of the dyke to the NW, with different flower colours (DJB). Very likely to have been introduced (there are no pre-2000 records, but it has been there "since 2003 at least" (JN)), and apparently spreading ("4 scattered plants" on Mutlow Hill in 2004 (DJB, BSBI)).
<i>Arabis hirsuta</i>	Hairy Rock-cress	P	CFR										E		Only one record, from "Fleam Dyke" from 1910s (CFR).
<i>Arctium lappa</i>	Greater Burdock					P							P	JDS	
<i>Arctium minus</i>	Lesser Burdock	P	CFR, SL, BSBI			P			P				P	JDS	Ssp. minus described as "quite frequent" in chalk grassland in 1989 (CFR).
<i>Arenaria serpyllifolia</i>	Thyme-leaved Sandwort	P	SL			?			P				P	JDS	Described as "rare to occasional" on sections 1b+c in 1998 (SL), but not noted there since.
<i>Arrhenatherum elatius</i>	False Oat-grass	P	CFR, TBV, SL, MW			P			P				P	JDS	Described as "local, mainly or exclusively in the ditch where the soil is deeper and not so dry" in 1911 (TBV).
<i>Artemisia vulgaris</i>	Mugwort	P	SL, BSBI, MW			P			P				P	CFR, JDS	
<i>Arum maculatum</i>	Lords and Ladies					P			P				P	JDS	
<i>Asperula cyanchica</i>	Squinancywort	P	CFR, TBV, SL, BSBI, MW			F		O					P	JDS, NL24, SH	In good quantity in section 1b, slowly petering out SEwards, and not reaching the summit (SH). Described as "abundant" in 1911 (TBV).
<i>Astragalus danicus</i>	Purple Milk-vetch	P	CFR, TBV, BSBI			?	R		O				P	SH	A total of 15 patches (clones) currently known on the whole dyke (SH). Described as "locally abundant" in 1911 (TBV).
<i>Atriplex patula</i>	Common Orache								P				P	JDS	
<i>Avena fatua</i>	Wild Oat	P	CFR, TBV										E		Described as "rare, clearly alien to the vegetation of the dyke" in 1911 (TBV) - this is the last record.
<i>Avenula pratensis</i> (Helictotrichon pratense)	Meadow Oat-grass	P	CFR, TBV, SL, BSBI	R	LF			LF					P	SH	Described as "locally subdominant" in 1911 (TBV).
<i>Avenula pubescens</i> (Helictotrichon pubescens)	Downy Oat-grass	P	CFR, BSBI	LA	F			R					P	JDS, SH	
<i>Ballota nigra</i>	Black Horehound	P	SL, BSBI, MW			P			P				P	CFR, JDS	
<i>Barbarea vulgaris</i>	Winter-cress												P	JDS	
<i>Bellis perennis</i>	Daisy	P	BSBI			P			P				P	JDS	
<i>Berberis vulgaris</i>	Barberry	P	CFR, BSBI						P				P	JDS	Known since 1987 in section 2b near Dungate Farm (CFR, BSBI).
<i>Betula pendula</i>	Silver Birch	P	CFR, TBV, SL, MW						P				P	JDS, SH	Described as "local, clearly alien to the vegetation of the dyke" in 1911 (TBV).
<i>Betula pubescens</i>	Downy Birch	P	TBV						P				P	JDS	Described as "local, clearly alien to the vegetation of the dyke" in 1911 (TBV).
<i>Brachypodium pinnatum</i>	Tor-grass	P	CFR, SL, MW			P			P				P	JDS, SH	Single patches in sections 1b and 2a; not seen elsewhere (SH).
<i>Brachypodium sylvaticum</i>	False Brome	P	TBV, SL, BSBI, MW			A			A		A		P	JDS, SH	Described as "local" in 1911 (TBV).
<i>Brassica nigra</i>	Black Mustard	P	TBV										E?		Described as "rare, clearly alien to the vegetation of the dyke" in 1911 (TBV).

Briza media	Quaking-grass	P	CFR, TBV, SL, BSBI, MW		R	P	P	P	P	P	JDS, SH, NL11	Only frequent in section 1b (SH). Described as "very abundant" in 1911 (TBV).		
Bromopsis erecta	Upright Brome	P	CFR, SL, BSBI		P	P	P	P		P	JDS			
Bromopsis ramosa	Hairy-brome	P	SL, MW							P	JDS			
Bryonia dioica	White Bryony	P	SL, BSBI, MW			P		P		P	JDS			
Buxus sempervirens	Box	P	CFR, SL, MW, NIC8						A	A	P	Planted.		
Buddleia davidii	Buddleia	P	SL					E?			E?	In section 2a, described as "rare" in 1998 (SL) - likely removed during scrub clearance?		
Campanula glomerata	Clustered Bellflower	P	CFR, TBV, SL, BSBI, MW		P	P	P			R	R	P	JDS, DJB, SH, IW, NL11	Appeared in abundance in section 1a in 2004 and 2005 (SH, DJB, NL11) following scrub clearance in 2003 (having been described as "rare to occasional" on this section in 1998 (SL)), but has since declined (SH, DJB). Surprisingly absent from section 2a: only one plant seen in section 2b, and six in section 3 (SH). Remarkably, one plant seen in flower on 3 Jan 2006 (IW). Described as "occasional" in 1911 (TBV).
Campanula rotundifolia	Harebell	P	CFR, TBV, SL, BSBI, MW		A	F	F	F	O	R		P	JDS, DJB, SH, NL11	Flowered in abundance in section 1a in 2004 and 2005 (DJB) following scrub clearance in 2003 (having been described as "rare to occasional" on this section in 1998 (SL)), but has since declined (DJB). Described as "occasional" in 1911 (TBV).
Campanula trachelium	Nettle-leaved Bellflower	P	CFR, SL, BSBI, MW								O	P		
Cannabis sativa	Cannabis					P						P	JDS	"One big, healthy plant in ditch" in 2008 (JDS).
Capsella bursa-pastoris	Shepherd's-purse	P	SL						P		P	P	JDS	
Carduus crispus	Wetted Thistle	P	SL			P						P	JDS	C. acanthoides has been split off from C. crispus, and was recorded as such in 1998 (SL).
Carduus nutans	Nodding Thistle	P	CFR, SL, BSBI, MW			P		P				P	JDS, NL7	Abundant on section 2a in 2002 (NL7)
Carex caryophylla	Spring-sedge	P	CFR, TBV, BSBI, NIC8			LA		LA				P	JDS, DJB, SH	First seen 1908 (CFR), and described as "occasional" in 1911 (TBV), but surprisingly few records thereafter (CFR, BSBI, NIC8) (perhaps due to its inconspicuousness when not in full flower?). It was abundant over small areas on sections 1b and 2a in 2009 (DJB); "a handful of patches" and "11 patches/clones" have been found in these sections, respectively (SH).
Carex ericetorum	Scarce Spring-sedge	P	CFR						E				E	Only seen twice, in 1965 and 1972 (CFR, MW). On the former occasion it was described as "near the foot of the S.W. facing slope of the vallum of Fleam Dyke, in a patch of short grassland (with little Bromus erectus), in the N.W. part of the Juniperus colony, 552.538. About 6 inflorescences scattered about 3 x 2 m" (CFR, MW). A likely remnant of the chalk heath once found in the area (see Ulex europaeus and Danthonia decumbens), lost when this part of the dyke scrubbed over.
Carex flacca	Glaucous Sedge	P	CFR, TBV, BSBI, MW		LA	A	P	A				P	JDS, SH	Abundant in section 1a only near the old railway, and not seen in section 2b (SH). Described as "abundant" in 1911 (TBV).
Carex hirta	Hairy Sedge	P	CFR										E	Not seen lately - a surprising absentee.
Carex pilulifera	Pill Sedge	P	CFR										E	First and only record: "Fleam Dyke nr Balsham" in the late 1800s (CFR). A remarkable record, given this species' strong preference for acid soils.
Carlina vulgaris	Carlina Thistle	P	CFR, TBV, SL, BSBI, MW		P	P		F				P	JDS, DJB, JN	In section 1a, one plant was seen near the Pumping Station in 2007 (JN). Described as "local" in 1911 (TBV).
Carpinus betulus	Hornbeam								P			P	JDS	Planted on S side of tree-covered section (JDS).
Centaurea nigra	Black Knapweed	P	TBV, SL, BSBI, MW		F	P	P	P	P	P		P	JDS, SH, NL11	Described as "abundant" in 1911 (TBV).
Centaurea scabiosa	Greater Knapweed	P	CFR, SL, BSBI, MW		F	P	P	P	P	P		P	JDS, NL7, SH, NL11	Two plants with pure white flowers, and one with pink flowers, seen in section 2a in 2001 (NL7). Described as "abundant" in 1911 (TBV).
Cerastium fontanum	Common Mouse-ear	P	CFR						P			P	JDS, TBV	Described as "occasional" in 1911 (TBV).
Chaenorhinum minus	Small Toadflax	P	CFR, TBV										E	Described as "rare" in 1911 (TBV). Present in arable set aside just NW of the NW end of the dyke in 2009, but not on the dyke itself (DJB).
Chaerophyllum temulum	Rough Chervil	P	SL, BSBI, MW			P			P			P	JDS	
Chamerion angustifolium	Rosebay Willowherb	P	CFR, SL			P			P			P	JDS	Described as "locally frequent" in sections 1b+c in 1998 (SL).
Chenopodium album	Fat-hen	P	MW						P			P	JDS	
Cirsium acaule	Ground Thistle	P	CFR, TBV, SL, BSBI, MW		R	LA			A			P	JDS, DJB, SH, NL11	Only locally abundant in section 1b (SH). Described as "occasional" in 1911 (TBV).
Cirsium arvense	Creeping Thistle	P	CFR, TBV, SL, BSBI			P			P			P	JDS	Described as "occasional, clearly alien to the vegetation of the dyke" in 1911 (TBV).
Cirsium vulgare	Spear Thistle	P	SL, BSBI, MW			P			P			P	JDS, DJB	
Clematis vitalba	Traveller's-joy	P	SL, BSBI, MW			P			P			P	JDS, DJB, SH	Dominant in the old railway, on Mutlow Hill, and elsewhere in the hedges (DJB), but the slopes of the dyke itself seem to be too harsh an environment for it to survive (SH).
Clinopodium acinos	Basil-thyme	P	CFR, TBV										E	Described as "rare" in 1911 (TBV) - this is the last record.
Clinopodium ascendens	Common Calamint	P	CFR										E	Last record 1915 (CFR).
Clinopodium vulgare	Wild Basil	P	CFR, SL, BSBI, MW		R	LA			R			P	JDS, SH, NI11	
Conium maculatum	Hemlock								P			P	JDS	
Convolvulus arvensis	Field-bindweed	P	SL, MW			P			P			P	JDS	
Coryza canadensis	Canadian Fleabane	P	SL						P			P	JDS	
Coryza sumatrensis	Guernsey Fleabane					P						P	JDS	
Cornus sanguinea	Dogwood	P	CFR										P	

<i>Corylus avellana</i>	Hazel	P	SL, MW						R	P	JDS, DJB	
<i>Crataegus monogyna</i>	Hawthorn	P	CFR, TBV, SL, BSBI, MW		P			P	P	P	JDS	Described as "locally abundant" in 1911 (TBV).
<i>Crataegus monogyna</i> x <i>laevigata</i>	A hybrid hawthorn							P		P	JDS	
<i>Crepis capillaris</i>	Smooth Hawk's-beard	P	CFR, TBV, SL, MW		P			P		P	CFR, JDS	Described as "occasional" in 1911 (TBV).
<i>Crepis vesicaria</i>	Beaked Hawk's-beard				P			P		P	JDS	
<i>Cynoglossum officinale</i>	Houndstongue	P	CFR, SL, BSBI, MW		P		F		P	P	CFR, JDS, DJB, NL11	Becoming a weed on disturbed soil, especially in section 2a following clearance/rabbit disturbance (DJB) but also following clearance in section 1a (NL11).
<i>Cynosurus cristatus</i>	Crested Dog's-tail				P					P	JDS	
<i>Dactylis glomerata</i>	Cocksfoot	P	CFR, TBV, SL, BSBI, MW		P			P	P	P	JDS	Described as "local, mainly or exclusively in the ditch where the soil is deeper and not so dry" in 1911 (TBV).
<i>Dactylorhiza fuchsii</i>	Common Spotted-orchid	P	CFR, TBV							E		Described as "very rare" in 1911 (TBV); last record 1932 (CFR).
<i>Danthonia decumbens</i>	Heath-grass	P	CFR				E?			E?		Seen on two occasions only: "base of ditch, 550.540 and 551.539, rare, vegetative", 1952 (CFR); and in 1975 (CFR).
<i>Daphne laureola</i>	Spurge-laurel	P	CFR					E?		E?		Last record from 562.529 in 1971 (CFR). Could still be present.
<i>Daucus carota</i>	Wild Carrot	P	CFR, TBV, MW							?		Described as "locally abundant" in 1911 (TBV), but last noted in 1981 (MW); likely still to be present.
<i>Deschampsia cespitosa</i>	Tufted Hair-grass				P					P	JDS	
<i>Diplotaxis tenuifolia</i>	Perennial Wall-rocket	P	CFR						E?	E?		Last record at 569.524 in 1979 (CFR).
<i>Dipsacus fullonum</i>	Teasel							P		P	JDS	
<i>Echium vulgare</i>	Viper's Bugloss	P	CFR, GoC, TBV							E		Noted in 1887 (CFR), 1909 (GoC), and described as "local" in 1911 (TBV) - this is the last record.
<i>Elymus caninus</i>	Bearded Couch	P	SL						P	P	JDS	Described as "occasional" in section 2a in 1998 (SL), but not noted here since.
<i>Elytrigia repens</i>	Common Couch								P	P	JDS	
<i>Epilobium hirtum</i>	Great Willow-herb	P	MW		P			P		P	JDS	
<i>Equisetum arvense</i>	Field Horsetail	P	BSBI							?		First and only record in 1995 (BSBI). Likely still to be present
<i>Erigeron acer</i>	Blue Fleabane	P	CFR, TBV					P		P	JDS	Described as "rare" in 1911 (TBV); then only seen in 1939 (CFR).
<i>Erophila verna</i>	Common Whitlow-grass	P	CFR				E?			E?		Last record from path near the Bedford Gap in 1953 (CFR).
<i>Euonymus europaeus</i>	Spindle	P	BSBI	O					P	P	JDS, DJB, SH	Scattered for the first ~350m from the NW end (SH); some spared during scrub clearance/management in 2009 (DJB).
<i>Eupatorium cannabinum</i>	Hemp-agrimony			R						P	JDS, IW	A small clump of this wetland plant was found on the edge of the path adjacent to a recently cleared area in 2006 (IW); a clump of plants at the side of the dyke in 2008 (JDS).
<i>Euphrasia pseudokernerii</i>	Chalk-hill Eyebright	P	CFR, TBV, SL, BSBI, MW		A		E			P	JDS, SH	In section 2, the last record was in 1965 (CFR). Part of a difficult group; records of "Euphrasia officinalis" from the early 1900s (CFR) refer to the aggregate (which includes <i>E. pseudokernerii</i>); this aggregate was described as "occasional" in 1911 (TBV) and "locally frequent" in section 1b in 1998 (SL). In 2007, plants at 5446.5456 (section 1b) were noted with "smaller flowers and different bracts to the <i>E. pseudokernerii</i> " (JDS), but it is not clear if these represent a different taxon.
<i>Fagopyrum esculentum</i>	Buckwheat		TBV, SL				E?			E?		Described as "very rare, clearly alien to the vegetation of the dyke" in 1911 (TBV); and "rare" in section 2a in 1998 (SL), but not noted since.
<i>Fagus sylvatica</i>	Beech	P	CFR, TBV, SL, BSBI, MW		P			P	P	P	JDS	Described as "very rare" in 1911 (TBV).
<i>Fallopia convolvulus</i>	Black-bindweed	P	MW					P		P	JDS	
<i>Festuca arundinacea</i>	Tall Fescue	P	CFR							E		Last record 1894 (CFR).
<i>Festuca gigantea</i>	Giant Fescue				P				P	P	JDS	
<i>Festuca ovina</i>	Sheep's Fescue	P	CFR, TBV, SL, BSBI	E?	A		A			P	JDS, SH	In section 1a, seen at 543.548 by T.C.E. Wells in April 1967 (CFR), and described as "locally frequent" here in 1998 (SL), but not definitely confirmed since despite extensive searching (SH). Described as "dominant" in 1911 (TBV).
<i>Festuca rubra</i>	Red Fescue	P	TBV, SL					P	P	P	JDS	Described as "local, under trees" in 1911 (TBV).
<i>Ficaria verna</i> (<i>Ranunculus ficaria</i>)	Celandine									P	JDS	
<i>Filipendula vulgaris</i>	Dropwort	P	CFR, GoC, TBV, SL, BSBI, MW	O	P		A	R		P	JDS, DJB, NL11, NL26, SH	11 patches in section 1a in 2003 (NL11); 15 patches in section 1a, concentrated near the Pumping Station (SH); one patch in 2b, near the Bedford Gap (SH), presumably also the same plant noted in 2005 (IW). Noted in 1909 (GoC), and described as "locally abundant, mainly or exclusively in the ditch where the soil is deeper and not so dry" in 1911 (TBV).
<i>Fragaria vesca</i>	Wild Strawberry	P	MW							E?		Seen only once, in 1981 (MW).
<i>Fraxinus excelsior</i>	Ash		SL, BSBI, MW		P			P	P	P	JDS	
<i>Fumaria officinalis</i>	Common Fumitory	P	CFR, TBV							E?		Seen in early 1900s (CFR), and described as "rare, clearly alien to the vegetation of the dyke" in 1911 (TBV)
<i>Fumaria parviflora</i> *	Fine-leaved Fumitory	P	MW							E?		Seen only once, in 1898 - described as "Fleam Dyke, nr railway" (MW).
<i>Galanthus nivalis</i>	Snowdrop					P				P	JDS, DJB	Planted underneath the beech tree next to Mutlow Hill (DJB).

<i>Linum catharticum</i>	Fairy Flax	P	CFR, TBV, GoC, SL, MW	R	LA	LF				P	JDS, JN, SH	In section 1a: In small quantity near the pipeline gap in 2009 (JN and SH). Noted in 1909 (GoC), and described as "locally abundant" in 1911 (TBV).
<i>Linum perenne</i> ssp. <i>anglicum</i>	Blue Flax	P	CFR, GoC, MW							E		First seen in 1872 (CFR); last definite record 1906 (CFR). Also noted in 1909 (GoC) and 1939 (EFC), but as these were likely based on historic data, they cannot be taken as solid evidence of presence at those dates.
<i>Lithospermum officinale</i>	Common Gromwell	P	CFR, SL, BSBI	F		F				P	JDS, DJB, NL11	
<i>Lolium perenne</i>	Perennial Rye-grass	P	BSBI, MW				P		P	P	CFR, JDS	
<i>Lotus corniculatus</i>	Bird's-foot Trefoil	P	CFR, TBV, SL, BSBI, MW	P	LF		O			P	JDS, SH	In section 1a, only seen close to the old railway (SH). Described as "abundant" in 1911 (TBV).
<i>Lycium barbarum</i>	Duke of Argyll's Teaplant									P	JDS	
<i>Luzula campestris</i>	Field Wood-rush	P	CFR							E		Last record 1939 (CFR). Probably associated with the more sandy ground on the SW slope of the vallum in section 2a.
<i>Mahonia aquifolium</i>	Mahonia	P	CFR, TBV, SL, BSBI, MW, NIC8		P		O	P	P	P	JDS, DJB	Planted and escaped. Described as "rare, clearly alien to the vegetation of the dyke" in 1911 (TBV). The status of a plant recorded as <i>M. aquifolium</i> x <i>M. repens</i> (JDS) is doubtful - it may just be a form of <i>M. aquifolium</i> rendered procumbent by repeated mowing, as in 2001 (CFR) and again more recently in section 2a (DJB).
<i>Malus pumila</i> (<i>Malus domestica</i>)	Apple				P			P	P	P	JDS, ACL	In section 2a, the tree in the area of junipers and the more SE'ly of the two large trees near the Bedford Gap have characters indicating origin from <i>M. domestica</i> , rather than <i>M. sylvestris</i> (ACL).
<i>Malus sylvestris</i> sens. lat.	Crab Apple	P	CFR, TBV, SL					P	P	P	JDS, DJB, ACL	In section 2a, the more NW'ly of the two large trees near the Bedford Gap is a "good" <i>M. sylvestris</i> (ACL, DJB). Var. <i>acerbae</i> was noted in 1903 and 1904 (CFR); the species was described as "very rare" in 1911 (TBV) (as <i>Pyrus malus</i>); subsp. <i>sylvestris</i> was seen in 1962 in section 2b at 557.534 (CFR). Three trees to the SE of Dungle Farm seem to be <i>M. sylvestris</i> , but one may be more intermediate; all need closer examination (ACL).
<i>Malva sylvestris</i>	Common Mallow	P	MW		P			P	P	P	JDS	
<i>Matricaria discoidea</i>	Pineapple-weed	P	MW					P	P	P	JDS	
<i>Medicago lupulina</i>	Black Medick	P	CFR, TBV, SL, MW		P			P		P	JDS	Described as "abundant" in 1911 (TBV); "rare-occasional" in section 2a in 1998 (SL).
<i>Mellilotus altissimus</i>	Tall Melilot	P	MW							E?		Only seen in 1983 (MW).
<i>Mercurialis perennis</i>	Dog's Mercury	P	MW							?		Only seen in 1981 (MW). Most likely present in section 2b or 3. A patch is present on the NW side of the A11, next to the footbridge (DJB), but this is not on the dyke for the purposes of these records.
<i>Minuartia hybrida</i>	Fine-leaved Sandwort	P	CFR, MW				E?			E?		First seen in 1953 on "open chalk grassland bank where the Fleam Dyke is interrupted, with Thesium etc., 557.533" (S.M. Walters, in CFR). However, a record from the card index of D.E. Coombe (CFR) notes: "Fleam Dyke, by the Bedford Gap, in much trodden, open turf among <i>Astragalus danicus</i> , <i>Thesium</i> & the commoner chalk plants, with <i>Erophila verna</i> . Found by Dr S.M. Walters on the excursion, 4.5.1953". Given the reference to Bedford Gap, it is likely that the former record is an error for 553.537, a grid reference perhaps more accurately rendered as 553.536, placing it just NW of the Bedford Gap. Then mapped by G. Halliday for the BSBI in 1956 (CFR), but no later records.
<i>Muscari neglectum</i>	Wild hyacinth	P	CFR, MW							E		Records from "Fleam Dyke" 1891-1907 (CFR, MW), but all later records are from the old rly cutting nearby, where it was last seen in 1946 (CFR).
<i>Mycelis muralis</i>	Wall Lettuce							P		P	JDS	
<i>Myosotis arvensis</i>	Field Forget-me-not	P	CFR, SL, MW		P			P	P	P	JDS	
<i>Narcissus</i> agg.	Daffodil				P				P	P	JDS	
<i>Neotinea ustulata</i> (<i>Orchis ustulata</i>)	Burnt-tip Orchid	P	CFR, MW	E						E		First seen in 1835: "abundant in the part next Fulbourn Moor"; "10 plants seen" in 1913; last record 1941 (CFR). Now extinct in Cams.
<i>Neottia ovata</i> (<i>Listera ovata</i>)	Twayblade	P	CFR							E		Only two records, one from 1882 (CFR), and another "Balsham end" in 1932 (CFR).
<i>Nepeta cataria</i>	Cat-mint	P	CFR, SL, BSBI, MW	P	P		P		P	P	JDS, DJB, NL11	Abundant on section 1a in 2004 following scrub clearance (DJB); has since declined (DJB).
<i>Odontites vernus</i>	Red Bartsia			P						P	MF	Noted growing among <i>clematis</i> in 2009 (MF)
<i>Onobrychis vicifolia</i>	Sainfoin	P	CFR, GoC, TBV, SL, BSBI, MW		LF					P	JDS, SH	Frequent near the old railway (SH, MF). Noted in 1909 (GoC), and described as "occasional" in 1911 (TBV). This is the low-growing native variety.
<i>Ononis repens</i>	Common Restharrow	P	CFR, MW				R	E		P	SH	In section 2b, the last record was in 1965 at 555.534 (CFR); next seen in section 2a in two places (SH).
<i>Ononis spinosa</i>	Spiny Restharrow	P	CFR, TBV							E		Described as "rare" in 1911 (TBV); this appears to be the last record.
<i>Ophrys apifera</i>	Bee Orchid	P	CFR, GoC							E		One unlocalised record from 1835 (CFR); described in 1909 as "...and here and there a bee orchis..." (GoC) - this appears to be the last record.
<i>Orobanche elatior</i>	Tall Broomrape	P	CFR							E		Last seen 1883 (CFR). A surprising absentee given the frequency of <i>Centaurea scabiosa</i> , its host plant.
<i>Orobanche minor</i>	Lesser Broomrape			R						P	SH	Only seen in small quantity on the Pumping Station section (SH).
<i>Orobanche picridis</i> (<i>Orobanche artemisiae-campestris</i>)	Oxtongue Broomrape	P	CFR							E		Seen only in 1878 and 1881 (CFR), though as these records were made by the same person, and no specimen was deposited, an error for <i>Orobanche minor</i> cannot be ruled out. Now extinct in Cams.
<i>Papaver argemone</i> *	Prickly Poppy	P	MW							E?		First and only record in 1881 (MW).

<i>Papaver hybridum</i>	Rough Poppy	P	TBV, MW						E?										Seen in two places in section 2a in 1991 (MW), but not since. Described as "very rare, clearly alien to the vegetation of the dyke" in 1911 (TBV).	
<i>Papaver rhoeas</i>	Common Poppy	P	CFR, TBV, SL				P		P						P	JDS		Described as "rare, clearly alien to the vegetation of the dyke" in 1911 (TBV).		
<i>Pastinaca sativa</i>	Wild Parsnip	P	CFR, TBV, SL, BSBI, MW		P	P	P	P	P	P								CFR, JDS, SH	Described as "locally abundant" in 1911 (TBV).	
<i>Pentaglottis sempervirens</i>	Green Alkanet														P	P	JDS			
<i>Petroselinum segetum*</i>	Corn Parsley	P	CFR													E		Last record 1903 (CFR). Now rare in the county away from the Ouse Washes.		
<i>Phleum bertolonii</i>	Smaller Cat's-tail	P	CFR, SL, BSBI			P			P									JDS		
<i>Phleum pratense</i>	Timothy	P	TBV						P									JDS	Described as "occasional" in 1911 (TBV).	
<i>Picea abies</i>	Norway Spruce	P	TBV, MW															JDS	Planted. Described as "rare, clearly alien to the vegetation of the dyke" in 1911 (TBV).	
<i>Picris hieracioides</i>	Hawkweed Ox-tongue	P	CFR, TBV, SL		R				E?									JDS, NL11, NL26	Described as "rare" in 1911 (TBV); 1 plant noted in section 1a in 2003 (NL11); in section 2a, described as "rare" in 1998 (SL) but not recorded since.	
<i>Pilosella officinarum</i>	Mouse-ear Hawkweed	P	CFR, TBV, SL, BSBI		R	LA			A									JDS, JN, SH	In section 1a, one good patch on Pumping Station section in 2007 (JN). Described as "very abundant" in 1911 (TBV).	
<i>Pimpinella saxifraga</i>	Lesser Burnet-saxifrage	P	CFR, TBV, SL, BSBI, MW		LF	LF		O	O	R	R							JDS, SH, NL11	Described as "locally abundant" in 1911 (TBV).	
<i>Pinus sylvestris</i>	Scots Pine	P	TBV, SL, BSBI, MW			R				P	P							JDS, DJB	Planted. Described as "locally abundant, clearly alien to the vegetation of the dyke" in 1911 (TBV); three "aged" trees were noted in section 1b in the 1950s (NL7); in sections (1b+1c) and (2b+3) it was noted as "rare" in 1998 (SL); one tree survived in section 1b in the 2000s but died in about 2009 (DJB).	
<i>Plantago lanceolata</i>	Ribwort Plantain	P	CFR, TBV, SL, BSBI, MW				P			P								JDS	Described as "abundant, mainly or exclusively in the ditch where the soil is not so dry" in 1911 (TBV).	
<i>Plantago major</i>	Great Plantain	P	SL, MW				P			P								JDS	In 1998, only seen in section 2a (SL), where it was described as "rare".	
<i>Plantago media</i>	Hoary Plantain	P	CFR, TBV, SL, BSBI, MW		R	A	R		A	O								JDS, SH	Described as "local, mainly or exclusively in the ditch where the soil is not so dry" in 1911 (TBV). Abundant at the pipeline gap in section 1a in 2003 (NL11).	
<i>Platanthera chlorantha</i>	Greater Butterfly-orchid	P	CFR, MW															E	Seen "near Balsham" in ~1860 (CFR) and 1890 (MW). Now very rare in the county.	
<i>Poa annua</i>	Annual Meadow-grass	P	SL				P			P								JDS		
<i>Poa pratensis</i>	Common Meadow-grass	P	SL				P											JDS		
<i>Poa nemoralis</i>	Wood Meadow-grass	P	CFR															P	JDS	
<i>Poa trivialis</i>	Rough Meadow-grass	P	SL, BSBI				P			P								P	JDS	
<i>Polygala vulgaris</i>	Common Milkwort	P	CFR, GoC, TBV, SL, BSBI		R	LA	R		F									P	JDS, SH	In section 1a, a single plant near the Fulbourn end, and in quantity only near the old railway (SH). Noted in 1909 (GoC), and described as "abundant" in 1911 (TBV). Dark blue, paler blue, and pink colour-forms are present (DJB).
<i>Polygonum arenastrum</i>	Equal-leaved Knotgrass									P								P	JDS	
<i>Polygonum rivivagum*</i>	Cornfield Knotgrass	P	MW															E?	Only seen in 1982, at 543.549 (MW) [perhaps referring to adjacent arable?].	
<i>Potentilla anserina</i>	Silverweed	P	CFR							P								P	JDS	
<i>Potentilla neumanniana</i>	Spring Cinquefoil	P	CFR		E	E												E	Seen in "P.7" [I think this refers to the part between the old railway and Mutlow Hill] in 1953 (CFR); and "nr Fulbourn" in 1965 (CFR). Known until 1992 on the West Wratting Road (a short distance from the A11 crossing). Seems to have been associated with chalk heath, and lost along with other characteristic species of this habitat (see <i>Ulex europaeus</i> and <i>Danthonia decumbens</i>). Now very rare in the county; possibly extinct.	
<i>Potentilla repens</i>	Creeping Cinquefoil									P								P	JDS	
<i>Poterium sanguisorba</i> ssp. <i>sanguisorba</i> { <i>Sanguisorba minor</i> ssp. <i>minor</i> }	Salad Burnet	P	CFR, TBV, SL, BSBI, MW		LF	LF			A	R								P	JDS, SH, NL11	Described as "locally subdominant" in 1911 (TBV).
<i>Primula veris</i>	Cowslip	P	CFR, TBV, SL, BSBI, MW, NIC8		P	P	P		LA	P	P							P	JDS, DJB, SH, NL11	Frequent in places along the whole dyke (DJB and SH). Described as "occasional, mainly or exclusively in the ditch where the soil is deeper and not so dry" in 1911 (TBV).
<i>Prunella vulgaris</i>	Self-heal	P	CFR, TBV, SL, MW		R					P								P	JDS, NL11	Described as "occasional" in 1911 (TBV).
<i>Prunus avium</i>	Wild Cherry	P	CFR, SL, MW				P				E?	E?						P	JDS	Seen in section 2b nr Dungate Fm (559.531) in 1962 (CFR); next noted as "rare" in sections 2 and 3 in 1998 (SL).
<i>Prunus cerasifera</i>	Cherry Plum									P								P	JDS	
<i>Prunus domestica</i>	Wild Plum						P											P	JDS	
<i>Prunus spinosa</i>	Blackthorn	P	CFR, TBV, SL, BSBI, MW				P			P								P	JDS	Described as "very rare" in 1911 (TBV).
<i>Pulicaria dysenterica</i>	Fleabane						P											P	JDS	"One plant on top of dyke" in 2008 (JDS); may have come in on cutting machinery (SH).

<i>Stellaria media</i>	Common Chickweed	P	CFR, TBV						P			P	JDS	Described as "occasional, clearly alien to the vegetation of the dyke" in 1911 (TBV).			
<i>Succisa pratensis</i>	Devil's-bit Scabious	P	CFR										E	Last record 1878 (CFR).			
<i>Tamus communis</i>	Black Bryony	P	SL, BSBI			P						P	P	JDS			
<i>Taraxacum officinale</i> agg.	Dandelion	P	SL, BSBI			P			P			P	P	CFR, JDS			
<i>Taraxacum cyanolepis</i>	A dandelion	P	CFR						?				?	First and only record at 550.540 in 1959 (CFR).			
<i>Taraxacum dahstedtii</i>	A dandelion	P	CFR										?	First and only record at 550.540 in 1959 (CFR).			
<i>Taraxacum ekmanii</i>	A dandelion	P	CFR									?	?	First and only record from wooded section S of Bedford Gap in 1967 (CFR).			
<i>Taraxacum fulviforme</i>	A dandelion	P	CFR						?				?	First and only record nr Mutlow Hill in 1967 (CFR).			
<i>Taraxacum gelertii</i>	A dandelion	P	CFR										?	First and only record S of A11 in 1967 (CFR).			
<i>Taraxacum lacistophyllum</i>	A dandelion	P	CFR										?	First and only record made in 1967 (CFR).			
<i>Taraxacum oxoniense</i>	A dandelion	P	CFR										?	First seen before 1839; and again "by Mutlow Hill" in 1967; and at 550.540 in 1953 (CFR). No other records.			
<i>Taraxacum rubicundum</i>	A dandelion	P	CFR										?	First and only record from Mutlow Hill in 1967 (CFR).			
<i>Taxus baccata</i>	Yew	P	CFR, TBV, SL, BSBI			P			P			P	P	JDS	May have been planted originally? Described as "very rare" in 1911 (TBV).		
<i>Teprosia integrifolia</i>	Field Fleawort	P	BFC, CFR, NHC (p.223), TBV, BSBI, MW	E	E?			O						P	CFR, JDS, DJB, IW	First seen before 1860 (BFC); then "N end of Fleam Dyke, sprinkled about" in 1879 (CFR); described as "occasional" in 1911 (TBV); "plentiful on Fleam Dyke" in 1949 (CFR). Seen in 1995 in section 1b at 545.544 (CFR, BSBI) but not since. Now only known from section 2a, where 15 flowering stems were found between the first and last Junipers (scattered beside path on top in very short turf) in 2001 (CFR); a few plants were seen in flower on 18 May 2005 (IW), and there remained a scattering of plants in 2009 (DJB).	
<i>Thalictrum minus</i>	Lesser Meadow-rue	P	CFR, TBV, SL, BSBI						LA	R	R			P	JDS, DJB, SH	In section 2a, present in quantity but not obvious because of rabbit grazing (SH); in section 2b, one plant not far from the Bedford Gap (SH); in section 3, one plant seen "SE of Dungate Farm, near Charterhouse Plantation, on footpath in wooded area (~565.527)" in 2004 (DJB). Described as "rare" in 1911 (TBV).	
<i>Thesium humifusum</i>	Bastard-toadflax	P	CFR, TBV, SL, BSBI			R			E					P	JDS, DJB	Long known in some quantity (over 30 plants in 2009 (MF)) over a small area in section 1b (CFR, JDS, DJB); it seems to have little power to spread. In section 2a, the last record was "by the Bedford Gap, in much trodden, open turf" in 1953 (CFR). Described as "very rare" in 1911 (TBV).	
<i>Thymus polytrichus</i>	Wild Thyme	P	CFR, NHC (p.223), GoC, TBV, SL, BSBI	LA	A			A						P	JDS, SH	In section 1a, only on the steps close to the old railway (SH). Described as "abundant" in 1911 (TBV).	
<i>Thymus pulegioides</i>	Larger Wild Thyme	P	CFR											E		Last record 1885 (CFR).	
<i>Torilis japonica</i>	Upright Hedge-parsley	P	SL, BSBI			P			P					P	JDS		
<i>Torilis nodosa</i>	Knotted Hedge-parsley	P	CFR											E		Last record 1903 (CFR).	
<i>Tragopogon pratensis</i>	Goatsbeard	P	CFR, TBV, SL			P								P	P	JDS	Described as "rare" in 1911 (TBV).
<i>Trifolium campestre</i>	Hop Trefoil	P	CFR, TBV											E			A surprising absentee. Described as "occasional" in 1911 (TBV, as <i>T. procumbens</i>).
<i>Trifolium dubium</i>	Lesser Yellow Trefoil								P					P	JDS		
<i>Trifolium pratense</i>	Red Clover	P	TBV, SL			P			P					P	P	JDS	One white-flowered plant seen in section 2a in 2008 (JDS). Described as "occasional" in 1911 (TBV).
<i>Trifolium repens</i>	White Clover	P	SL			P			P					P	P	JDS	In 1998, only noted in sections 1b+c, where it was described as "occasional" (SL).
<i>Tripleurospermum inodorum</i>	Scentless Mayweed	P	CFR, SL						P					P	P	JDS	
<i>Trisetum flavescens</i>	Yellow Oat-grass	P	SL			P	P	P	P	P				P	P	JDS, SH	
<i>Triticum aestivum</i>	Bread Wheat													P	P	JDS	
<i>Tussilago farfara</i>	Coltsfoot	P	BSBI											?			First and only record in 1991 (BSBI). Possibly still present
<i>Ulex europaeus</i>	Common Gorse	P	TBV, CFR											E			Described as "rare" in 1911 (TBV). Last record 1939 (CFR).
<i>Ulmus glabra</i>	Wych Elm								P					P	P	JDS	
<i>Ulmus procera</i>	English Elm													P	P	JDS	
<i>Urtica dioica</i>	Common Nettle	P	CFR, TBV, SL, BSBI			P			P					P	P	JDS	Described as "local, clearly alien to the vegetation of the dyke" in 1911 (TBV).
<i>Urtica urens</i>	Small Nettle								P					P	P	JDS	
<i>Valerianella dentata</i> *	Common Cornsalad	P	CFR											E			Last record 1903 (CFR).
<i>Verbascum nigrum</i>	Dark Mullein	P	CFR						P					P	CFG		
<i>Verbascum nigrum</i> x <i>V. thapsus</i>	A hybrid mullein	P	CFR						P					P	CFG, JDS		Noted in 2001 not far SE of the A11: "Scattered plants amongst colony of <i>V. thapsus</i> " (CFR).
<i>Verbascum thapsus</i>	Great Mullein	P	CFR, SL			P			P					P	JDS		
<i>Veronica chamaedrys</i>	Germander Speedwell	P	SL, BSBI			P			P					P	P	JDS	In 1998, only noted in section 2a, where it was described as "rare" (SL).
<i>Veronica hederifolia</i>	Ivy-leaved Speedwell								P					P	P	JDS	
<i>Veronica persica</i>	Common Field-Speedwell	P	CFR						P					P	P	JDS	Var. <i>ascheroniana</i> (Lehm.) was seen by H.E. Fox in 1865 (CFR).
<i>Viburnum lantana</i>	Wayfaring-tree	P	CFR, TBV, BSBI			P			P					P	P	JDS	Described as "very rare" in 1911 (TBV).
<i>Viburnum opulus</i>	Guelder-rose	P	SL, BSBI			P								P	JDS		Described as "rare" in section 2a in 1998 (SL), but not noted since.
<i>Vicia cracca</i>	Tufted Vetch	P	CFR, TBV			P			F					P	JDS, DJB		Often quite dwarfed on the top of the dyke in section 2a (DJB). Described as "rare" in 1911 (TBV).
<i>Vinca minor</i>	Lesser Periwinkle	P	CFR, NIC8									P	P	P	JDS		Introduced. Noted in section 2a in 1975 (NIC19, p. 8)
<i>Viola arvensis</i>	Field Pansy	P	CFR, SL						P					P	JDS		
<i>Viola arvensis</i> x <i>V. tricolor</i> *	A hybrid pansy	P	CFR											E			First and only record made in 1936 (CFR).
<i>Viola hirta</i> ssp. <i>calcareo</i>	Hairy Violet	P	CFR						P					P	DJB		Seen in 1932 and 1933 (CFR); then no records until 2009, when it was found in small quantity in one place (DJB).

<i>Viola hirta</i> ssp. <i>hirta</i>	Hairy Violet	P	CFR, BV, TBV, SL, BSBI, NIC8	F			A	F	O	P	JDS, DJB, SH	Doing very well in areas cleared of scrub; very variable, especially in section 2a (DJB). In section 1a, mostly towards the NW end (DJB); surprisingly absent from section 1b (DJB and SH). Described as "occasional" in 1911 (TBV). [Records of <i>Viola riviniana</i> from section 1a ("rare" in 1998 (SL); present in 2003 (NL11)) and of <i>Viola reichenbachiana</i> from section 2a ("abundantly in bloom" in 1964 (NIC8)) are most improbable given the habitat, and likely an error for this species; there are no earlier records of either species, and it has not been seen since].	
<i>Viola hirta</i> f. <i>rosea</i>	Hairy Violet	P	BV				R			P	DJB	First seen ~1910, then no records until 2009, when it was found in small quantity in two places (DJB).	
<i>Viola hirta</i> x <i>V. odorata</i>	A hybrid violet	P	CFR				P			P	JDS	In section 2a, one large patch seen in 2009 (DJB).	
<i>Viola odorata</i> var. <i>dumetorum</i>	Sweet Violet									F	P	DJB	At least as common as var. <i>odorata</i> on the SE end of the dyke (DJB).
<i>Viola odorata</i> var. <i>dumetorum</i> x. <i>V. odorata</i> var. <i>odorata</i>	Sweet Violet									P	P	DJB	Seen in 2007 at 562.528 (DJB).
<i>Viola odorata</i> var. <i>odorata</i>	Sweet Violet	P	CFR, SL, BSBI, NIC8	O		O	R	F	F	P	DJB, SH	In section 2a, was abundant just after the major scrub clearance in 2001 (SH), and was "all the way along" section 1a in 2003 (NL11), but must since have declined substantially in both sites, or been overtaken by other species (DJB).	
<i>Viola odorata</i> var. <i>subcarnea</i>	Sweet Violet			O						P	DJB	Present in small quantity at the cleared NW end of the dyke in 2009 (DJB).	