

GB 0440 AGB

John Innes Foundation Historical Collections

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John Innes Foundation Historical Collections

GB 440 AGB

A Gavin Brown Collection

c.1925-1984

Reference: GB 440 AGB

Title: A Gavin Brown Collection

Dates: c.1925-1987

Extent: 12.5 shelves (74 boxes, 40 vols., 5 small boxes, 6 loose items)

Level of Description: Fonds

Creator: Andrew Gavin Brown (1910 – 1987)

Biography:

Andrew Gavin Brown (always known as Gavin) was one of the few people whose career with the John Innes Institute spanned all three homes at Merton, Bayfordbury and Colney.

He was born in Montrose in 1910, and educated at Montrose Grammar. After gaining the requisite four years of practical experience (at Craigo House, Kincardineshire) he first came to the John Innes Horticultural Institute as an Exhibitioner (horticultural student) at Merton from 1930-1932, subsequently obtaining a post at Gosden House, Surrey, where his duties included caring for JIHI fruit seedlings grown there. In this way he came to the attention of MB Crane, and in 1935 he was appointed as Crane's Technical Assistant in the Pomology Department at Merton.

Under MB Crane's direction, Gavin Brown worked principally on incompatibility in cherries and other top fruits, with the associated genetical studies and breeding programme, and on tomato breeding. By 1950 he had risen in grade to Experimental Officer, and was effectively 'second in command' of the Pomology Department, doing most of the day-to-day work and recording of Crane's projects (assisted by L. Grecas and K.P. (Paddy) Dow, among others). When Crane retired in 1953, Brown took charge of the fruit breeding side of the department's work. He was Acting Head of the department from 1953-4 and again from 1967-8. Returning to his horticultural roots, he was also Curator from 1966 to 1970 – the work included fielding enquiries about the John Innes composts!

His main work was in apple breeding: besides continuing work on MB Crane's fruit selections (the 'Merton' varieties), from the 1950s onward he worked with North American fruit breeders to produce new varieties resistant to scab and mildew. The garden variety 'Gavin' was the first product of this work to be released. Alongside this, he studied the inheritance of characters such as flavour, vigour, and the length of the juvenile period in both apples and pears, and to a lesser extent in other fruits.

Gavin Brown's other interest was in ornamental plants. He collaborated with Hedley Williams in an investigation of interspecific incompatibility in *Lathyrus*, and when the Institute moved away from fruit breeding in the late 1960s, he turned his attention to flower breeding, in particular freesia and streptocarpus (Cape Primrose). The latter brought him

more general recognition than a lifetime's work in fruit breeding – an irony he was quick to appreciate.

His work in fruit breeding in general, and apples in particular, was recognised with the award of the Jones-Bateman Cup and Hogg Memorial Medal (1960), MBE (1971), and Veitch Memorial Gold Medal (1979). He also served on a number of committees relating to his fruit breeding expertise and interest in horticultural education, notably the National Fruit Trials Sub-Committee for Apples and Pears (from 1964) and Norfolk Education Committee (Norfolk School of Horticulture Sub-Committee) (from 1972). He was a Governor of Norfolk College of Agriculture and President of the Horticultural Education Association (1974). As a result of his work on apple scab and mildew resistance, he was closely involved with the predominantly North American Apple Breeding Co-operative, and in setting up a European equivalent under the auspices of EUCARPIA. Closer to home, he was involved with the John Innes Society throughout his career, serving at various times as secretary and treasurer, and latterly Chairman (1968-1971) and Vice-President 1972-1976.

Gavin Brown retired in September 1975 after 45 years association with JI. The major interest of his retirement was in alpinism: he was chairman of the Norfolk branch of the Alpine Gardens Society and had some success in showing. He died in 1987.

Administrative History:

Fruit breeding at the John Innes Institute was initially carried out in the Pomology Department (formally constituted 1937 under Morley Benjamin Crane). The name was changed to the Department of Plant Breeding during the tenure of Watkin Williams as head of department (1954-1961). In 1961 this became the Department of Applied Genetics, headed by KH Dodds (1961-1966) and D Roy Davies (1968-1994), during which period the focus of the department broadened and moved away from breeding as an end in itself.

Content:

The collection comprises correspondence, subject files, fruit seedling records, card indexes, draft papers and reprints, and photographic material relating to all aspects of AG Brown's work on fruit and flower breeding at JI. There is also a small collection of papers and ephemera (including photographs) relating to his personal life and interests.

Arrangement/ Appraisal:

The collection as found was very disorganised – probably due in part to the transfer of little-used records from Bayfordbury (and in some cases also from Merton), and to the cessation of fruit breeding after 1975. The long currency of some series has also caused considerable problems in determining provenance and arrangement. In case of doubt, the usual policy has been to keep items within the collection, this being the largest single archive from the department, and since AG Brown's career spanned so much of the fruit breeding work at the JI. A small amount of weeding has been done, mostly involving blank forms and ephemera.

The collection is arranged as follows:

AGB 1 Working Papers

1/1 Correspondence

1/2 Collected Papers

1/3 Seedling Records

1/4 Subject Files

AGB 1/5 Card files and indexes

1/6 Notebooks

AGB 2 Photographic Collections

AGB 3 Personal Papers and Ephemera.

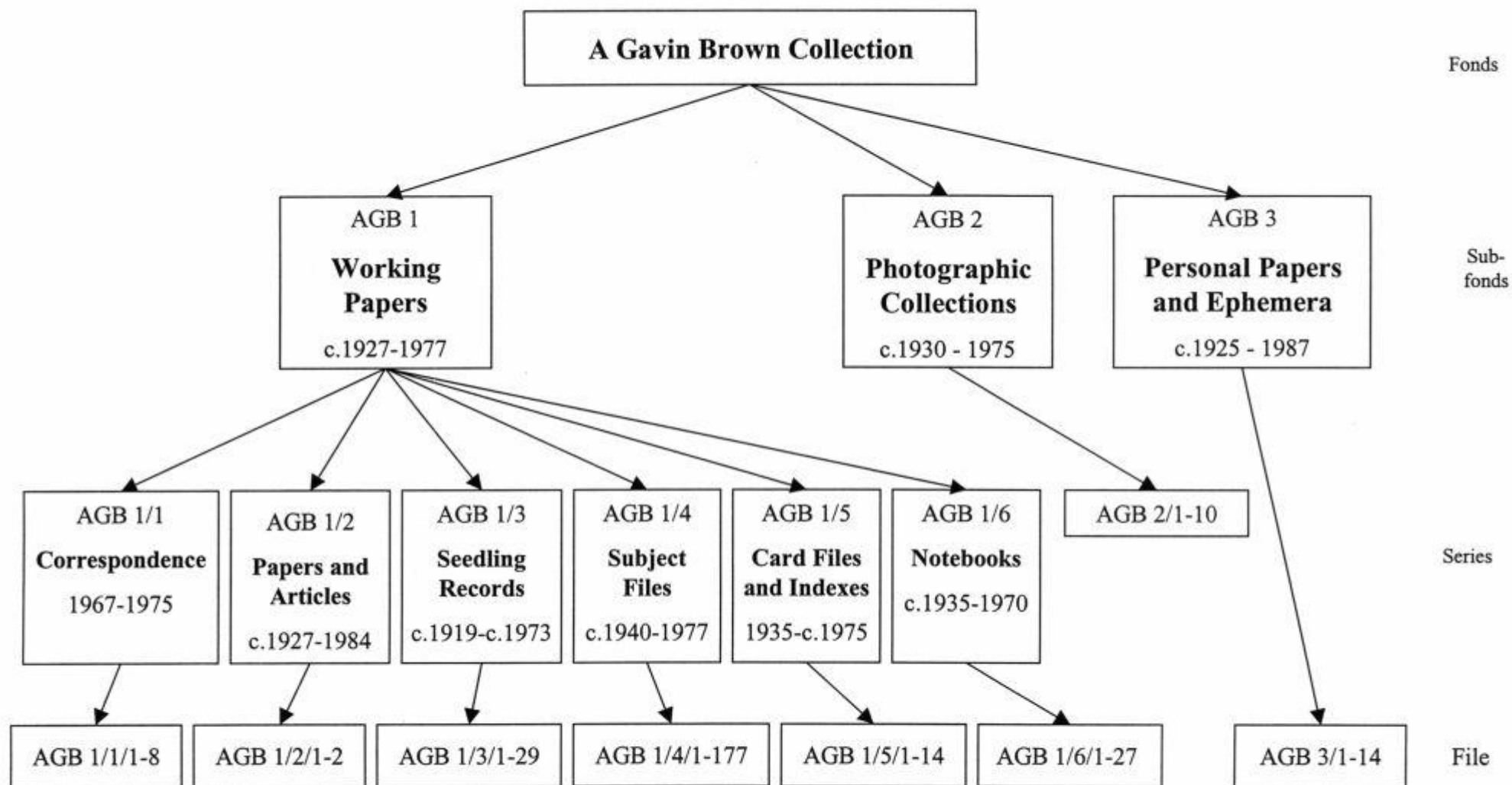
Source:

The majority of the collection was received directly from A Gavin Brown and subsequently from his widow Mrs W Brown in a number of accessions 1982-1992. Further material came from colleagues in Applied Genetics and in Horticultural Services.

Related Materials:

- Audio tape and transcript of Oral History interview with AG Brown
- Pollination records relating to AG Brown's work on incompatibility in top fruits under MB Crane (c.1914-1947). These are closely linked to the earlier seedling records for apple, plum and cherry (AGB 1/3/3, 14, 16)
- Policy files etc. by AG Brown as Acting Head of Department 1950s, 1960s.
- Later cherry breeding records are in the Peter Matthews Collection.

A Gavin Brown Collection: structure and major divisions



18 July, 2000

H:\A Gavin Brown\structure.ppt

Reference: GB 440 AGB 1/1

Title: A Gavin Brown Collection: Working Papers:
Correspondence

Creation Date: 1964-1979 (predominant 1967-1975)

Level of Description: Series

Extent: 7 files, index.

Content:

Correspondence relating to all areas of AG Brown's work, including as Curator (1966-1970)

Arrangement:

Items within each file are arranged in reverse chronological order as follows:

- 1/ Index
- 2/ 1964, 1967
- 3/ Jan 1968 – Oct 1968
- 4/ Nov 1968 – Mar 1969
- 5/ Apr 1969 - Apr 1970
- 6/ May 1970 - Apr 1972
- 7/ May 1972 – Sep 1974
- 8/ Oct. 1974 – 1975, 1979.

Related unit:

Earlier correspondence 1953-1966 is in the subject files (AGB 1/4/1-12). Prior to this, correspondence relating to Gavin Brown's work was probably included in MB Crane's records, which do not survive.

Reference: GB 440 AGB 1/2
Title: Collected Papers and Articles
Creation Date: c.1927-1984
Level of Description: series
Extent: 3 files

Content:

Papers, short articles and published letters etc. by or relating to A Gavin Brown.

Reference: AGB 1/2/1
Title: Collected Papers
Date: 1937-1984
Extent: 1 file
Content: Collected papers and major articles by A Gavin Brown (reprints, copies and typescripts). Also extracts from JI Annual Reports on AG Brown's work.
Finding aids: Includes index.

Reference: AGB 1/2/2
Title: Collected articles
Date: 1927 – c.1975
Extent: 2 pocket files
Content: Published letters and short articles by A Gavin Brown on a wide variety of horticultural subjects (especially from 'Gardening Illustrated' and 'Gardeners Chronicle'). Also press and journal reports about AG Brown, his work, and JI in general.
Finding aids: Includes index.

Reference:	GB 440 AGB 1/3
Title:	A Gavin Brown Collection: Working Papers: Seedling Records
Creation Date:	c.1919 – c.1973
Level of Description:	Sub-sub fonds
Extent:	29 files

Administrative History

A main series of record cards was kept for each species, with a separate card for each seedling, recorded over a number of years if at all promising. These cards give a detailed description of the fruit, but no information on the tree. Most have section drawings and/ or photographs of the fruit. Selections were made from these for further observation and National Fruit Trials and the relevant cards removed to a separate file. Records for those selections ultimately named and released were moved to a further file. In the case of apples and pears, a "museum" collection was maintained of material of continued interest but no commercial merit. Records were also kept of the fruit of existing cultivars, for comparison and planning of crosses.

The other type of seedling record, based on plot lists, has one line for each seedling and was used for field recording of characteristics such as disease resistance, vigour and flowering time, again, frequently over a number of years.

Content

Descriptions of fruit of individual seedlings and cultivars of apple, pear, plum, cherry and peach, including drawings, section drawings and/or photographs and slides. Score sheets for other characteristics.

Related materials

MB Crane/ Pomology Dept.: Pollination Records.
Later cherry seedling records are in the Peter Matthews Collection.

Note

Only selection and museum records survive for apple seedling nos. 486-c.2950, 8400-24,000

AGB 1/3/1-19**Descriptions of fruit****Reference:****AGB 1/3/1****Title:****Apple varieties A-Z**

Creation Date:

1950-1970

Extent:

1 file

Content:

Descriptions of fruit: cider, culinary and dessert apple cultivars. Also a few non-JI selections. File includes key to apple punch card system.

Arrangement:

The file is sub-divided as follows: 1. Cider apples, 2. Cooking and dessert apples, 3. Unnamed selections.

Reference:**AGB 1/3/2****Title:****Descriptions of apple cultivars**

Creation Date:

c 1935-1944

Extent:

3 volumes

Content:

Descriptions of varieties, with horizontal and vertical section drawings, some photographs of flowers and fruit.

1. A-G

2. H-Q

3. R-Y; cultivated crab apples; *malus*, *pyrus* species; Malling rootstocks.

Source:

Transferred from the scientific notebook collection.

Reference:**AGB 1/3/3****Title:****Apple Crosses**

Creation Date:

1921-1931

Extent:

1 box

Creator:

MB Crane

Content:

Descriptions of fruit: apple seedlings 1-485

Reference:**AGB 1/3/4****Title:****Apple Seedlings**

Creation Date:

1951-1962

Extent:

2.5 boxes

Content:

Descriptions of fruit: apple seedlings 2954-8364, 24108-26484.

Reference:**AGB 1/3/5****Title:****Shay apples: species crosses etc.**

Creation Date:

1959-1970 (predominant 1959-1964)

Extent:

1 file

Content:

Descriptions of fruit of scab-resistant seedlings received from North American fruit breeders. Includes some slides.

Related units:

Further records of Shay apple material are in AGB 1/4/2-4, 34-35.

- Reference:** **AGB 1/3/6**
Title: **Apples: Selected Seedlings**
Creation Date: 1929-1966 (predominant 1940-1966)
Extent: 1 file
Creator: A Gavin Brown, MB Crane, DM Harvey
Content: Descriptions of fruit of apple selections (seedling nos. 1-11,000). Also list of "apples in the JI Bayfordbury collection", with notes on those to be moved to Norwich. Includes 35mm slides of some selections.
- Reference:** **AGB 1/3/7**
Title: **Apples: scab resistant JI selections**
Creation Date: 1963-1971
Extent: 1 file
Content: Descriptions of fruit: JI apple selections from scab programme (seedling nos. 10678-11777, 33807-34219)
- Reference:** **AGB 1/3/8**
Title: **Merton Apples**
Creation Date: 1928-1970
Extent: 1 file
Content: Descriptions of fruit: named JI apples to 'Merton Knave' (except M. Pippin, Russet, Pearmain which are in AGB 1/3/9 below). Includes extracts from National Fruit Trial reports.
- Reference:** **AGB 1/3/9**
Title: **Apple Museum**
Creation Date: 1925-1965
Extent: 1 file
Creator: A G Brown, M B Crane
Content: Descriptions of apple selections (1-3000) in 'museum' collection, some with slides. Also notes on the collection.
- Reference:** **AGB 1/3/10**
Title: **Pear Varieties A-Z**
Creation Date: 1935-1966
Extent: 1 file
Content: Descriptions of fruit of pear cultivars, with section drawings, some photographs.
- Reference:** **AGB 1/3/11**
Title: **Pear Seedlings**
Creation Date: c.1950-1962
Extent: 2 boxes
Content: Descriptions of fruit: seedling nos. 1033-8248

- Reference:** AGB 1/3/12
Title: Pears: Selected Seedlings
 Creation Date: 1950-1969
 Extent: 1 file
 Content: Descriptions of fruit, some with slides.
- Reference:** AGB 1/3/13
Title: Pear Museum
 Creation Date: 1942-1965 (predominant 1950-1961)
 Extent: 1 file
 Content: Descriptions of pears in 'museum' collection, with section drawings. Also punch cards for museum seedling nos. 1-430.
- Reference:** AGB 1/3/14
Title: Plum seedlings and varieties.
 Creation Date: c.1919-1945
 Extent: 1 card file (2 boxes)
 Creator: MB Crane, AG Brown
 Content: Descriptions of fruit: plum seedlings 1-1502, 1-4163 and plum varieties A-Z, with drawings or photographs.
 Related Materials: See also Pollination records (MB Crane/ Pomology Dept.): seedling cards 2609-4163, varieties A-Z were found at the front of this file.
- Reference:** AGB 1/3/15
Title: Plum seedlings and varieties
 Creation Date: 1933-1962 (predominant 1950-1962)
 Extent: 1 box (3 files)
 Content: Descriptions of fruit: varieties, selections and seedlings (nos. 4075 – 6215)
 Arrangement: The files are arranged as follows: 1. Varieties A-Z, 2. Selections, 3. Seedlings.
- Reference:** AGB 1/3/16
Title: Cherry Seedlings
 Creation Date: 1920 - 1942
 Extent: 1 card file (2 boxes)
 Creator: MB Crane, AG Brown
 Content: Descriptions of fruit: cherry seedlings 1-2265, with drawings or photographs.

- Reference:** AGB 1/3/17
Title: Cherries: Pl. A. Varieties
Creation Date: 1929 – 1971
Extent: 1 card file
Creator: MB Crane, AG Brown, P Matthews
Content: Descriptions of fruit: selected cherry seedlings 10189-14724, varieties A-Z, JI 'Merton' cherries, seedlings 3046–14728 ("discarded"). This is a composite file containing several generations of record cards for some seedlings.
- Related material:** See also Pollination records (MB Crane/ Pomology Dept.). Most records of cherry breeding after c.1952 are in the Peter Matthews Collection.
- Reference:** AGB 1/3/18
Title: Peach Varieties A-Z. Seedlings.
Creation Date: 1956-1964
Extent: 1 file
Creator: DM Harvey
Content: Descriptions of fruit of peach varieties. Also seedlings 115-729, H9625-H20210, K79-72–K79-211. Information includes susceptibility to disease etc.
- Context Note:** AGB 1/3/18-19, 29 relate to a planned project to breed improved peach varieties for UK growing, to be undertaken by DM Harvey and in which AG Brown and P Matthews were involved. A large collection of cultivars was established, and initial crosses made, but conditions at Bayfordbury proved not to be ideal for peach growing and the project was dropped. (source: Peter Matthews, 2 Mar 2000)
- Source:** A Gavin Brown.
- Reference:** AGB 1/3/19
Title: Peach Seedling Fruit Records
Creation Date: 1966
Extent: 1 file
Creator: DM Harvey
Content: Descriptions of fruit: peach seedlings 13-554 (reverse order), including section drawings.
- Note:** Context: see note to AGB 1/3/18 above
- Reference:** AGB 1/3/20
Title: Apple Varieties: Season. List of Varieties Recorded
Creation Date: n.d. [c.1950-1962]
Extent: 1 notebook
Content: Lists of varieties and selections recorded: apple, plum, pear. Also key to colours used on record sheets.

AGB 1/3/21-29**Score Forms**

Reference: AGB 1/3/21
Title: Apple Record Sheets
Creation Date: 1951-1960
Extent: 4 bundles
Content: Plot lists of apple seedlings, scored for mildew, flavour, vigour and fruit quality.

Reference: AGB 1/3/22
Title: Apple Record Sheets
Creation Date: c.1959-1966
Extent: 51 bundles
Content: Plot lists of apple seedlings, scored for mildew, flavour, vigour and fruit quality.

Reference: AGB 1/3/23
Title: Apple Record Sheets
Creation Date: 1964-1973
Extent: 1 file
Content: Plot lists of apple seedlings, including North American selections, scored for mildew, scab and fruit quality. Also notes.

Reference: AGB 1/3/24
Title: Pear Record Sheets
Creation Date: 1959-1965
Extent: 1 file
Content: Plot lists of pear seedlings scored for pear scab, flowering, fruit quality. Also a few general notes.

Reference: AGB 1/3/25
Title: Pear Record Sheets
Creation Date: n.d. [c.1960]
Extent: 3 bundles
Content: Plot lists of pear seedlings, not scored.

Reference: AGB 1/3/26
Title: Pear and Apple Record Sheets
Creation Date: 1963-1964
Extent: 1 bundle
Content: Plot list of pear seedlings, scored for height, pigment, and apple seedlings, scored for vigour, mildew.

Reference: AGB 1/3/27
Title: Pear Record Sheets
Creation Date: n.d. [c.1968]
Extent: 1 bundle
Content: Plot lists of pear seedlings at Stanfield, not scored.

Reference: AGB 1/3/28
Title: Plum Record Sheets
Creation Date: c.1953-1960
Extent: 4 bundles
Content: Plot lists of plum seedlings (nos. 4790-6390), scored for colour, fruit quality.

Reference: AGB 1/3/29
Title: Peach Record Sheets
Creation Date: 1961-1964
Extent: 1 file
Content: Plot lists of peach seedlings, scored for flower type, disease susceptibility.
Related unit: See also AGB 1/3/18-19.
Note: For context, see note to AGB 1/3/18.

Reference: GB 440 AGB 1/4

Title: A Gavin Brown Collection: Working Papers:
Subject Files

Creation Date: c.1940-1977

Level of Description: Series

Extent: 177 files

Content:

Files on fruit breeding (apple, pear, cherry, rhubarb, tomato, pear-apple hybrid), flower breeding (freesia, streptocarpus, lathyrus), papers and publications (including unpublished book *Plant Breeding for Amateurs*), conferences attended, membership of committees, lists of species collections at JI, John Innes Society, and miscellanea re JII. Subject-organised correspondence, notes, drafts of papers.

Arrangement:

With a few exceptions (correspondence, conferences, flower breeding), there was little trace of any original order. The files have therefore been arranged in subject groups according to AG Brown's main areas of interest. A few items of minimal interest were discarded. 4 files relating to MB Crane's publications, and a further 9 relating to the department in general were transferred to the general fruit breeding collection.

Contents

AGB 1/4/1-12	<u>Correspondence</u>
AGB 1/4/13 -33	<u>Apple: general</u>
AGB 1/4/34-44	<u>Apple: scab and mildew</u>
AGB 1/4/45-54	<u>Pear</u>
AGB 1/4/55-63	<u>Other fruit</u>
AGB 1/4/64-68	<u>Fruit: General</u>
AGB 1/4/69-73	<u>Fruit: miscellaneous</u> (mostly apple, pear)
AGB 1/4/74-101	<u>Flower Breeding and Genetics</u>
AGB 1/4/102-119	<u>Conference Papers</u>
AGB 1/4/120-134	<u>Papers and Publications</u>
AGB 1/4/135-138	<u>Involvement with External Bodies</u>
AGB 1/4/139-141	<u>Talks, lectures</u>
AGB 1/4/142-145	<u>Species Collections</u>
AGB 1/4/146-148	<u>John Innes Society</u>
AGB 1/4/149-158	<u>JI: General</u>
AGB 1/4/159	<u>Reprints</u>
AGB 1/4/160-165	<u>Other research and horticultural institutions</u>
AGB 1/4/166-177	<u>Miscellaneous</u>

AGB 1/4/1-12**Correspondence files****Reference:****AGB 1/4/1****Title:****Index to Correspondence files****Date:**

1954-1966

Extent:

1 item

Reference:**AGB 1/4/2****Title:****Apple Scab****Date:**

1956-1966 (predominant 1956-1961)

Extent:

1 file

Content:

Correspondence with other breeders and researchers, notably L. Decourtye; Dr Hams (of Boots), re co-operative research into apple scab and collection of samples from across the UK.

Language:

a few items in French, German.

Finding aid:

Index AGB 1/4/1: A3 subject numbers

Reference:**AGB 1/4/3****Title:****[Apple correspondence, N America]****Date:**

1955-1966

Extent:

1 file

Content:

Correspondence with North American researchers re apple scab and mildew programme: exchange of samples, reporting of results. Also apple pigments and related interests; mention of work on peaches (1956).

Finding aid:

Index AGB 1/4/1: A3/A4 subject numbers

Reference:**AGB 1/4/4****Title:****Apple Scab. Shay****Date:**

1955-1966

Extent:

1 file

Content:

Correspondence between A Gavin Brown, EB Williams, J R Shay (Purdue University, Indiana) on co-operative research on Apple Scab. Includes arrangements for A.G. Brown's 1959 visit to North America, ms drafts of joint paper 'Concepts and problems in disease resistance in Tree Fruits' given by Brown and Shay at IX International Botanical Congress, 1959.

Related unit:

Diary containing notes from 1959 visit: AGB 1/6/11

Finding aid:

Index AGB 1/4/1: A3 subject numbers.

Reference:**AGB 1/4/5****Title:****Apple Breeding****Date:**

1959-1966

Extent:

1 file

Content:

Correspondence on scab and mildew resistance; also other apple interests. Includes correspondence with Petar Mišić, Yugoslavia, on anthocyanins in apple 1961-5.

Language:

a few items in French.

Finding aid:

Index AGB 1/4/1: A4 subject numbers.

Reference: AGB 1/4/6
Title: S.1. Scions In & Out
Date: 1953-1966
Extent: 1 file
Content: Correspondence with research institutes in France, Switzerland, USA, Germany, Sweden, Canada, Cyprus, Netherlands and elsewhere, re exchange of scions (mostly apple/ pear, also peach, rhubarb)
Language: some material in French, German
Finding aid: Index AGB 1/4/1: S1 subject numbers.

Reference: AGB 1/4/7
Title: Merton Varieties
Date: 1953-1965
Extent: 1 file
Content: Correspondence with growers and others, mostly on supply and problems with Merton apples (some other fruit).
Language: a few items in German.
Finding aid: Index AGB 1/4/1: A2 subject numbers.

Reference: AGB 1/4/8
Title: NFT
Date: 1952-1966 (predominant 1954-1966)
Extent: 1 file
Creator: A Gavin Brown, Watkin Williams.
Content: Correspondence with MAFF, East Malling, NFT Brogdale re National Fruit Trials – requests for material, progress of and opinions on selections etc. [much is Watkin Williams as Head of Department] Also Extracts of NFT Progress Reports 1951, 1952 relating to JI selections.
Finding aid: Index AGB 1/4/1: N1 subject numbers.

Reference: AGB 1/4/9
Title: East Malling
Date: 1953-1966
Extent: 1 file
Content: Correspondence with staff at East Malling. Mostly re apple breeding, also ribes, blackberry, cherry compatibility. Specific topics include viruses.
Admin. History: Extends beyond AG Brown's own projects, presumably reflecting position as effective head of fruit breeding side of work, and as Acting Head of Department 1953/4.
Finding aid: Index AGB 1/4/1: E1 subject numbers.

Reference: AGB 1/4/10
Title: [Out Letters]
Date: c.1953-1966
Extent: 1 file
Content: Copy out-letters from AGB. Also draft minutes and memoranda; series of letters from RHS re Fruit Group
Finding aid: Index AGB 1/4/1: Subject codes P, T, A, V, N, R.

Reference: AGB 1/4/11
Title: Old letters
Date: 1953-1959
Extent: 1 file
Content: Letters to and from AG Brown, Watkin Williams, KH Dodds (both as Head of Department): various topics covering Applied Genetics/ fruit breeding interests.
Finding aid: Index AGB 1/4/1: Subject numbers X, B, S2, A, AA, W (last two are not AG Brown's codes)

Reference: AGB 1/4/12
Title: General Correspondence/ Misc.
Date: 1954-1971
Extent: 1 file
Content: Subjects include tomatoes; ms of Spangelo & Watkins paper on apple breeding for 1967 World Exhibition, Montreal; AG Brown's membership of Herts. County Council Horticultural Sub-Committee (minutes etc.). Correspondence re award of Jones-Bateman cup 1961 and MBE, 1971.
 Pear-Apple hybrid: photocopy presscuttings 1954.
 Short report by AG Brown for RHS Journal [vol. 96, 1971] on new JI variety Columnea 'Fire Dragon'.
Finding aid: Index AGB 1/4/1: P6, T2, P4, H2 subject codes and unnumbered.

AGB 1/4/13-33

Apple (with parallel work on pears)

Reference: AGB 1/4/13
Title: [Anthocyanins in Apple]
Date: 1961
Extent: 1 file
Content: Letter from Petar D Mišić, with preliminary text of joint article.

Reference: AGB 1/4/14
Title: Mišić [Petar D Mišić]
Date: 1971
Extent: 1 file
Content: Draft article on anthocyanins in Cox Orange Pippin and sports (PD Mišić/ ŽV Tešović), with AG Brown's corrections; report on PD Mišić's visit to plant breeding institutions in USA, Canada, UK (including JII; mainly re raspberry breeding)

- Reference:** AGB 1/4/15
Title: Pigments
Date: 1960-1964
Extent: 1 file
Content: Score sheets, graphs, notes from literature on anthocyanins in apple wood, pears. Drawings showing pigmented cells in skin of various apple varieties; test results - levels of anthocyanin in apple and pear wood.
- Reference:** AGB 1/4/16
Title: Pigments: Pale Green Lethal in apple; Pale Green foliage in cherry, pear
Date: c.1957-1961
Extent: 1 envelope
Content: Notes, mostly on occurrence of pale green lethal mutation in apples.
- Reference:** AGB 1/4/17
Title: [Prediction of Fruit Flesh Colour in Progenies of the Cultivated Apple]
Date: 1962
Extent: 1 file
Content: Article and correspondence with N Gilbert (University of Edinburgh) re statistics.
- Reference:** AGB 1/4/18
Title: Fruit Flesh Colour
Date: 1970-1971
Extent: 1 file
Content: Annotated typescripts of AGB article 'The Prediction of Fruit Flesh Colour in progenies of the cultivated apple', submitted to *Horticultural Research*; with reader's comments.
- Reference:** AGB 1/4/19
Title: [Anthocyanins]
Date: n.d. [c.1960]
Extent: 1 file
Content: Notes and drafts for paper on red fleshed pears.
- Reference:** AGB 1/4/20
Title: Flesh Colour [and fruit flavour in apple]
Date: n.d. [aft 1961]
Extent: 1 file
Content: Notes and drafts for article 'Inheritance of Fruit Flavour and Flesh Colour in progenies of the cultivated apple' (3rd in series of articles for Euphytica)

- Reference:** AGB 1/4/21
Title: [apple flavour]
Date: n.d. [aft. 1958]
Extent: 1 file
Content: Drafts of paper on apple flavour and chromatography methodology
- Reference:** AGB 1/4/22
Title: Fruit Flavour
Date: c.1962-1964
Extent: 1 file
Content: Drafts of article on flavour in apples, with experimental results, graphs; description of chromatography methodology.
- Reference:** AGB 1/4/23
Title: Apple Genetics
Date: n.d. [c.1960-1970]
Extent: 1 file
Content: Notes and scoring: inherited characteristics, incl. russet skin, flavour, fruit shape. Graph showing cropping of Merton Worcester over 7 years. Tetraploid apple crosses. Apple seed size.
- Reference:** AGB 1/4/24
Title: Apples: Biennial Bearing
Date: 1961-1965
Extent: 1 file
Content: Abundance of flowering of named varieties and JI seedlings each year.
Note: Some varieties noted as 'information transferred to punch cards'
- Reference:** AGB 1/4/25
Title: Juvenility in Apples
Date: 1954-1961
Extent: 1 file
Content: Working notes and typescript article (AG Brown/ Don Smith) 'Juvenility in apples and pears'. Includes effect of mildew on age of bearing, literature review on effect of rootstocks.
- Reference:** AGB 1/4/26
Title: Effects of Polyploidy on vigour and length of juvenile period in apples
Date: 1950-c.1965
Extent: 1 file
Content: Tables of mean vigour for seedling families.

Reference: AGB 1/4/27
Title: Apple Vigour
Date: 1954-1962
Extent: 1 envelope
Content: Seedlings scored for vigour, mean vigour, with height graphs for selected crosses.

Reference: AGB 1/4/28
Title: Effect of inbreeding on vigour and length of juvenile period in apples
Date: c.1964 - [aft. 1970]
Extent: 1 file
Content: Typescript article with notes, drafts; reprint of T Visser 'On the Inheritance of the Juvenile Period in Apple' (*Euphytica* 14, 1965)

Reference: AGB 1/4/29
Title: *Phytophthora Cactorum* [Crown/ Collar rot of apple trees]
Date: 1960-1961
Extent: 1 file
Content: Score tables for infection of JI seedlings and rootstocks, with abstracts and notes from literature. Also 2 pp notes on % sugar/picking date for apple varieties.

Reference: AGB 1/4/30/1-2
Title: Red Spider
Date: 1936-c.1946 (predominant 1936-1937)
Extent: 1 file, 1 notebook
Content: Work on resistance of apple varieties and seedlings to red spider attack. Includes copy of JI Bulletin no 1 'Answers to Growers'

Reference: AGB 1/4/31
Title: Storage Trials
Date: 1969
Extent: 1 file
Content: Results of storage trials on apples Merton Joy, JI 11101 ['Gavin']. Also starch iodine test for picking date.

Reference: AGB 1/4/32
Title: NFT apple index
Date: Mar 1967
Extent: 1 item
Content: Index of cultivars and seedlings at National Fruit Trials.

Reference: AGB 1/4/33
Title: [Apple: miscellaneous]
Date: n.d. [c.1960-1965]
Extent: 3 items (found loose)
Content: List of references: illustrations and descriptions of apples; Season of flowering 1963 (pres. apple); Sclerenchyme bundles of 1 yr apple (N. Spy, Early Crimson, Beauty of Bath, Cox), n.d.

AGB 1/4/34-44**Apple Scab and Mildew**

Reference: AGB 1/4/34
Title: Shay Apples
Date: c.1955-1973
Extent: Contents of 2 arch files
Content: Descriptions and notes on scab-resistant apple selections received from North American breeders, filed by origin code. Information given includes description, origin and pedigree, mildew ratings, crosses made at JI and cross-reference to progeny also in breeding programme. Each file also contains general notes relating to the scab resistance breeding programme. Key to "Shay numbers" (JI inward numbers used in place of original designations).

Related unit: Descriptions of fruit of Shay selections are in AGB 1/3/5.

Reference: AGB 1/4/35
Title: Apple Scab
Date: c.1955-1975
Extent: 2 files
Content: Lists of North American crosses and scab resistant selections, with brief descriptions, notes on parentage, type of resistance, etc.

Reference: AGB 1/4/36
Title: Apple Mildew
Date: 1956-1966
Extent: 1 file
Content: Mildew resistance ratings of scab resistant apple selections, existing varieties and rootstocks, (mainly 1958-1961). List of varieties grouped by level of resistance. Typescript paper 'The Inheritance of Mildew Resistance in Progenies of the Cultivated Apple' and associated correspondence (submitted to *Journal of the Horticultural Society* 1958) with referees comments.

- Reference:** AGB 1/4/37
Title: Apple Scab
Date: 1955, 1961-1962
Extent: 1 envelope
Content: Records of infection in seedlings; draft paper; pedigree showing origin of scab resistance in North American selections.
- Reference:** AGB 1/4/38
Title: Tables of scab and mildew resistance in *malus* species and ornamental crab apples.
Date: n.d. [1955-1965]
Extent: 1 item
- Reference:** AGB 1/4/39
Title: [Apple: mildew resistance]
Date: n.d. [1955-1965]
Extent: 2 items
Content: Apple varieties grouped by mildew resistance; table of mildew resistance in *malus* species.
- Reference:** AGB 1/4/40
Title: Apple Scab. Hough. Ottawa. Dayton.
Date: 1959-1961
Extent: 1 file
Content: 3 letters from AWS Hunter and Lloyd Spangelo of Genetics & Plant Breeding Research Institute, Ottawa. Short paper 'Shortening of the Juvenile Stage of Apple Seedlings', describing procedures in experiment at Dept. Horticulture, Macdonald College, under CD Taper.
- Reference:** AGB 1/4/41
Title: [Apple and Pear Scab]
Date: 1913, 1951
Extent: 1 file
Content: Descriptive bibliography 'Scab Disease of Apples' (Cornell University, Bulletin 335, Sept. 1913. Annotated typescript report: WR Stanton 'Studies in *Venturia Pirina*. Greenhouse inoculation experiments for 1951')
- Reference:** AGB 1/4/42
Title: Breeding apples resistant to apple scab and mildew
Date: n.d. [1971?]
Extent: 2 exhibition captions
Content: Pedigree showing use of *malus* to improve resistance of cultivated apples.

Reference: AGB 1/4/43
Title: The Supper at Emmaus
Date: n.d.
Extent: 1 item
Content: Postcard of painting by Caravaggio (1573-1610), with Brown's note on this as earliest known illustration of apple scab.

Reference: AGB 1/4/44
Title: Miscellanea re scab/ mildew programme
Date: n.d. [c.1960-1975]
Extent: 5 items

AGB 1/4/45-54

Pear

Reference: AGB 1/4/45
Title: Pear
Date: 1939-1948 and n.d. [1950-1960?]
Extent: 1 file
Content: Tables and graphs of fruit shape and size (established pear varieties).

Reference: AGB 1/4/46
Title: Pear
Date: n.d. [1950-1960]
Extent: 1 file
Content: Score sheets and other working notes on fruit size. Also flesh and skin colour.

Reference: AGB 1/4/47
Title: Pear Fruit Shape Inheritance
Date: 1961-1962
Extent: 1 file
Content: Comparison outline drawings of JI pear seedlings.

Reference: AGB 1/4/48
Title: MS paper 'Genetical Studies in Pears V: Red Mutants'.
Date: n.d. [aft. 1961]
Extent: 1 item

Reference: AGB 1/4/49
Title: Pears: Age to Flowering
Date: c.1954-1961
Extent: 1 file
Content: Tables showing time to first flowering by seedling number and family.

Reference: AGB 1/4/50
Title: Notes on pigmentation of young shoots in pears; graphs of chlorophyll in pear seedlings.
Date: n.d. [c.1955-1970]
Extent: 2 items

Reference: AGB 1/4/51
Title: [Pears: fruit characteristics]
Date: 1972
Extent: 1 envelope
Content: Pears scored by fruit quality, skin, fruit size, shape, colour. Notes on method of measuring size. Reprints of papers by Zielinski, Reimer & Quickenbush/ Decourtye/ Crane & Lewis on pear breeding (1965, 1967, 1949) with notes from literature.

Reference: AGB 1/4/52
Title: Pears: Statistics
Date: n.d. [aft. 1952]
Extent: 1 file
Creator: not AG Brown's writing.
Content: Statistics on pear fruit size and quality: JII seedlings.

Reference: AGB 1/4/53
Title: Pear Scab
Date: c.1952-1960
Extent: 1 file
Content: Drafts of article on pear scab, with tables, score sheets, working notes.

Reference: AGB 1/4/54
Title: [Heterothallism and variability in *Venturia Pirina*]
Date: 1942
Extent: 1 item
Content: Manuscript article by MH Langford, GW Keitt, with references and tables in AGB's hand.

AGB 1/4/55-63 **Other Fruit**

Reference: AGB 1/4/55
Title: Cherry. Cherry Paper
Date: n.d. [1950-1960]
Extent: 1 file
Content: Notes on cherry incompatibility (charts, lists of varieties, selections); table of varieties showing compatibility group, colour, albinism, yellowing, dwarfing.

- Reference:** AGB 1/4/56
Title: [Cherry Incompatibility and Breeding]
Date: c.1945-1954
Extent: 1 file
Content: Working papers on incompatibility studies in cherry; descriptions of fruit, with pencil sketches; report on self fertile mutation and other sweet cherry work 1952 (LK Crowe); annotated tables of results of 1951 Orchard Fruit Census, by county; notes.
- Reference:** AGB 1/4/57
Title: Pear-Apple Hybrids
Date: c.1952-1958
Extent: 1 file
Content: Draft paper; short report by AG Brown for JI Association 1952; table summarising work on pear-apple hybrids 1952-6; typescript article by AH Williams 'Phenolic Substances of Pear-Apple Hybrids' (*Nature* 175, 1955)
Related unit: Copies of presscuttings are in AGB 1/4/12.
- Reference:** AGB 1/4/58
Title: Rhubarb
Date: 1955-1968
Extent: 1 file
Content: Correspondence between FG Smith (of MAFF Stockbridge Experimental Horticultural Station, Selby, Yks) and Dr Cheeseman & KH Dodds re JII rhubarb varieties 'Merton Foremost', 'M. Banner', 'M. Broadleaf', 'M. Yardstick', with typescript report and descriptions of varieties by AG Brown and MB Crane.
Note: Report and descriptions published in JI Ann Rept.1966 pp39-42
- Reference:** AGB 1/4/59
Title: Tomatoes
Date: 1940-1951 (predominant 1940-1947)
Extent: 1 file
Content: Meteorological records (Kew, Merton).
 Tomato yield and pedigree; seed production in tetraploid and rogue tomatoes. Graphs: comparison of 'Potentate' and hybrids; dwarf tomatoes; leaf mould.
- Reference:** AGB 1/4/60
Title: Rogue Tomatoes
Date: 1940-1952
Extent: 1 file
Content: Observation of rogue prevalence in established varieties; typescript reports (1952): unripe fruit colour of dwarf varieties, earliness trial of dwarf varieties, hybrid vigour; distribution of seed of JI varieties; MS report 'Rogues in Tomatoes'.

Reference: **AGB 1/4/61**
Title: **Tomato Pollination**
 Date: 1943
 Extent: 1 file
 Content: Detailed working notes and MS report on experiments on optimum methods of pollination, including rough sketches of trusses on individual plants.

Reference: **AGB 1/4/62**
Title: **[Tomatoes]**
 Date: 1943
 Extent: 1 item
 Content: MS report 'Fruit Setting of Tomatoes'.

Reference: **AGB 1/4/63**
Title: **Tomato Pedigree**
 Date: n.d. [c.1950]
 Extent: 1 envelope
 Content: Notes on parentage of modern tomato varieties

AGB 1/4/64-68 **Fruit: General**

Reference: **AGB 1/4/64**
Title: **Merton Varieties of Fruit and Veg.**
 Date: c.1964-c.1968
 Extent: 1 file
 Content: Includes reprint of AGB article 'New Fruits from Old' (*Fruit Present and Future*, n.d. 1960s); list of JI plant varieties c.1968; descriptions of Merton varieties (mostly cherries); cropping results for apple Merton Ace [M. Knave].

Reference: **AGB 1/4/65**
Title: **[Merton Fruit Shape]**
 Date: n.d. [1960-1965]
 Extent: 1 file
 Content: Drawings of apple, pear, plum shapes: JII varieties.

Reference: **AGB 1/4/66**
Title: **Inbreeding**
 Date: n.d. [1960-1970]
 Extent: 1 file
 Content: Genetics of soft and top fruits. Notes.

Reference: AGB 1/4/67
Title: [Diseases of fruit trees]
Date: c. 1930-1960
Extent: 1 file
Content: Notes from literature on diseases of fruit, including silver leaf; tables of apple varieties 1919-1960, scored for unknown quality (flowering?); copy article from unknown general periodical.

Reference: AGB 1/4/68
Title: [Punch card system: apple, pear]
Date: n.d. [1960-1970]
Extent: 4 items
Content: Keys to punch card system (apples, pears)
 Tables of apple, pear varieties showing information on cards.
Related unit: Punch card records (apple, pear, freesia) are in AGB 1/5/8

AGB 1/4/69-73 **Fruit: miscellaneous and mixed files (mostly apple, pear)**

Reference: AGB 1/4/69
Title: [Storage trials: Merton apples, pears]
Date: 1960
Extent: 1 item
Content: Report by RG Tomlins, Ditton Laboratory, on storage testing of JI apples and pears 1959-60 season (apple Merton Beauty; pears Merton Royal, M. Pride, JI 3362 [M. Delicious], JI 709 [M. Star]).

Reference: AGB 1/4/70
Title: [Fruit: miscellaneous]
Date: c.1962-1967
Extent: 3 items
Content: Lists of apple, pear and plum selections 1962.
 'Varieties not required in mansion fruit store' 1965.
 List of seedlings with notes on performance.

Reference: AGB 1/4/71
Title: [Pears, apples]
Date: 1954-1961
Extent: 1 file
Content: Mixed file: drawings of shapes of pear crosses; anthocyanin content of apple seedling samples [PD Mišić]; blight resistance of pear varieties 1954-8.

Reference: AGB 1/4/72
Title: [Fruit: miscellaneous]
Date: 1962-1965
Extent: 1 file
Content: Apples: sports for mildew testing; descriptions of Merton apple/ cherry varieties; notes on flavour and keeping qualities of apple 'Mutsee' (1962); table: estimated flesh colour effect of apple varieties as parents; pear varieties producing variegated sports; Gardner & Hatcher (of East Malling): 1 page report 'Regeneration in relation to vegetative vigour and flowering'; table showing effect of rootstock on age at first flowering.

Reference: AGB 1/4/73
Title: **Historical: notes from various publications on history of apple cultivation**
Date: n.d. [aft. 1954]
Extent: 1 page

AGB 1/4/74-101 **Flower Breeding**

Reference: AGB 1/4/74
Title: **Freesia**
Date: c.1965-1973
Extent: 1 envelope
Content: Reprints and guides on growing and breeding of freesia; reports of Guernsey Horticultural Advisory Service 1965, 1966-8 containing information on freesia; crop requirement form, seasonal reports and a few working notes on JI experiments.

Reference: AGB 1/4/75
Title: **Freesia: 1970 families**
Date: c.1970-1972
Extent: 1 envelope
Content: Scoring and description tables.

Reference: AGB 1/4/76
Title: **Freesia**
Date: 1970-1975
Extent: 1 file
Content: Scoring, descriptions of selections (with colour drawings of flowers), project notes.
Related unit: Colour slides in AGB 2/8/16

Reference: AGB 1/4/77
Title: **Graph: number of clones (probably freesia) over 3 months for 1969, 1970, 1971**
Date: c.1971
Extent: 1 item

- Reference:** AGB 1/4/78
Title: Wülfinhoff Freesia: catalogue.
Date: 1971
Extent: 1 item
- Reference:** AGB 1/4/79
Title: [Streptocarpus]
Date: 1974
Extent: 1 file
Content: Paper for Eucarpia (Ornamental plants section) meeting at JI: 'Streptocarpus - the development of a new commercial pot plant'
- Reference:** AGB 1/4/80
Title: [Streptocarpus]
Date: 1967, 1974
Extent: 1 file
Content: Short article on streptocarpus breeding, with 5 photographs, for *Amateur Gardening*; Photocopy of JI Annual Report 1974 pp43-46 (AG Brown's work on Streptocarpus).
- Reference:** AGB 1/4/81
Title: Streptocarpus
Date: 1970-1973
Extent: 1 file (contents of ringbinder)
Content: Scoring, notes on families, light experiments, descriptions of selections and x-ray induced mutants.
- Reference:** AGB 1/4/82
Title: Streptocarpus
Date: 1972-1973
Extent: 1 file (loose in ringbinder)
Content: Scoring, x-ray mutation, notes.
- Reference:** AGB 1/4/83
Title: Streptocarpus scoring
Date: 1974
Extent: 1 file
- Reference:** AGB 1/4/84
Title: Streptocarpus
Date: n.d. [c.1970-1975]
Extent: 1 file
Content: Colour and b/w photographs and negatives of streptocarpus (including prints of 35mm slides). Descriptions of variety 'Tina'; light experiment; notes (mainly flowering record) on 1973 families.
- Related Unit:** Main series of 35mm slides and transparencies of streptocarpus are in AGB 2/8/17-19, AGB 2/9/1.

- Reference:** AGB 1/4/85
Title: Streptocarpus
 Date: 1976
 Extent: 1 file
 Content: Notes on 1973-1974 families
- Reference:** AGB 1/4/86
Title: Table: 'Plants numbered in the appropriate order of coming into flower' [probably Streptocarpus]
 Date: 1974
 Extent: 1 item
- Reference:** AGB 1/4/87
Title: [Streptocarpus Breeding]
 Date: 1973-1974
 Extent: 1 file
 Content: Notes on genetics and colour variation in Streptocarpus.
- Reference:** AGB 1/4/88
Title: Streptocarpus Progenies
 Date: n.d. [c.1975]
 Extent: 1 file
 Content: List of selections
- Reference:** AGB 1/4/89
Title: Streptocarpus
 Date: 1939-1973
 Extent: 1 file
 Content: Reprints of articles on Streptocarpus and a few notes from literature, card index of references to flower characters.
- Reference:** AGB 1/4/90
Title: [Streptocarpus]
 Date: 1969, 1975-1977 and n.d.
 Extent: 1 bundle
 Content: Notes and descriptions of families, care tags for JI varieties of Cape Primrose [Streptocarpus]. Reprint: C. Broertjes 'Mutation Breeding of Streptocarpus' (Euphytica 18, 1969).
- Reference:** AGB 1/4/91
Title: Antirrhinum
 Date: 1969-1972 (1 file)
 Content: Effects of growing under sodium and mercury lamps (flowering, height); time to flowering.

- Reference:** AGB 1/4/92
Title: Chrysanthemums
 Date: 1952-3, 1968-1973
 Extent: 1 envelope
 Content: Seed catalogues, leaflets on glasshouse growing.
 Reprints of 3 articles by GJ Dowrick (of JII) on chromosomes of chrysanthemum (*Heredity*, 1952-3)
- Reference:** AGB 1/4/93
Title: Columnea
 Date: n.d. [c.1969]
 Extent: 1 file
 Content: Notes from literature. Comparison of varieties C. Microphylla, C. Arguta, C. 'Fire Dragon': descriptions, photographs of leaves, drawings of flowers and leaves (1 coloured).
 Related Unit: Slides and transparencies in AGB 2/8/13
 Report for RHS in AGB 1/4/12 and in collected articles AGB 1/2/1 (with colour plate, sketches).
- Reference:** AGB 1/4/94
Title: Fuschias
 Date: 1966-1973
 Extent: 4 items, notes
 Content: Seed catalogues; publications of American Fuschia Society and British Fuschia Society; notes on fuschia varieties.
- Reference:** AGB 1/4/95
Title: Interspecific Hybrids. Gesneriaceae.
 Date: 1974 & n.d.
 Extent: 1 file
 Content: Handbook on Gesneriads (special edition of *Plants & Gardens* v 23 (1)); references to literature (to c.1974) on hybrids of: Achimenes, Columnea, Episcia, Gloxinera, Kohleria, Rechsteineria, Siningia; sketches of flower shapes: Columnea gloriosa atrosanguinea; C. gloriosa atrosanguinea x 'Fire Dragon'; copy article CD Clayberg 'Inheritance of Cytoplasmic Male Sterility in Kohleria (*Jnl. Heredity* 65, 1974).
- Reference:** AGB 1/4/96
Title: Lathyrus Species
 Date: n.d. [c.1965]
 Extent: 1 notebook
 Content: Descriptions of lathyrus species, with colour drawings.
 Related unit: See also index of species: AGB 1/6/14
 Note: See Annual Report 1965 for details of this work: AG Brown/ H Williams preliminary study of apparent interspecific incompatibility in Lathyrus species.

Reference: AGB 1/4/97
Title: Lathyrus
Date: 1964-1967
Extent: 1 file
Content: Colour drawings of Lathyrus species and hybrids; correspondence, reprints and notes re interspecific hybridisation (experiments and procedures).
Related unit: See also index of species: AGB 1/6/14

Reference: AGB 1/4/98
Title: Descriptions of flowers (individual plants of hybrid families, unknown species)
Date: 1954
Extent: 1 file
Note: There is no Annual Report record of AG Brown working on ornamentals at this date, and Peter Matthews does not remember anything official, so this possibly relates to a personal project.

Reference: AGB 1/4/99
Title: Flower Breeding
Date: 1964-1971
Extent: 1 file (4 items)
Content: Reprints of papers on dahlia, delphinium, begonia (various authors)

Reference: AGB 1/4/100
Title: DCK and others: Mums, Cars., Poin.
Date: 1965-1971
Extent: 1 file
Content: Seed catalogues and nursery information leaflets, booklets, etc. on chrysanthemum, carnation and poinsettia growing.

Reference: AGB 1/4/101
Title: 'Bigger, better blooms from the carnation war' (Sunday Times)
Date: 10 May 1970
Extent: 1 press cutting

AGB 1/4/102-119 Conferences

Reference: AGB 1/4/102
Title: Eucarpia
Date: 1971-1975
Extent: 7 items
Content: Bulletins 4-8 (2 copies of 5) with membership list at May 1974.
Language: parallel text in English, French, German.

Reference: AGB 1/4/103
Title: [Eucarpia]
Date: 1971-1974
Extent: 1 bundle
Content: Correspondence, circulars etc. re Eucarpia and meetings of specialist sections on fruit and ornamental plants.

Reference: AGB 1/4/104
Title: Angers 1970
Date: 1970
Extent: 1 envelope
Content: Summaries of papers from Eucarpia Fruit Breeding Section meeting at Angers, Sept 1970, with typescript of AG Brown's paper 'Inheritance of Flavour in the Apple'.

Reference: AGB 1/4/105
Title: Eucarpia. Wageningen Flowers
Date: 1968-1971
Extent: 1 file
Content: Eucarpia Meeting on ornamentals, July 1971 at Institute for Horticulture and Plant Breeding, Wageningen, Holland. Meeting papers, leaflets on host institution, flower auctions etc. Reprints of 2 articles by Johanna Maurer on genetics of *Gerbera jamesonii* H.Bolus (1968). Draft/ typescript papers given at meeting: H Buttenschön (Hannover), Wricke & Horn on hybridisation and genetics of *Gerbera*; AG Brown & DR Davies on *Streptocarpus*.
Language: some material in German and Dutch.

Reference: AGB 1/4/106
Title: Eucarpia Letters
Date: 1972-1973, 1975
Extent: 1 file
Content: Correspondence re arrangements for Fruit Section meeting [Eucarpia Conference] at Canterbury, September 1973 (arranged by A Gavin Brown). Circular re membership.
Language: a few items in French, German

Reference: AGB 1/4/107
Title: Eucarpia; Apple and Pear Breeding Co-operative
Date: 1960-1974 (predominant 1970)
Extent: 1 file
Content: Circulars, documents and correspondence, mainly re September 1973 meeting and establishment of Apple and Pear Breeding Co-operative (within Eucarpia) (1974). Also MAFF Indexes of pears, plums at National Fruit Trials, Brogdale.
Language: some items in French, German.

- Reference:** AGB 1/4/108
Title: ABC etc. [Apple Breeding Co-operative]
Date: 1967-1970
Extent: 1 file
Content: Minutes of 3rd and 4th meetings of (North American) Apple Breeding Co-operative, notes from paper on plant breeding co-operatives (CM Rick, *Horticultural Science* 5, 1970). Notes re feasibility of European co-operative.
- Reference:** AGB 1/4/109
Title: Horticulture in the North West
Date: 1973
Extent: 1 file
Content: Conference papers, Horticultural Education Association (HEA) autumn conference held at Lancashire College of Agriculture.
- Reference:** AGB 1/4/110
Title: 'A Modern Approach to Turfculture and Related Problems'
Date: 1974
Extent: 1 file
Content: Conference papers, commercial catalogues, texts of papers given at HEA Spring Conference, Cardiff.
- Reference:** AGB 1/4/111
Title: 'Tomorrow's Plants'
Date: 1974
Extent: 1 file
Content: Programme, paperwork, correspondence and organisational material re HEA autumn conference held at JI/ UEA.
Note: AG Brown was contemporary President of HEA
- Reference:** AGB 1/4/112
Title: Fruit and Vegetable Mechanisation
Date: 1975
Extent: 1 file
Content: Papers, texts of papers given at HEA spring conference held at National College of Agricultural Engineering, Silsoe, Beds.
- Reference:** AGB 1/4/113
Title: Handbook for 10th National Farmers Union [NFU] 'British Growers Look Ahead' Conference & Exhibition.
Date: 1974
Extent: 1 item
- Reference:** AGB 1/4/114
Title: NFU 'British Growers Look Ahead'
Date: 1974
Extent: 1 file
Content: Conference papers.

Reference: AGB 1/4/115
Title: BGLA '75
 Date: 1975
 Extent: 1 file
 Content: Pack of speakers' papers from NFU British Growers Look Ahead conference (produce and flower growing and marketing)

Reference: AGB 1/4/116
Title: Raspberry Conference
 Date: 1967
 Extent: 1 file
 Content: Conference papers, notes, texts of papers given at International Society for Horticultural Science Symposium on Raspberry Culture, Dundee

Reference: AGB 1/4/117
Title: Angers 1972. Pears
 Date: 1972
 Extent: 1 file
 Content: Conference papers, notes, abstracts of papers given at International Society for Horticultural Science Symposium on Pear Growing, Angers.
 Language: A few items French, bilingual English/ French.

Reference: AGB 1/4/118
Title: Report for ARC on International Society for Horticultural Science Symposium 'Culture of the Pear', attended by AGB.
 Date: 1972
 Extent: 2 items

Reference: AGB 1/4/119
Title: Warm Air Heating
 Date: 1970
 Extent: 9 printed items
 Content: Commercial catalogues and Electricity Council leaflets on heating glasshouses (from day conference 'Talking Hot Air', Norfolk School of Horticulture)

AGB 1/4/120-134 Papers and Publications by A Gavin Brown

Reference: AGB 1/4/120
Title: Advances in Fruit Breeding/ Letters
 Date: 1971-1974
 Extent: 1 file
 Content: Correspondence re A Gavin Brown's chapter on apples in J Moore & J Janick (eds.) *Advances in Fruit Breeding*. Includes copy comments on AG Brown's draft.

- Reference:** AGB 1/4/121
Title: Notes re Advances in Fruit Breeding
Date: 1972
Extent: 2 loose pages
- Reference:** AGB 1/4/122
Title: Advertising leaflet for *Advances in Fruit Breeding*
Date: 1974
Extent: 1 item
Provenance: AGB's filing tray.
- Reference:** AGB 1/4/123
Title: Advances in Fruit Breeding
Date: Dec 1973
Extent: 1 item
Content: Page proof of AG Brown's chapter on apples in Janick & Moore *Advances in Fruit Breeding*.
- Reference:** AGB 1/4/124
Title: Advances in Fruit Breeding
Date: 1973
Extent: 1 manuscript
- Reference:** AGB 1/4/125
Title: PB for A [Plant Breeding for Amateurs]
Date: 1953, nd
Extent: 1 file
Content: Correspondence with AGL Hellyer (of *Amateur Gardening* magazine), notes and drafts for proposed book [apparently never completed] on plant breeding for amateur gardeners. Also fragmentary typescript articles by AG Brown: 'The blight of fruit trees: a historical review'; 'Factors affecting fruit production in plums'; 'Fruit trees'. Alphabetical lists of ornamental plants with notes on chromosome numbers.
- Reference:** AGB 1/4/126
Title: [Plant Breeding for Amateurs]
Date: n.d. [c.1953]
Extent: 2 items
Content: Manuscript of AG Brown's book *Plant Breeding for Amateurs*, chapters 1-9
- Reference:** AGB 1/4/127
Title: Encyclopaedia Britannica
Date: 1964
Extent: 1 file
Content: Correspondence with editor of *Encyclopaedia Britannica* re AG Brown's revision of articles on peach and pear; drafts and typescripts. Tables of world peach, pear production 1960-1.

Reference: AGB 1/4/128
Title: AG Brown - MSS
Date: c.1943-1952
Extent: 1 file (12 items)
Content: Manuscripts and proofs of articles:
 AG Brown/ Shay 'Problems in Disease Resistance in Certain of the Tree Fruits', n.d. [1961]
 'Order and period of blossoming in Pear Varieties', 1943
 'Sexual Incompatibility in Flowering Plants', 1944
 'The identification of fruit varieties' n.d. [*Fruit Year Book*, 1955]
 'Bud Sports' n.d. [*Fruit Year Book*, 1956]
 'A mutant with suppressed lateral shoots' (tomato), 1955
 'The growers of big gooseberries and the gooseberry clubs', c.1949
 'Quinces and Medlars' [chapter in *Pomona Britannica*, c. 1956]
 'The confusion of varietal names', *Fruit Year Book*, 1953
 'Factors affecting fruit production in plums', *Fruit Year Book*, 1950
 'The blight of fruit trees: a historical review' *Fruit Year Book*, 1950
 'Name this apple', *Country Life*, 9 Dec 1950

Reference: AGB 1/4/129
Title: Short typescript articles with tables on compatibility in apples, cider apples, pears, cherries, plums
Date: n.d. [c.1960]
Extent: 1 bundle
Note: This is not the JI leaflet on incompatibility.

Reference: AGB 1/4/130
Title: Reprint of W Williams & AGB 'Breeding new varieties of fruit trees' *Endeavour* XIX (75)
Date: 1960
Extent: 1 item

Reference: AGB 1/4/131
Title: [Papers]
Date: n.d. [1950-1965]
Extent: 2 items
Content: Carbon copies of papers 'The Identification of Fruit Varieties'; 'Physiological Behaviour of a Diploid and Tetraploid Pear Variety'.

Reference: AGB 1/4/132
Title: Annotated typescript AGB article 'Fruit Breeding at the John Innes Institute'
Date: n.d. [c.1970]
Extent: 1 item

Reference: AGB 1/4/133
Title: Reprint of AGB article on inbreeding and vigour/ juvenile period in apples
Date: c.1975
Extent: 1 item

Reference: AGB 1/4/134
Title: Essays on Genetics
Date: 1960
Extent: 1 file
Content: Copies of AGB articles on pear scab; apple shape and size, with full list of articles submitted in support of his entry for the Jones-Bateman Cup, and preface summarising his career.

AGB 1/4/135-138 Involvement with external bodies

Reference: AGB 1/4/135
Title: National Fruit Trials
Date: 1964-1973
Extent: 1 file
Content: Minutes and papers of MAFF NFT Sub Committee for Apples & Pears. Includes 1971 list of top fruit selections on trial, report on Apple Screening Trial No. IV, yield tables for other Trials.
Note: AG Brown was on the sub-committee from 1964.

Reference: AGB 1/4/136
Title: RHS Fruit Group Committee
Date: 1959-1964
Extent: 1 file
Content: Minutes, including re proposed commemorative volume for 21st anniversary of group.

Reference: AGB 1/4/137
Title: NFU
Date: 1969-1975
Extent: 1 file
Content: National Farmers Union Top Fruit and Soft Fruit Working Groups [forums for growers and breeders]. Minutes (i.e. reports, with summaries of papers), papers and circulars; progress reports from members.

Reference: AGB 1/4/138
Title: Norfolk School of Horticulture
Date: 1970-1972
Extent: 1 file
Content: Correspondence, minutes of meetings and papers of Norfolk School of Horticulture sub-committee of Norfolk Education Committee.
Note: AG Brown was on the sub-committee from Oct 1970.

AGB 1/4/139-141**Talks and Lectures****Reference:****AGB 1/4/139****Title:****Lecture: Breeding of Ornamental Plants****Date:**

1975

Extent:

1 envelope

Content:

Notes, outline and text of paper for HEA conference.

Reference:**AGB 1/4/140****Title:****[Lectures]****Date:**

n.d. [c.1954-1970]

Extent:

1 file

Content:

Cue cards, outlines, notes, texts of lectures by AG Brown for non-specialist audiences, incl. 'Factors responsible for Fruit and Seed Setting', Merton fruit varieties (c.1954), 'Pollination of apples and pears' (Witham, Essex, 1959), 'Work of John Innes Institute' (Hethersett Horticultural Society).

Reference:**AGB 1/4/141****Title:****Herts. AEC. 1959 talk.****Date:**

1959

Extent:

1 item

Content:

Text of lecture by AG Brown on modern methods of plant breeding

AGB 1/4/142-145**Species Collections****Reference:****AGB 1/4/142****Title:****Prunus Species Collection****Date:**

n.d. [c.1949]

Extent:

1 item

Content:

Set of description cards, with note from GDR [Gordon Rowley, Keeper of Collections] to J Newell [Assistant Curator] re transfer of collection from Merton to Bayfordbury.

Reference:**AGB 1/4/143****Title:****Lists of species and varieties: Malus, Pyrus, Prunus.****Date:**

1954

Extent:

1 item

Reference:**AGB 1/4/144****Title:****Rubus Species Collection****Date:**

n.d. (to 1960), 1960

Extent:

2 items

Content:

Typescript lists of collection (one heavily annotated).

Reference: AGB 1/4/145
Title: Species Collections
Date: n.d. [1950-1965]
Extent: 3 items
Content: Pyrus, Prunus and Sorbus collection lists (giving location at Bayfordbury, plant number, name).
Note: The species collections left at Bayfordbury were not retained by the subsequent occupiers of the estate.

AGB 1/4/146-148 **John Innes Society**

Reference: AGB 1/4/146
Title: John Innes Society
Date: 1968-1973
Extent: 1 file
Content: Committee agendas, meeting notes and papers, etc. Includes comments by J Aldous, and other material on Recreation block design.
Note: AG Brown was chairman of the John Innes Society 1968-1971, Vice President 1972-1976.

Reference: AGB 1/4/147
Title: JI Institute Recreation Block, Colney
Date: 1970
Extent: 2 drawings
Content: Architectural Drawings: Feasibility Design, sections; Revised feasibility design (floor plans; AG Brown's copy)

Reference: AGB 1/4/148
Title: John Innes Society Newsletters
Date: 1968-1975
Extent: 9 items
Content: Numbers 1-7, AGM 1975; JI Journal for 1968-1971.

AGB 1/4/149-158 **John Innes Institute: General**

Reference: AGB 1/4/149
Title: JIHI Conditions of Work
Date: 1951
Extent: 1 item

Reference: AGB 1/4/150
Title: Notes on expenses payable on permanent transfer, issued re move to Colney
Date: n.d. [c.1965]
Extent: 2 items

- Reference:** AGB 1/4/151
Title: JII rules on insurance of private vehicles used for work
Date: 1973
Extent: 1 item
- Reference:** AGB 1/4/152
Title: JII open day introductory leaflet
Date: n.d. [c.1970]
Extent: 1 item
- Reference:** AGB 1/4/153
Title: Brief introduction to Department of Applied Genetics
Date: n.d. [1970]
Extent: 1 item
- Reference:** AGB 1/4/154
Title: John Innes compost and feed formulae
Date: n.d.
Extent: 3 copies
- Reference:** AGB 1/4/155
Title: Seed list
Date: 1973
Extent: 1 item
- Reference:** AGB 1/4/156
Title: JII 'Rogues Gallery'
Date: c.1968
Extent: 1 photograph
- Reference:** AGB 1/4/157
Title: Woman with flowers
Date: n.d.
Extent: 3 photographs
- Reference:** AGB 1/4/158
Title: Genetics and Fruit Breeding
Date: April 1957
Extent: 1 item
Content: Booklet of papers on aspects of work at JI, with introduction to the Institute, for visiting fruit specialists.
- Reference:** AGB 1/4/159
Title: Reprints by others.
Date: 1951-1974
Extent: 23 items
Content: Reprints on fruit breeding and related subjects, found loose among subject files. Mainly papers by T. Visser.

AGB 1/4/160-165**Research and related institutions**

- Reference:** AGB 1/4/160
Title: Station de Recherches d'Arboriculture Fruitière d'Angers. Research report 1967-1974
 Date: 1975
 Extent: 1 item, enclosures.
 Language: French (summary in English)
- Reference:** AGB 1/4/161
Title: Agricultural College of Sweden (Fruit Breeding Division), Balsgård. Annual Reports
 Date: 1972-1975
 Extent: 3 items
 Language: Swedish
- Reference:** AGB 1/4/162
Title: Justus Liebig University, Gießen, FRG. Research Report: 1970-74
 Date: 1975
 Extent: 1 item
- Reference:** AGB 1/4/163
Title: [Fruit varieties in other collections]
 Date: 1953-1960 and n.d.
 Extent: 3 items
 Content: Lists of fruit varieties at: Balsgård, Sweden 1960; Cacak, Jugoslavia n.d.
 Lists of apples in National Apple Variety Collection, Mylnefield, 1953, 1954
- Reference:** AGB 1/4/164
Title: Askham Bryan College of Agriculture and Horticulture. Prospectus 1974/5
 Date: 1974
 Extent: 1 item
- Reference:** AGB 1/4/165
Title: Wye College, University of London. Prospectus 1975/7 and Economic Review of College Farm and Commercial Horticulture for 1973.
 Date: 1974-1975
 Extent: 2 items

AGB 1/4/166-177**Miscellaneous****Reference:****AGB 1/4/166****Title:****Plant Variety Rights Office/ MAFF press releases****Date:**

1965-1968

Extent:

1 file

Reference:**AGB 1/4/167****Title:****UPOV Draft Guidelines for Distinctiveness Tests on Apple Varieties****Date:**

1973-1974

Extent:

1 file

Content:

Draft guidelines sent to AG Brown for comment.

Reference:**AGB 1/4/168****Title:****Choosing a Name: flyer for National Apple Register for Great Britain.****Date:**

1970

Extent:

1 item

Reference:**AGB 1/4/169****Title:****[research topics for ARC institutions]****Date:**

18 Dec 1972

Extent:

1 item

Content:

Copy letter GC Stevenson (Agric. Research Council) to Roy Markham, enclosing memorandum of British Association of Plant Breeders suggesting research topics for ARC institutions.

Reference:**AGB 1/4/170****Title:****Glossary of Terms used in Propagation****Date:**

1959

Extent:

1 envelope

Content:

Typescript circulated for comment/ amendment by E W Hobbs, Horticultural Education Association

Reference:**AGB 1/4/171****Title:****[J. Capon]****Date:**

1969

Extent:

1 file

Content:2 photographs, note on career at JII and letter (*Gardener's Chronicle* to AGB), all re award of RHS long service medal to J. Capon.

- Reference:** AGB 1/4/172
Title: Hare and Rabbit Damage to Nursery Trees
Date: 1961-1962 and n.d. (from 1940s/50s reports)
Extent: 1 envelope
Content: Notes on extent of damage to young trees.
 Notes from East Malling annual reports on Malling and Malling-Merton rootstocks.
- Reference:** AGB 1/4/173
Title: Table of geographic/ habitat distribution of dicotyledons
Date: n.d.
Extent: 1 item
- Reference:** AGB 1/4/174
Title: The Genus *Sisyrinchium*
Date: n.d. [compiled by AGB, possibly 1930s-1940s]
Extent: 1 bundle
Content: Notes from Nicholson's *Dictionary of Gardening* (1887) and other 19th century sources.
- Reference:** AGB 1/4/175
Title: [Address book]
Date: n.d. [1960s-1970s]
Extent: 1 bundle
Content: Loose-leaf pages: work addresses of UK and international fruit breeding/ plant genetics researchers.
- Reference:** AGB 1/4/176
Title: *Punch: Your Garden and You*
Date: 13 May 1959
Extent: 1 item
- Reference:** AGB 1/4/177
Title: Drawings of seashells
Content: Ink and colour drawings, found in filing tray
Date: n.d.
Extent: 1 page
Creator: A Gavin Brown.

Reference: GB 440 AGB 1/5

Title: A Gavin Brown Collection: Working Papers: Card Files and Indexes

Date: 1935-c.1975

Level of Description: Sub-sub fonds

Extent: 9 boxes, 4 binders

Content:

Files in index card format, predominantly annotated subject bibliographies. Also card indexes to JIHI Annual Reports and to the flora of the Bayfordbury Estate, both with associated working notes.

Reference: AGB 1/5/1

Title: Fruit Bibliography

Date: c.1935 - 1942

Extent: 2 boxes, 3" x 5" index cards.

Content: Subject index of bibliographic references to fruit (cultivation, pests and diseases, physiology, pollination, cytology, genetics).

Reference: AGB 1/5/2

Title: [References Index]

Date: c.1964

Extent: 3 binders

Content: ABC author index of papers on fruit growing, breeding and genetics.

Reference: AGB 1/5/3

Title: [Scab and mildew references]

Date: n.d. [c. 1958]

Extent: 1 bundle

Content: Author index of references to and notes from literature on scab and mildew in apple and other fruits.

Reference: AGB 1/5/4

Title: Descriptions of Fruit

Date: n.d. [c.1940-1950]

Extent: 2 boxes, 3"x 5" index cards.

Content: Descriptions of apple varieties, with notes on characteristics. Includes photographs. Also chromosome numbers, *prunus* species (not AG Brown's hand), references on compatibility and cytology.

- Reference:** **AGB 1/5/5**
Title: **[Pears]/ Plot Book III**
Date: 1960s and c.1948-1953
Creator: A Gavin Brown
Extent: 1 binder
Content: Index of pear varieties, with notes on characteristics and references to published descriptions (no bibliography). Loose in front: pear/ quince compatibility; loose pages from strawberry plot book.
- Note:** Written on back of mixed Bayfordbury plot lists, which include recording of strawberry yield trial.
- Reference:** **AGB 1/5/6**
Title: **Cherries**
Date: n.d. [c. 1954]
Extent: 1 bundle
Content: Index of cherry varieties, with notes on characteristics and references to published descriptions (no bibliography).
- Reference:** **AGB 1/5/7**
Title: **Plums**
Date: n.d. [aft. 1952]
Extent: 1 bundle
Content: Index of plum varieties, with notes on characteristics and references to published descriptions (no bibliography).
- Reference:** **AGB 1/5/8**
Title: **[Punch cards: freesia, chrysanthemum, apple, pear]**
Date: [c.1965-1975]
Extent: 1 box, 5"x 8" index cards.
- Content:** Card indexes of freesia (sowing record, notes on varieties, references and notes) and chrysanthemum (references and notes), coded according to type of information. Punch cards for apple and pear varieties, with coded information on characteristics and notes on origin, etc.
- Note:** The punch card system was a means of recording and extracting related information. Each card (generally for a cultivar, but the system was also used for coding notes from literature, etc.) was punched according to a pre-determined template. Metal rods were threaded through the holes relating to the desired characters or information, and those cards matching the requirements would drop out (information from Peter Matthews).

- Reference:** **AGB 1/5/9**
Title: **Flora of Bayfordbury**
Date: 1956- c.1958
Extent: 1 box, 3"x 5" index cards.
Creator: A Gavin Brown, Hedley Williams.
Content: Card index of wild plants found at Bayfordbury. Includes specimens of mosses.
Publication note: The records were contributed to JG Dony's *Flora of Hertfordshire* (Hitchin, 1967).
- Reference:** **AGB 1/5/10**
Title: **Flora of Bayfordbury**
Date: 1956-1958
Extent: 1 file
Creator: A Gavin Brown, Hedley Williams.
Content: Working notes and correspondence relating to study of wild plants on the Bayfordbury estate.
- Reference:** **AGB 1/5/11**
Title: **Annual Report Indexes**
Date: n.d. [c.1975?]
Extent: 1 box, 3"x 5" index cards.
Content: Index to JIHI Annual Reports 1911-c.1950, in 4 parts:
 1. Council members
 2. JI staff and their work (several sections, including extracts from JIHI Record of Work 1910-1935 giving details of careers)
 3. subject (A-O only)
 4. Cultivars (fruit, vegetables, flowers)
- Reference:** **AGB 1/5/12**
Title: **JI Index: Notes**
Date: n.d. [c. 1975]
Extent: 1 file
Content: Working notes for compilation of subject indices to JIHI Annual Reports. Also typescript descriptions of JI varieties (as AR 1966), with notes and sketches for planting schemes on reverse; notes from annual reports on physical development of JIHI at Merton.
- Reference:** **AGB 1/5/13**
Title: **[References and notes: fruit breeders, varieties, etc.]**
Date: n.d. [1930-1950?]
Extent: 1 bundle
Content: Notes and references from literature on early fruit breeders; horticulture generally; miscellaneous fruit varieties; pear varieties.

- Reference:** AGB 1/5/14
- Title:** **Miscellaneous Indexes**
- Date:** c.1935-1970
- Extent:** 1 box containing 5 indexes.
- Content:**
1. Fruit diseases and pests: treatments, bibliography. Also bibliography with notes on hybridisation (trees), c.1944 and n.d. (3"x 5" cards)
 2. Bibliography of AG Brown's minor publications in *Gardeners Illustrated*, *Gardeners Chronicle* and local press, 1927-1935. (3"x 5" cards)
 3. Fruit and vegetable records: apple, asparagus, beans, gooseberry, liliun, pear, plum, potato, radish, rhubarb, strawberry, tomato, tropaeolum: flowering times, crop and yield records, etc., 1948. (4"x 6" cards)
 4. Apples: descriptions and observations of apple varieties and rootstocks, with bibliography. Information recorded includes disease resistance. n.d. [c. 1955 - c.1969] (5"x8" cards)
 5. Lathyrus: descriptions of species. n.d. [c.1965]
- Related units:** AGB 1/4/96-97 lathyrus study.

Reference: GB 440 AGB 1/6

Title: A Gavin Brown Collection: Working Papers:
Notebooks

Date: c.1935-1970

Level of Description: Series

Extent: 31 volumes

Creator:

A Gavin Brown. Also DM Harvey as his assistant.

Content:

Notebooks containing working notes and references predominantly on apple genetics and apple scab and mildew. Also 2 volumes of lectures given to horticultural students at JIHI.

Source:

Formerly in the Scientific Notebook Collection.

Related Materials:

Notebooks relating to AG Brown's work on tomato, radish and top fruit under MB Crane's direction, 1935-1952, are in the scientific notebook collection, which also contains related notes on fruit breeding and genetics (including tomato), accessions, and species collections by MB Crane and others.

There is complementary material in A Gavin Brown's subject files (AGB 1/4).

- Reference:** AGB 1/6/1
Title: Apple: Biochemistry
 Date: 1961-1963
 Extent: 1 notebook
 Creator: DM Harvey
 Content: Notes on investigation of flavour in apples.
 Related unit: AGB 1/4/21-22
- Reference:** AGB 1/6/2
Title: Paper Chromatography etc.
 Date: c.1961-1962
 Extent: 1 small notebook
 Content: Apple flavour: experimental methods, notes from literature, etc.
 Related unit: AGB 1/4/21-22
- Reference:** AGB 1/6/3
Title: Colchicine
 Date: c.1958-1966
 Extent: 1 notebook
 Creator: A Gavin Brown, DM Harvey
 Content: Apples: seed measurements; fruit size and colour
- Reference:** AGB 1/6/4
Title: Apple Crop Weights
 Date: 1954-1962
 Extent: 1 notebook
 Content: Record of cropping of JI apple selections on variety of rootstocks.
- Reference:** AGB 1/6/5
Title: Pear crop weights
 Date: 1954-1962
 Extent: 1 notebook
 Content: Record of cropping of JI pear selections.
- Reference:** AGB 1/6/6
Title: Crop Weights
 Date: 1954-1966
 Extent: 1 bundle
 Content: Record of crop weights, apple and pear: selections, JI varieties and cultivars, on different rootstocks.
- Reference:** AGB 1/6/7
Title: Apple and Pear Selections, Bayfordbury
 Date: 1950-1966
 Extent: 1 notebook
 Creator: DM Harvey
 Content: Descriptions of fruit of JI selections, excluding those in museum collection.
 Related unit: AGB 1/3/6

- Reference:** AGB 1/6/8
Title: [Apple Genetics]
Date: c.1960
Extent: 1 notebook
Content: Notes from and references to literature (including statistics) on apple colour, size and flavour.
Note: Volume labelled 'Apples, Pears, Cherries'.
- Reference:** AGB 1/6/9
Title: Fruit - references to papers
Date: c.1965
Extent: 1 notebook
Content: Also fruit character tables in back, possibly raspberry.
- Reference:** AGB 1/6/10
Title: Phytophthora Cactorum
Date: 1959-1961
Extent: 1 notebook
Creator: A Gavin Brown, DM Harvey
Content: Notes and results of experiments in collar rot of apples
Related unit: AGB 1/4/29
- Reference:** AGB 1/6/11
Title: Plant Pathology
Date: c.1962
Extent: 1 small notebook
Content: Notes on scab-resistant Shay apple selections. Also fireblight in pears, notes from literature on diseases of top fruits.
- Reference:** AGB 1/6/12
Title: [North America/ Diseases of Fruit]
Date: 1959-1961
Extent: 1 small notebook
Content: Diary of visit to fruit breeding institutions in Canada & USA; notes on diseases of fruit, especially apple scab.
- Reference:** AGB 1/6/13
Title: Apple Mildew
Date: 1953-1956
Extent: 1 notebook
Content: Scoring; notes on each year's work.
Related unit: AGB 1/4/34-44
- Reference:** AGB 1/6/14
Title: Apple Scab I
Date: 1955-1958
Extent: 1 notebook
Content: Notes on scab inoculations, methods, results.
Related unit: AGB 1/4/34-44

- Reference:** AGB 1/6/15
Title: Apple Scab II
Date: 1958-1970
Extent: 1 notebook
Creator: A Gavin Brown, DM Harvey
Content: Screening tests; race - 5 studies; phytotoxin
Related unit: AGB 1/4/34-44
- Reference:** AGB 1/6/16
Title: Apple Scab: Cultures
Date: 1955-1969
Extent: 1 notebook
Creator: A Gavin Brown, DM Harvey
Related unit: AGB 1/4/34-44
- Reference:** AGB 1/6/17
Title: General Notes. Scab Inoculations
Date: 1961-1968
Extent: 1 notebook
Creator: DM Harvey
Content: Diary of work
- Reference:** AGB 1/6/18
Title: Scab. Shay
Date: 1956-1960
Extent: 1 notebook
Content: Notes on Shay apple selections: fruit, mildew etc.(Shay nos. 1-126)
Related Unit: AGB 1/4/34
- Reference:** AGB 1/6/19
Title: Malus species
Date: n.d. [c.1955-1965]
Extent: 1 small notebook
Content: Plot lists (includes some Shay material), with some notes on scab and mildew resistance. Also references and notes from literature.
- Reference:** AGB 1/6/20
Title: Apple and pear crosses
Date: n.d. [c.1955-1965]
Extent: 1 small notebook
Content: Plot lists, including Shay material, with selections marked.
- Reference:** AGB 1/6/21
Title: Plots
Date: c.1960
Extent: 1 notebook
Content: plot lists of apple families at Bayfordbury

- Reference:** AGB 1/6/22
Title: [Apple Seedlings]
Date: n.d. [c.1955-1965]
Extent: 1 small notebook.
Content: Plot lists of seedling and family numbers.
- Reference:** AGB 1/6/23
Title: Scab-Resistant Selections
Date: c.1963-1966
Extent: 1 notebook
Content: Plot lists of Shay apple selections, with scab and mildew scoring over one or more years.
- Reference:** AGB 1/6/24
Title: Freesia Cytology
Date: 1969-1970
Extent: 1 notebook
Creator: DM Harvey, AG Brown
Content: Notes on cytology of freesia varieties, pollen and compatibility. Front contains stapled up slide list (superceded numbers) in AGB's hand.
- Reference:** AGB 1/6/25
Title: [Flower Breeding]
Date: 1955-1958, 1970
Extent: 1 notebook
Creator: 1. A Gavin Brown
 2. unknown.
Content: 1. Notes on flower breeding: fuschia, also freesia (including compatibility table), geranium, columnea: notes on varieties and from literature.
 2. Bradford Van record of use, 1955-1958.
- Reference:** AGB 1/6/26
Title: Lectures - indoor fruits
Date: 1935x1940
Extent: 1 notebook
Content: Texts of lectures given by AGB to JI horticultural students
- Reference:** AGB 1/6/27
Title: Lectures for Student Gardeners (Hardy Fruits)
Date: 1935x1940
Extent: 1 notebook
Content: Texts of lectures given by AGB to JI horticultural students

- Reference:** AGB 1/6/28
Title: [notebook]
Date: n.d. [mid 1960s] and 1965-1966
Extent: 1 hardback notebook
Creator: 1. A.G. Brown's hand; 2. unknown.
Content: 1. Draft papers or lectures on apple breeding; lists of plant varieties (possibly planting schemes for own garden or JII) and miscellaneous notes.
 2. [from other end of book] Shorthand notes, probably of conversations with named individuals (fruit growers and breeders), 1965-1966.
- Reference:** AGB 1/6/29
Title: Percentages
Date: n.d.
Extent: 1 notebook
Content: handwritten ready reckoner
- Reference:** AGB 1/6/30
Title: Mathematical tables
Date: n.d.
Extent: 1 notebook
Content: Also contains notes on statistics.
- Reference:** AGB 1/6/31
Title: Tables & Formulae
Date: n.d.
Extent: 1 notebook
Content: Ready reckoners, useful statistics and formulae for JI composts, pest treatments etc.

Reference: GB 440 AGB 2

Title: A Gavin Brown Collection: Photographic Collections

Creation Date: c.1930-1975

Level of Description: Sub-fonds

Extent: 27 boxes, 5 loose items

Creator:

The Institute's professional photographers during Gavin Brown's career were HC Osterstock (1925-1942) and LS Clarke (1948-1981). Other photographic work was probably done by members of the department. AG Brown is known to have been a keen photographer and was trained in colour photography (1944). The indexes are in AG Brown's hand.

Content:

A. Gavin Brown had or took responsibility for much of the photographic record of the Pomology Department. The photographic material in his collection thus provides a full visual record both of his own work and that of MB Crane on top fruits, tomatoes and flower breeding, and also to a lesser extent of the work of other members of the department, particularly that of Hedley Williams on strawberries. Media are glass plate and 35mm negatives, prints, 35mm slides and transparencies. There are original indexes to several series.

Related materials:

A. Gavin Brown's personal photograph collection (including pictures of JI buildings and colleagues) is in AGB 3/4-6.

Further photographic material relating to fruit breeding may be found in the general JI photograph collections and in the Peter Matthews Collection (cherries).

- Reference:** AGB 2/1
Title: Index to glass plate negatives
Date: c.1940-1965
Extent: 1 notebook, 1 loose-leaf file.
- Reference:** AGB 2/2
Title: Glass plate negatives 1-700
Date: c.1937-1950
Extent: 55 glass plate negatives
Content: Fruit trees in pots showing results of cross and self-pollination (apple, cherry, pear, plum); fruit sports and chimeras; blackberry 'Merton Thornless'; rogue tomato; radishes (1), loganberry (1). Also four copies of picture from *Pomona Herefordiensis* (1811).
Copies: Prints of many of these are in AGB 2/4 (unnumbered).
Physical state: FRAGILE – do not handle unnecessarily.
Related units: The series is continued in AGB 2/3
Prints of some of these negatives (and others not surviving) are in AGB 2/4/1
Note: This series was extensively weeded by A Gavin Brown when the Institute moved from Bayfordbury to Colney (see note in front of index). Retained negatives are marked in the index.
- Reference:** AGB 2/3/1-2
Title: Glass plate negatives and prints 700-1157
Date: c.1950-1960
Extent: Approximately 460 glass plate negatives, 460 prints.
Content: Negatives and photographs showing trees and fruit of JI apple, pear and cherry varieties and selections; tree fruit diseases (apple scab and mildew); strawberry breeding (plants and fruit of JI selections and varieties, disease: red core, June yellows); tomato (JI varieties, abnormalities). Also blackberry, raspberry, fruit chimaeras and sports, P-32 treatment of apple, tomato, pear x apple hybrid (nos. 751-753).
Arrangement: 1. Glass plate negatives
2. Prints
Copies: A complete set of prints was made in 1991 (AGB 2/3/2)
Physical state: FRAGILE – NOT FOR PRODUCTION (use prints)
Related units: Surviving negatives 1-700 are in AGB 2/2. There are some original prints in AGB 2/4/1.

- Reference:** **AGB 2/4/1-2**
Title: **Photographs and 35mm negatives**
Date: c.1930-1960
Extent: 3 boxes
Creator: HC Osterstock, A Gavin Brown and others.
Content: Original prints from glass plate negatives 1-1160, including many not otherwise surviving; drawings by AG Brown of cherry, pear and plum blossom; 35mm negatives. Main subjects: incompatibility in pear, cherry, apple, plum (trees in pots showing results of pollinations, fruit and seeds of crosses, tables, diagrams); blackberry (fruit and leaves of JI varieties and other crosses); tomato (selections and varieties, abnormalities); miscellaneous unnumbered prints of JI fruit varieties, fruit, vegetables and flowers, views of experimental plots, etc.
- Arrangement:** There was little discernible order as originally found. The material has therefore been arranged as follows:
 Box 1: old prints 1-700, grouped as far as possible by index category.
 Box 2: 700 - 1160, in number order (incomplete).
 Box 3: unnumbered prints grouped by subject, drawings of blossom, 35mm negatives.
 Notes from original packaging have been transcribed and placed with the relevant prints.
- Related units:** Glass plate negatives are in AGB 2/2-3.
 File containing further early photographs of fruit breeding work in Pomology Dept. records.
- Reference:** **AGB 2/5/1-2**
Title: **Indexes to 35mm slides.**
Date: c.1960-1970
Extent: 1 notebook, 1 file.
Content: 1. Subject index
 2. Numeric list
- Related unit:** AGB 2/6
- Reference:** **AGB 2/6**
Title: **35mm slides 1-600**
Date: c.1957 - 1970
Extent: approximately 500 35mm slides.
Content: colour and black & white slides documenting the work of A Gavin Brown and colleagues on apple, blackberry, cherry, peach, pear, plum, potato, strawberry, tomato. Also freesia, lathyrus. Also maize, cucurbits, salvia. Slides depict plants, fruit, details of plants, propagation methods, cytology, tables and statistics.
- Physical state:** A few are cracked. Some mounts disintegrating - handle with care.

Reference: **AGB 2/7**
Title: **35mm slides**
Date: c.1957-1970
Extent: c.160 slides
Content: Separately kept incomplete set of duplicates of slides in the main series (AGB 2/6)
Note: A few slides have been moved to fill gaps in AGB 2/6.

Reference: **AGB 2/8**
Title: **Flowers, fruit: 35mm slides, transparencies, photographs.**
Extent: 2 boxes
Date: c.1950-1975
Content: Slides, transparencies and photographs illustrating A Gavin Brown's work on apples, streptocarpus and freesia. Also pear, plum, koehleria. This appears to be AG Brown's personal collection.
Arrangement: Multiple duplicates have been weeded, retaining no more than two copies. In the numbered series, duplicates are at the end, otherwise filed together.
Note: further catalogued (below): 8/1 - 8/20

Reference: **AGB 2/9**
Title: **35mm slides: streptocarpus, Colney**
Extent: 40 slides.
Date: c.1966-1975
Creator: A Gavin Brown, D Roy Davies
Content: AGB 2/10/1 Slides of streptocarpus varieties (duplicates of some of AGB 2/8/13), index.
 AGB 2/10/2 Views of JII buildings at Colney.
Note: Contents of small slide box. Provenance is uncertain: index is annotated by DR Davies, who worked with A Gavin Brown on streptocarpus breeding, so these may be his set rather than Brown's.

Reference: **AGB 2/10**
Title: **Apple seedling no. 4140: box of fruit**
Extent: 2 colour photographs
Date: 1968

Reference: **AGB 2/11**
Title: **Mixed group of apples.**
Extent: 1 large colour photograph
Date: n.d.

AGB 2/8/1-20

Note: detailed descriptions have been placed at the end of AGB 2 rather than in sequence for clarity in the series level catalogue. This reflects a known weakness in the ISAD(G) rules.

- Reference:** **AGB 2/8/1**
Title: **[Apple Trees]**
Date: 1960 and n.d. [c.1950-1960]
Extent: 5 colour photographs with negatives, 9 transparencies
Content: Photographs, negatives and colour transparencies of apple and pear cultivars and JI varieties.
Physical state: Colour quality of transparencies has deteriorated.
- Reference:** **AGB 2/8/2**
Title: **Apple – fruits**
Date: n.d. [1965-1975]
Extent: 14 colour slides
Content: Fruits of JI 5641, 6076, 6141; Merton Russet and sport; Merton Ace/ Knave (tree in fruit).
- Reference:** **AGB 2/8/3**
Title: **Film 1: Shay 64, Merton Knave.**
Date: n.d. [1970-1975]
Extent: 16 colour slides
Content: Apple blossom.
- Reference:** **AGB 2/8/4**
Title: **Film 2: Apple. Merton Knave, S11, S62 etc.**
Date: n.d. [1970-1975]
Extent: 18 colour slides
Content: Apple blossom.
- Reference:** **AGB 2/8/5**
Title: **Film 3: Apple. Merton Knave.**
Extent: 14 colour slides
Date: n.d. [1970-1975]
Content: Apple blossom.
- Reference:** **AGB 2/8/6**
Title: **Film 4: Apple. S11, S62.**
Date: n.d. [1970-1975]
Extent: 15 colour slides
Content: Apple blossom.
- Reference:** **AGB 2/8/7**
Title: **Apples. Sport of [JI] 3436**
Date: n.d. [1965-1975]
Extent: 2 colour slides

- Reference:** AGB 2/8/8
Title: [Apple flavour]
Date: n.d. [c. 1960-1965]
Extent: 10 slides
Content: Series of slides illustrating work on acid and sugar in apples.
- Reference:** AGB 2/8/9
Title: [Apple vigour and age at first flowering]
Date: n.d. [1950-1970]
Extent: 6 slides
Content: Tables showing distribution of seedlings.
- Reference:** AGB 2/8/10
Title: Apples: shape, colour.
Date: n.d. [1960-1970]
Extent: 10 slides, b/w and colour
Content: 35mm slides of graphs showing consumer preferences in apple and pear appearance and taste, from Italian study. Colour variation in apples.
- Reference:** AGB 2/8/11
Title: [Apple and] Pear. Duplicates.
Date: n.d. [c.1957-1970]
Extent: 10 colour slides
Content: Duplicate copies of slides of apple and pear from main series (AGB 2/6)
- Reference:** AGB 2/8/12
Title: Plum
Date: n.d. [1968x1978?]
Extent: 5 slides
Creator: Slides originally from East Malling Research Station
Content: Colour slides showing plum leaves, fruit and stones, possibly illustrating virus problems in JI plum Merton Gem.
- Reference:** AGB 2/8/13
Title: [Colour transparencies of ornamental plants]
Date: n.d. [1965-1975]
Extent: 7 colour transparencies
Content: Columnea 'Fire Dragon', Koehleria, Streptocarpus.
- Reference:** AGB 2/8/14
Title: Koehleria
Date: n.d. [1965-1975]
Extent: 3 colour slides, 2 unmounted duplicates
- Reference:** AGB 2/8/15
Title: Poinsettia
Date: n.d. [1960-1970]
Extent: 1 colour slide

- Reference:** AGB 2/8/16
Title: Freesia
Date: n.d. [1970-1975]
Extent: 26 slides
Content: 35mm colour slides showing flower mutations in freesia varieties and seedlings.
- Reference:** AGB 2/8/17
Title: Streptocarpus colour variations.
Date: n.d. [c1970 – 1975]
Extent: 86 slides, index.
Content: 35mm colour slides nos. 1-66 (some wanting), plus duplicates, index.
- Reference:** AGB 2/8/18
Title: Streptocarpus
Date: n.d. [1970-1975]
Extent: 11 transparencies
Content: Unmounted 35mm transparencies, apparently from same series as AGB 2/8/17.
- Reference:** AGB 2/8/19
Title: Streptocarpus
Date: n.d. [c.1970-1975]
Extent: 6 slides
Content: Black/white 35mm slides nos. 1-8 (2 wanting) illustrating breeding methods and results (including irradiation).
- Reference:** AGB 2/8/20
Title: Colour slides from Curtis' Botanical Magazine
Date: n.d.
Extent: 4 slides
Content: Colour slides of Anemone Hepatica (Plate 10), Anemone (Hepatica) Angulosa (Pl. 5518), Veronica Hectori (Pl. 7415) taken from Curtis' Botanical Magazine.

- Reference:** GB 440 AGB 3
- Title:** A Gavin Brown Collection: Personal Papers and Ephemera
- Date:** c.1925 - 1987
- Level of Description:** Sub-fonds
- Extent:** 2 boxes, 1 painting.
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- Reference:** AGB 3/1
- Title:** Autobiography
- Date:** n.d. [1975-1987]
- Extent:** 2 files (photocopies and originals)
- Content:** Incomplete autobiography (pp1-11, 23-6, 31-2, 38-9). The first part deals with A Gavin Brown's early life and initial interest in horticulture. The fragmentary portion covers his pre-JI horticultural experience at Craigo House, Kincardineshire (bothy life, general life on a Scottish sporting estate).
- Copies:** Also less complete original (AGB 3/1(2)).
- Related materials:** Oral history interview covering career at JI (audio tape and transcript).
-
- Reference:** AGB 3/2
- Title:** Education and Training
- Date:** 1925-1932 and n.d.
- Extent:** 1 file
- Content:** Educational certificates (school, JIHI, college), reference from JIHI, advertisement and rules and regulations for JIHI horticultural students, 3 photographs.
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- Reference:** AGB 3/3
- Title:** Scrapbook
- Date:** c.1932-1976
- Extent:** 1 scrapbook, 1 envelope
- Content:** Scrapbook containing presscuttings about AG Brown and JIC, photographs, correspondence re MBE and other awards.
- Copies:** Also complete set of photocopies (AGB 3/3(2)).
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- Reference:** AGB 3/4
- Title:** Photograph album
- Date:** c.1928-c.1941
- Extent:** 1 loose-leaf binder (29 pages)
- Content:** Photographs of A Gavin Brown and family, and JIHI (Merton).

- Reference:** AGB 3/5
Title: Photographs
Date: c.1931-1944
Extent: 25 photographs
Content: File of photographs of work and colleagues. Main subjects are bomb damage at Merton 1944, colleagues at JIHI (MB Crane, PT Thomas, JR Price, Miss Sturgess, HN Barber, CDR Dawson, S Wincott, HC Osterstock, A Emarson, L La Cour; JI cricket team 1937)
- Reference:** AGB 3/6
Title: Photographs
Date: c.1925-1975
Extent: 31 photographs
Content: Photographs of A Gavin Brown, events and groups of people, Bayfordbury (mansion, buildings, building of houses at Broadgreen). Plants: food crops 1942, passionflower (probably *Passiflora x caponii* 'John Innes'), lily.
Source: Transferred from photographic (stack 16) collections. Donor unknown.
- Reference:** AGB 3/7
Title: Hogg Memorial Medal
Date: 1960
Extent: 1 medal.
Note: Awarded to AG Brown with the Jones-Bateman Cup.
Location: Stored with other medals awarded to JIHI at 16 C2
- Reference:** AGB 3/8
Title: Veitch Memorial Gold Medal
Date: 1978
Extent: 1 medal.
Note: Awarded to AG Brown for services to horticulture, particularly fruit and flower breeding.
Location: Stored with other medals awarded to JIHI at 16 C2
- Reference:** AGB 3/9
Title: Painting of Roses
Date: n.d.
Extent: 1 watercolour painting, unmounted.
- Reference:** AGB 3/10
Title: Personal ephemera
Date: 1939-1941, 1974
Extent: 5 items
Content: Civil Defence passes, Horticultural Education Association memorabilia.

Reference: AGB 3/11
Title: List of Garden Plants
Date: n.d. [1965-1985]
Extent: 1 binder
Content: Location list of plants in A Gavin Brown's garden at 14 Marion Close, Wymondham (excludes fruit trees).
Note: See also notes from conversation with Mrs A Borrill re AG Brown's garden.

Reference: AGB 3/12
Title: Horticultural Innsignia
Date: 1972
Extent: 1 item
Content: Typescript article on horticultural inn signs.
Publication note: *Journal of the John Innes Society*, 1972.

Reference: AGB 3/13
Title: Lists of photographs
Date: n.d. [c. 1975-1987]
Extent: 1 file
Content: Lists of photographs or slides (not in collection) arranged by subject: alpiners, bulbs, shrubs and conifers, Ericaceae, Gardens, people, 'Horticultural Oddities', 'Plant Hunting at Home', 'Plants in My Garden', 'Inn Signs'. Some are apparently for illustrated talks.

Reference: AGB 3/14
Title: Miscellaneous lists and notes
Date: n.d. [c.1975-1987]
Extent: 1 file
Content: List of literature on alpiners and ornamental plants; list of catalogues indexed.
 Accounts, annotated AGM agenda and notes, Alpine Garden Society (Norfolk group) (1980-1981).
 Accounts, Royal Norfolk Agricultural Association (1977-8)