References

Books

Crawford M., 2001, “Directory Of Apple Cultivars” Agroforestry Research Trust, Devon, UK

Crawford, M., 2010 “Creating A Forest Garden”, Green Books, Devon, UK.

Fern, K., 1997, “Plants For A Future”, Permanent Publications, Hampshire, UK.

Janick, J., 2007, “The Encyclopedia of Fruit and Nuts”, CABI Publishing, UK.

Klinka, A., Krajina, V.J. , Ceska, A., and Scagel, A.M, 1989, “Indicator Plants of Coastal British Columbia”, University of British Columbia Press, Canada.

Mollison B., 1988, “Permaculture”, Tarari Publications, NSW, Australia.

Philbrick H., Gregg R., 1966, “Companion Plants”, The Devlin-Adair Co., Connecticut USA.

Phipps, J. B., 2003, “Hawthorns and Medlars” Timber Press Inc., Oregon, USA.

Skenderi, G., 2003, “Herbal Vade Mecum”, Herbacy Press. Rutherford N.J. USA

Whitefield, P., 2004, “The Earth Care Manual”, Ed Harland M., Permanent Publications, Hampshire, UK.

Web-based references

Hopkins, Donald P., 1948, Chemicals, Humus and the Soil. Brooklyn, NY: Chemical Publishing Company. (via http://www.soilandhealth.org –Agricultural Library)

Howard, A. and Roberts, N., 1997, “Cornish Killas and Granites Natural Area Profile”, English Nature, U.K.
http://www.english-nature.org.uk/science/natural/profiles/naProfile95.pdf

cycleau.com, 2004, “A Profile of the Fowey Catchment – Technical Summary”, http://www.cycleau.com/embedded_object.asp?docid=1004417

Gordon V. Johnson, “Causes and Effects of Soil Acidity”, Oklahoma Cooperative Extension Service, Division of Agricultural Sciences and Natural Resources, Oklahoma State University (OSU).

www.plantstress.com/articles/toxicity_i/cause-effect%20acidity.pdf

Research papers

Altug, A. M.; Kaptan, C., 2002, “Parasite control in organic stockbreeding: possible medicinal plants”, Türktarım No. 148 pp. 71

Ali Anwar; Bhat, G. N.; Dar, M. S.; Rajendra Sharma, 2007, “Evaluation of tissue extract of medicinal plants against rice blast caused by Magnaporthe grisea”, Annals of Plant Protection Sciences, Vol. 15 No. 2 pp. 511-513

Babu, D.; Thapa, D.; Lee JongSuk; Park SuYoung; Kim AhRa; Kim YoungHeui; Yang HongChul; Kim JungAe, 2009, “Inhibitory effects of an aqueous extract of Cornus kousa Burg. Leaves on TNF-α-induced chemokine expression and monocyte adhesion to human colonic epithelial cells”, Archives of Pharmacal Research, Vol. 32 No. 1 pp. 91-98.

Bala, M.; Prasad, J.; Singh, S.; Tiwari, S.; Sawhney, R. C., 2009, “Whole-body radioprotective effects of SBL-1: a preparation from leaves of Hippophae rhamnoides”, Journal of Herbs, Spices & Medicinal Plants, 15, 2, 203-215.

Bahri-Sahloul, R.; Ammar, S.; Fredj, R. B.; Saguem, S.; Grec, S.; Trotin, F.; Skhiri, F. H., 2009, “Polyphenol contents and antioxidant activities of extracts from flowers of two Crataegus azarolus L. varieties.”, Pakistan Journal of Biological Sciences, 12, 9, 660-668.

Bhakuni, R. S.; Shukla, Y. N.; Thakur, R. S., 1987, “Triterpenoids from Cornus capitata”, Phytochemistry, Vol. 26 No. 9 pp. 2607-2610.

Céspedes, C. L.; Guillermo Avila, J.; García, A. M.; Becerra, J.; Flores, C.; Aqueveque, P.; Bittner, M.; Hoeneisen, M.; Martinez, M.; Silva, M., 2006, “Antifungal and antibacterial activities of Araucaria araucana (Mol.) K. Koch heartwood lignans”, Zeitschrift für Naturforschung, Section C, Biosciences, Vol. 61 No. 1/2 pp. 35-43.

Chen WanChao; Cui PengJuan; Sun HuaYing; Guo WeiQing; Yang ChunWu; Jin Hao; Fang Bin; Shi DeCheng, 2009, “Comparative effects of salt and alkali stresses on organic acid

accumulation and ionic balance of seabuckthorn (Hippophae rhamnoides L.)", Industrial Crops and Products, 30, 3, 351-358.

Dong He; Zhang TaiPing; Li Jun; Peng ShiMing; Zhang HeYun, 2009, "The study on inhibition of tumour cells with sitosterol from hawthorn fruits", Chinese Journal of Biochemical Pharmaceutics, 30, 4, 270-272

Grey, C.; Widén, C.; Adlercreutz, P.; Rumpunen, K.; Duan RuiDong, 2010, "Antiproliferative effects of sea buckthorn (Hippophae rhamnoides L.) extracts on human colon and liver cancer cell lines", Food Chemistry, 120, 4, 1004-1010.

Hsu YuWen; Tsai ChiaFang; Chen WenKang; Lu FungJou, 2009, "Protective effects of seabuckthorn (Hippophae rhamnoides L.) seed oil against carbon tetrachloride-induced hepatotoxicity in mice", Food and Chemical Toxicology, 47, 9, 2281-2288.

Jiang WangLin; Chen XiGuang; Zhu HaiBo; Hou Jian; Tian JingWei, 2009, "Cornuside attenuates apoptosis and ameliorates mitochondrial energy metabolism in rat cortical neurons", Pharmacology, Vol. 84 No. 3 pp. 162-170

Johnson, D.L., Doust, J.L. and Eaton, G.W., 1982, "The effect of European Canker and its Spatial Pattern on Four Apple Cultivars in British Columbia", Journal of Applied Ecology, 19, pages 603–609.

Khan, M. M. A. A.; Jain, D. C.; Bhakuni, R. S.; Mohd. Zaim; Thakur, R. S., 1991, "Occurrence of some antiviral sterols in Artemisia annua", Plant Science (Limerick) Vol. 75 No. 2 pp. 161-165

Krisch, J.; Galgóczy, L.; Tölgyesi, M.; Papp, T.; Vágvölgyi, C., 2008, "Effect of fruit juices and pomace extracts on the growth of Gram-positive and Gram-negative bacteria", Acta Biologica Szegediensis, Vol. 52 No. 2 pp. 267-270

Lee YangSuk; Chang ZhiQiang; Oh ByungChul; Park SeungChun; Shin SeungRyeul; Kim NamWoo, 2007, "Antioxidant activity, anti-inflammatory activity, and whitening effects of extracts of Elaeagnus multiflora Thunb.", Journal of Medicinal Food, Vol. 10 No. 1 pp. 126-133.

Li ZhongXing; Wang XiuHua; Zhao JianHong (et al), 2007, “Antibacterial activity for Prunus mume Sieb et Zucc against 308 clinical isolates”, Chinese Journal of Information on Traditional Chinese Medicine, Vol. 14 No. 11 pp. 41-42

Okada, T.; Sawada, T.; Osawa, T.; Adachi, M.; Kubota, K., 2007 , “A novel anti-cancer substance, MK615, from Ume, a variety of Japanese apricot, inhibits growth of hepatocellular carcinoma cells by suppressing Aurora A kinase activity” Hepato-Gastroenterology, Vol. 54 No. 78 pp. 1770-1774

Olszewska, M. A.; Michel, P., 2009, “Antioxidant activity of inflorescences, leaves and fruits of three Sorbus species in relation to their polyphenolic composition”, Natural Product Research Vol. 23 No. 16 pp. 1507-1521

Raese, J. Thomas, 2000, “Relationship of fertilizers on soil ph and fruit disorders of apples and pears”, Communications in Soil Science and Plant Analysis, Volume 31, Issue 17 & 18, pages 2787 – 2792.

Rop, O.; Mlcek, J.; Kramarova, D.; Jurikova, T., 2010, “Selected cultivars of cornelian cherry (Cornus mas L.) as a new food source for human nutrition”, African Journal of Biotechnology, Vol. 9 No. 8 pp. 1205-1210

Rusu, M. A.; Tamas, M.; Puica, C.; Roman, I.; Sabadas, M., 2005, “The hepatoprotective action of ten herbal extracts in CCl4 intoxicated liver”, Phytotherapy Research, Vol. 19 No. 9 pp. 744-749.

Schmeda-Hirschmann, G.; Astudillo, L.; Sepúlveda, B.; Rodríguez, J. A.; Theoduloz, C.; Yáñez, T.; Palenzuela, J. A., 2005, “Gastroprotective effect and cytotoxicity of natural and semisynthetic labdane diterpenes from Araucaria araucana resin”, Zeitschrift für Naturforschung. Section C, Biosciences, Vol. 60 No. 7/8 pp. 511-522.

Sung YunHee; Chang HyunKyung; Kim SungEun; Kim YouMi; Seo JinHee; Shin MinChul; Shin MalSoon; Yi JaeWoo; Shin DongHoon; Kim Hong; Kim ChangJu, 2009, “Anti-inflammatory and analgesic effects of the aqueous extract of corni fructus in murine RAW 264.7 macrophage cells”, Journal of Medicinal Food, Vol. 12 No. 4 pp. 788-795

Szabó, V.; Magyar, L.; Végvári, G.; Sándor, G.; Hrotkó, K., “Fruit growing value and propagation of Chinese hawthorn (Crataegus pinnatifida Bunge)”, 2008, Kertgazdasag - Horticulture, 40, 2, 31-38.
http://www.cabdirect.org/abstracts/20083241497.html

Tadic´, V. M.; Dobric´, S.; Markovic´, G. M.; Đorđevic´, S. M.; Arsic´, I. A.; Menkovic´, N. R.; Stevic´, T., 2008, “Anti-inflammatory, gastroprotective, free-radical-scavenging, and antimicrobial activities of hawthorn berries ethanol extract”, Journal of Agricultural and Food Chemistry, 56, 17, 7700-7709f.

Termentzi, A.; Alexiou, P.; Demopoulos, V. J.; Kokkalou, E., 2008, “The aldose reductase inhibitory capacity of Sorbus domestica fruit extracts depends on their phenolic content and may be useful for the control of diabetic complications”, Pharmazie Vol. 63 No. 9 pp. 693-696

Tiwari, S.; Arya, A.; Tyagi, S.; Prasad, J.; Singh, S.; Vats, P.; Kumar, D.; Jain, S. K.; Bala, M. 2009, “Antioxidant, anti-mutagenic and radioprotective properties of sea buckthorn leaf (Hippophae rhamnoides L.)”, Zeitschrift für Arznei- & Gewürzpflanzen, 14, 2, 83-89

Tunón, H.; Olavsdotter, C.; Bohlin, L., 1995, “Evaluation of anti-inflammatory activity of some Swedish medicinal plants. Inhibition of prostaglandin biosynthesis and PAF-induced exocytosis”, Journal of Ethnopharmacology Vol. 48 No. 2 pp. 61-76

Vareed, S. K.; Schutzki, R. E.; Nair, M. G., 2007, “Lipid peroxidation, cyclooxygenase enzyme and tumor cell proliferation inhibitory compounds in Cornus kousa fruits”, Phytomedicine, Vol. 14 No. 10 pp. 706-709

Xia DaoZong; Wu XiaoQin; Yang Qing; Gong JinYan; Zhang Ying, 2010, “Anti-obesity and hypolipidemic effects of a functional formula containing Prumus mume in mice fed high-fat diet”, African Journal of Biotechnology, Vol. 9 No. 16 pp. 2463-2467

Xu Hong; Xu HouEn; Ryan, D., 2009, “A study of the comparative effects of Hawthorn fruit compound and Simvastatin on lowering blood lipid levels”, American Journal of Chinese Medicine, 37, 5, 903-908.

Yu HyeonHee; Hur JongMoon; Seo SeJeong; Moon HaeDalma; Kim HyunJin; Park RaeKil; You YongOuk, 2009, “Protective effect of ursolic acid from Cornus officinalis on the hydrogen

peroxide-induced damage of HEI-OC1 auditory cells", American Journal of Chinese Medicine, Vol. 37 No. 4 pp. 735-746

Yu WeiWu; Li ZhangJu; Zeng YanRu; Dai WenSheng, 2009, "Measurement of main effective medicinal ingredients of elite cultivars of Cornus officinalis and their quality evaluation", Journal of Zhejiang Forestry College, Vol. 26 No. 2 pp. 196-200

Zhang Wen; Zhao JingJing; Wang JieSi; Pang XiuFeng; Zhuang XiuYuan; Zhu XingLei; Qu WeiJing, 2010, "Hypoglycemic effect of aqueous extract of seabuckthorn (Hippophae rhamnoides L.) seed residues in streptozotocin-induced diabetic rats", Phytotherapy Research, 24, 2, 228-232.

Glossary of latin plant names

latin name	common name & variety
Abies balsamea	Balsam fir
Abutilon vitifolium	Abutilon
Acacia melanoxylon	Blackwood
Acca sellowiana	Feijoa
Acer negundo	Box elder
Acer saccharum	Sugar maple
Achillea ptarmica	Sneeze-wort
Acorus calamus	Sweet flag
Actinidia arguta	Hardy kiwi
Actinidia deliciosa	Kiwi 'Hayward'
Aesculus flava	Sweet Buckeye
Akebia quinata	Akebia
Alliaria petiolata	Garlic mustard
Allium ampeloprasum babbingtonii	Babbington's wild leek
Allium neapolitanum	Daffodil Garlic
Allium sativum	Cultivated garlic
Allium sativum ophioscorodon	Serpent garlic
Allium triquetrum	Three-cornered leek
Allium tuberosum	Garlic chives
Allium vineale	Crow garlic
Armoracia rusticana	Horseradish
Aloysia triphylla	Lemon verbena
Amelanchier alnifolia	Saskatoon
Amelanchier canadensis	Juneberry
Amelanchier lamarckii	Apple Serviceberry
Amelanchier stolonifera	Quebec Berry
Araucana araucaria	Monkey Puzzle tree
Arbutus unedo	Strawberry tree, dwarf type
Aronia prunifolia	Purple chokeberry, 'Serina'
Baccharis halimifolia	Bush Groundsel
Berberis aggregata	Salmon Barberry
Berberis darwinii	Darwin's Barberry
Berberis vulgaris	Barberry
Berberis wilsoniae	Mrs. Wilson's Barberry
Berberis x stenophylla	Hedge barberry

Boehmeria nivea	Ramie
Bunias orientalis	Turkish rocket
Campanula glomerata	Clustered bellflower
Campanula persicifolia	Harebell
Campanula poscharskyana	Trailing Bellflower
Campanula pyramidalis	Chimney bellflower
Caragana arborescens	Siberian peashrub
Castanea pumila	Chinquapin
Castanea sativa	Chestnut
Celtis Australis	Nettle tree
Cephalotaxus spp.	Plum yew
Cercis siliquastrum	Judas tree
Cercis canadensis	Redbud
Chaenomeles unidentified	Quince
Chaenomeles x superba	Dwarf Quince
Circaea lutetiana	Enchanter's nightshade
Cistus albidus	Rock rose
Claytonia sibirica	Pink Purslane
Clethra alnifolia	Sweet pepper bush
Conium maculatum	Hemlock
Cornus capitata	Bentham's Cornel
Cornus controversa	Dogwood
Cornus kousa	Japanese Dogwood
Cornus mas	Cornelian Cherry
Cornus officinalis	Japanese cornelian cherry, Shan Zhu Yu
Corylus avellana	Hazel
Corylus maxima	Filbert
Crataegus arnoldiana	Hawthorn
Crataegus azarolus	Azarole
Crataegus baroussana	Thorn
Crataegus champlainensis	Thorn
Crataegus coccinoides	Kansas Hawthorn
Crataegus durobrivensis	Thorn
Crataegus ellwangeriana	Scarlet hawthorn
Crataegus intricata	Thicket hawthorn
Crataegus laciniata	Thorn
Crataegus pinnatifida major	Chinese Haw "Big Golden Star"

Crataegus schraderiana	Thorn
Crataegus tanacetifolia	Tansy-leaved thorn
Cupressus unidentified	Cypress
Decaisnea fargesii	Blue sausage fruit
Diospyros lotus	Date Plum
Diospyros virginiana	American Persimmon
Drimys winteri	Canelo
Drimys lanceolata	Cornish Pepper Leaf
Elaeagnus commutata	Silverberry
Elaeagnus cordifolia	Elaeagnus
Elaeagnus glabra	Elaeagnus
Elaeagnus macrophylla	Elaeagnus
Elaeagnus multiflora	Goumi
Elaeagnus parvifolia	Small-leaved Elaeagnus
Elaeagnus pungens	Silverthorn
Elaeagnus x ebbingei	Elaeagnus
Elaeagnus x reflexa	Elaeagnus
Ephedra sinica	Ephedra
Eriobotrya japonica	Loquat
Escallonia	Escallonia
Eucalyptus spp.	Eucalyptus
Euonymus europaeus	Spindle tree
Fagopyrum dibotrys	Perenial buckwheat
Fagus sylvatica	Beech
Ficus carica	Fig
Foeniculum vulgare	Fennel
Fragaria vesca	Alpine strawberry
Fraxinus ornuus	Manna ash
Gaultheria shallon	Shallon
Ginkgo biloba	Ginkgo
Griselinia littoralis	Kapuka
Gymnocladus dioica	Kentucky Coffee Tree
Heimia salicifolia	Erva De Vida
Hemerocallis spp.	Day Lily
Hippophae rhamnoides	Seabuckthorn
Hippophae salicifolia	Willow-leaved Seabuckthorn
Ilex crenata	Japanese holly

Inula helenium	Elecampane
Juglans ailanthifolia	Japanese walnut
Juglans ailanthifolia cordiformis	Heartseed Walnut
Juglans regia	Walnut
Juniperus communis	Juniper
Larix spp.	Larch
Lathyrus tuberosus	Earthnut pea
Laurus nobilis	Bay
Leptospermum scoparium	Tea Tree
Leycesteria formosa	Himalayan Honeysuckle
Liriodendron tulipifera	Tulip Tree
Lupinus arboreus	Tree lupin
Mahonia aquifolium	Oregon grape
Mahonia confusa	Mahonia
Mahonia japonica	Mahonia 'Charity'
Mahonia x media	Mahonia Lionel Fortescue
Malus domestica	Apple
Malus domestica x crab	Apple Peter Ratcliffe's seedling
Malus x purpurea	Crab apple
Malva moschata	Musk mallow
Mandragora officinarum	Mandrake
Melissa officinalis	Lemon balm
Mentha spp.	Mint
Menyanthes trifoliata	Bogbean
Metasequoia glyptostroboides	Dawn Redwood
Morus alba	White mulberry
Myrica cerifera	Wax myrtle
Myrrhis odorata	Sweet cicely
Myrtis communis	Myrtle
Nymphaea alba	White Water Lily
Oxalis origana	Redwood sorrel
Peltaria alliacea	Garlic cress
Persicaria odorata	Vietnamese coriander
Petasites hybridus	Butterbur
Philadelphus lewisii	Mock orange, Orange blossom
Pimpinella saxifraga	Burnet Saxifrage
Pinus nigra	Austrian pine

Pinus radiata	Monterey Pine
Polymnia edulis	Yacon
Pontederia cordata	Pickerel weed
Populus nigra	Black Poplar
Prinsepia uniflora	Rui Ren
Prunus americana	American Plum
Prunus armeniaca	Apricot
Prunus avium	Cherry
Prunus cerasifera	Cherry plum
Prunus cerasus austera	Morello cherry
Prunus cerasus	Cherry
Prunus domestica	Plum
Prunus insititia	Damson
Prunus maritima	Beach plum
Prunus mume	Japanese Apricot
Ptelea trifoliata	Hop tree
Pterocarya fraxinifolia	Caucasian Wingnut
Pyrus communis	Wild Pear
Pyrus communis sativa	Pear
Pyrus elaeagnifolia	Pear
Pyrus ussuriensis	Harbin pear
Quercus ilex ballota	Holm oak
Quercus suber	Kermes oak
Quercus coccifera	Cork oak
Quercus spp.	Oak
Reichardia picroides	French Scorzonera
Rhamnus catharica	Common Buckthorn
Rhamnus frangula	Alder Buckthorn
Rhamnus spp.	Buckthorn
Rheum spp.	Rhubarb
Rhus typhina	Stag's Horn Sumach
Ribes menziesii	Canyon Gooseberry
Ribes nigrum	Blackcurrant
Ribes rubrum	Redcurrant
Ribes sativum	White currant
Ribes stenocarpum	Narrow-fruited currant
Ribes uva-crispa	Gooseberry

Rosa rugosa	Ramanas Rose
Rubus idaeus	Raspberry
Rubus phoenicolasius	Japanese Wineberry
Rubus strigosus	North american Raspberry
Rumex acetosa	Polish Sorrel
Rumex alpinus	Alpine dock
Ruscus aculeatus	Butchers Broom
Salix spp.	Willow
Salix viminalis	Osier
Salvia micorphylla	Blackcurrant sage
Salvia officinalis	Sage
Sambucus canadensis	American Elder
Sambucus nigra	Elder
Sanicula europaea	Wood sanicle
Sassafras albidum	Sassafras
Saururus cernuus	Swamp lily
Scutellaria galericulata	Common Skulcap
Smyrnium Perfoliatum	Perfoliate Alexander
Sorbus aria	Whitebeam
Sorbus aucuparia	Rowan
Sorbus commixta	Japanese rowan
Sorbus domestica	Service tree
Sorbus hybrida	Finnish whitebeam
Sorbus intermedia	Swedish Whitebeam
Sorbus mougeotii	Mougeot's Whitebeam
Tamarix spp.	Tamarisk
Taxus Baccata	Yew
Torreya nucifera	Kaya
Torreya californica	California nutmeg
Typha laxmanii	Bulrush
Ulmus parvifolia	Chinese or Lacebark elm
Ulmus procera	English Elm
Vaccinium corymbosum	Blueberry
Valeriana officinalis	Valerian
Valerianella locusta	Corn Salad
Viburnum odoratissimum	Sweet viburnum
Viburnum trilobum	American Cranberry

Viola odorata	Sweet violet
Vitex agnus-castus	Chaste tree
Vitis vinifera	Grapevine
Zanthoxylum piperitum	Japanese pepper tree
Zanthoxylum simulans	Szechuan pepper tree
Sanguisorba minor	Salad Burnet

Penpol Report: Appendices

Glossary of species

The Research

1. Penpol-survey-data.xls
2. Penpol-field-notes.pdf
3. Woodland-survey-L-Turner.pdf
4. Woodland-species1.pdf
5. Woodland-species2.pdf
6. Penpol-invertebrate-survey.pdf
7. Penpol-Breeding-Bird-Survey.pdf
8. PenpolBBS-Results.xls (Breeding Bird Survey data spreadsheet)
9. PFAF-questionnaire.pdf
10. Addy-Fern-interview.pdf
11. Phil-James-interview.pdf

Previous Research etc

1b. Ken's Maps and plant lists

Addy's-Orchard.JPG
Arboretum-Central.JPG
Arboretum-East.bmp
Arboretum-West.bmp
Numbered Beds (folder)
Coppice-Woodland.JPG
Coppice-Woodland2.JPG
Eastern-Rabbit.JPG
Honeyland-East.JPG
Honeyland-West.JPG
Main-Orchard&beds.JPG
Meadow&coppice.JPG

Native-Woodland.JPG
Old-Veg-Beds.JPG
Ornamental-Area.bmp
Penpol-Hedges.pdf
Veg-Salad-Rotation.JPG
WinterSalad-bed1.bmp
WinterSalad-bed2.bmp
WinterSalad-bed3.bmp
Woodland-North.JPG
Woodland-North&Arboretum.JPG
Woodland-Trees&shrubs.pdf

2b. KenFern's-BestPlantsGrown.pdf

3b. Fschuurmans'List–Birds&Butterflies.pdf

The Remit

1a. Penpol Research and Survey Terms of Reference

2a. Scoping Study Report

3a. Research and Survey Terms of Reference update

4a. Research and Survey Terms of Reference update Table

Note on interviews

The interviews with Addy Fern, Phil James and Ken Fern are simply transcribed, to be checked and edited by the interviewee. They are not in any way magazine-type interviews but a record of what the interviewee said, with only the most basic repetitions and colloquialisms edited. The "PFAF questionnaire" (Appendix 8) was used to structure the interviews, with keywords as cues to elicit information, which was, and was expected to be, given in a narrative form. Phil James and Addy Fern have both checked and edited their interviews but Ken Fern unfortunately has not yet done so, so the text of his interview cannot yet be included in the Appendices.