History of Botanical Research associated with Conservation Planning on the Swan Coastal Plain 1994 to 2024 BJ Keighery June 2024 Version 2 email bronwen.keighery@icloud.com

Summary of major contributory programs (modified from Figure 1 Government of WA 2000b and Figure 1 Webb et al 2009). Coloured boxes are digital and/or paper data/papers lodged with DBCA

• Orange 2009 TEB Files

Green 2020 edited plot based data from Wildflower Society of WA compiled by Vanda Longman, with support from Bronwen Keighery

• Yellow 2024 B. Keighery paper files

• Aqua additions Version 2

1963 to 1993: Background

Year	EPA/DEP (and precursors)	NPNCA/CALM
1963	Australian Academy of Science Committee on National Parks	
1972	EPA established Conservation through Reserves Committee (CTRC) to review conservation reserves throughout Western Australia	Biological Survey Program (1972 ongoing)
	CTRC reported on 11 of the 12 Systems (Red Books)	
1974	Draft System 1 report (CTRC 1974)	
1976	System 1 Report (DCE 1976)	
1980	Vegetation complex mapping (Heddle et. al 1980)	
1981	System 6 'Green Book' (Draft System 6 report (DCE 1981))	
1982		Rare Flora surveys (1982 ongoing)
1983	System 6 Red Book (DCE 1983)	
1991	Ecoplan strategy (1991 ongoing). Program to support Friends groups for System 6 areas and outline roles EPA, delivered by workshops, field days, newsletter (Ecoplan News). To DBCA in ?2000, newsletter (Bushland News).	Floristic Survey of the Swan Coastal Plain (1991-94) (Gibson <i>et. al.</i> 1994)
1993	Red Book Status Report (Review of status of all Systems recommendations)	Threatened Ecological Communities Project (1993 ongoing) (English & Blyth 1997, 1999)

1994 to 2006: Lead Agency EPA/DEP

Year	EPA/DEP	NPNCA/DBCA (and precursors)
1994	System 6 and part System 1 Update initiated by the EPA covers area Moore River south to Dunsborough (including additional surveys, 1994 ongoing). EPA listed Areas in need of Interim Protection (1994)	
1995	System 6 and part System 1 Update Program - public submissions, ongoing surveys (DEP 1996, 1998)	
1996	System 6 and part System 1 Update Program analysis of data in Keighery et al 2020a. Published in part in Gov of WA 2000b. CONSERVATION SCIENCE LIBRARY 2024a	Folders of analysis by Neil Gibson; interpretation N Gibson and BJ Keighery; and descriptions supplementary group BJ Keighery (Gov of WA 2000b).
1997	System 6 and part System 1 Update: confined to Swan Coastal Plain portion of the Perth Metropolitan Region with Ministry for Planning, Water and Rivers Commission and CALM	Gnangara Park (Bailey 1997)
1998	Perth's Bushplan (draft Bush Forever) with Ministry for Planning, Water and Rivers Commission and CALM (Government of WA 1998a and b)	Perth's Bushplan with Ministry for Planning, Water and Rivers Commission and DEP (Government of WA 1998a and b)
2000	Bush Forever with Ministry for Planning, Water and Rivers Commission and CALM (Government of WA 2000a and b)	
2001 - 2004	System 6 and Part System 1 Update – project continued for Swan Coastal Plain excluding Perth Metropolitan Region with CALM on much reduced basis.	Ongoing identification and acquisition of areas of significance.
2004 - 2006	Swan Bioplan specific funding to DEP for System 6 and Part System 1 Update – funding allowed for the expansion of work and liaison/work with CALM, local government, Department Planning and Infrastructure and community groups. Boundary expanded to include Darling and Whicher Scarps.	Ongoing identification and acquisition of areas of significance.
2006	Swan Bioplan report on Peel area released (Keighery et al 2006). Contained plot data for Peel region.	Keighery et al 2006

2007 to 2024: Lead Agency DEC/DPaW/DBCA

Year	Conservation departments-DEC/DPaW/DBCA	Library Resource/DBCA database
2007	Swan Bioplan now in Department of Environment and Conservation after amalgamation of DoE and CALM	

Year	Conservation departments-DEC/DPaW/DBCA	Library Resource/DBCA database
2008	Swan Bioplan report Whicher Scarp released (Keighery et al 2008). Contains plot data for all SWAFCTs and WHSFCTs found on Whicher Scarp and adjacent Swan Coastal Plain. Analysis for WHSFCTs. Taxa amalgamations defined.	Keighery et al 2008
2009	Swan Bioplan report Busselton Plain (Webb et al 2009). Contains plot data, GIS map of regionally significant natural areas (Busselton Plain Reference Areas), and GIS updated vegetation complex boundaries (contact Andrew Webb DBCA).	Webb et al 2009/Busselton Plain GIS set
2009	Swan Bioplan report on flora and vegetation of the Dawesville to Binningup Region (Swan Coastal Plain) (Freeman et al 2009). Includes report on Yalgorup National Park.	Freeman et al 2009
2009	Swan Bioplan–Terrestrial Ecosystem Branch (TEB) files to Conservation Science Library - biological files - Maps all SWAFCTs identified in 1996 analysis (allied with those Gisbson et al 1994 and supplementary groups identified/described Perth's Bushplan Gov WA 1998) CONSERVATION SCIENCE LIBRARY 2009	 TEB files as paper and digital in following coded groups (total 714 files). TEB-BF-1 to 237 = Bush Forever TEB-CT6-1 to 145 = Conservation through Reserves, System 6 TEB-DFC-MAP-01a to 30b = Maps SWAFCT's 1996 Analysis all SWA quadrats. TEB-DFC-MAP-s1 to s20 = Maps SWAFCT's 1996 Analysis SWA quadrats. TEB-IPA-misc numbers = Interim Protection Areas (EPA 1994) TEB-TEB-ROV-1 to 5= Resource files, specific topic/area TEB-SB-misc numbers = Swam Bioplan areas TEB-SBBUS-misc numbers = Swan Bioplan Busselton sector areas
2010?	EPA Service Unit Swan Bioplan continued, one staff Bronwen Keighery.	
2010	Swan Bioplan report 'Swan Bioplan - Regionally Significant Natural Areas in the Peel Region (Peel RSNAs)' EPA Bulletin No 12. December 2009. GIS dataset areas.	EPA Bulletin No 12 2009
2012	Swan Bioplan mothballed, Bronwen Keighery made redundant. System 6 Update/Swan Bioplan project with Conservation side department.	
2013	Department of Environment and Conservation (DEC) dissolved becomes Department of Parks and Wildlife (DPaW) and Department Environmental Regulation. Mothballed System 6 Update/Swan Bioplan project with DPaW.	
2017	Department of Parks and Wildlife amalgamated Botanic Gardens and Parks Authority, Zoological Parks Authority and Rottnest Island Parks Authority for Department Biodiversity, Conservation and Attractions (DBCA) formed 1 July. Mothballed System 6 Update/Swan Bioplan project with DBCA.	

Year	Conservation departments-DEC/DPaW/DBCA	Library Resource/DBCA database
2020	2020 Set five floristic datasets established by the Wildflower Society of Western Australia in collaboration with the Department of Biodiversity, Conservation and Attractions CONSERVATION SCIENCE LIBRARY 2020	Keighery et al 2020 a to e database in DBCA Sharepoint File (DBCA CONTACT KAREN CLARKE). Copy in the Library.
2024	Copy and/or original field data Keighery et al 2020 a, c, d and e databases CONSERVATION SCIENCE LIBRARY 2024b	Files datasheets in a folder for each bushland area (see TEB files for other information n Bushland areas). A scanned set is available.
2024	Whicher Scarp Raw data	Andrew Webb, Southwest Region DBCA

Departmental Acronyms

AgWest = Agriculture Western Australia

DBCA = Department of Biodiversity, Conservation and and Attractions

DCE = **Department of Conservation and Environment** - refer to DCE.

CALM = **Department of Conservation and Land Management** - refer to CALM.

CTRC = Conservation Through Reserves Committee to the Environmental Protection Authority

DEP = Department of Environmental Protection

EPA = Environmental Protection Authority

NPNCA = National Parks and Nature Conservation Authority

WRC = Water and Rivers Commission

References

DCE 1976 *Conservation Reserves for Western Australia. As recommended by the Environmental Protection Authority. System 1, 2, 3, 5.* Department of Conservation and Environment, Perth, Western Australia.

DCE 1983 Conservation Reserves for Western Australia. The Darling System - System 6. Parts 1 and 2. Report 13. Department of Conservation and Environment, Perth, Western Australia.

EPA 1994 GIS *Threatened or Poorly Reserved Plant Communities Requiring Interim Protection*. Environmental Protection Authority, Perth, Western Australia.

Kelly Freeman, Bronwen Keighery, Greg Keighery, Vanda Longman, Andrew Black, Shaun Molloy 2009 The Flora and Vegetation of the Dawesville to Binningup Region (Swan Coastal Plain). A report for the Environmental Protection Authority as part of the Swan Bioplan Project. Department of Environment and Conservation.

- **Gibson N, Keighery BJ, Keighery GJ, Burbidge AH & Lyons MN** 1994 A Floristic Survey of the Southern Swan Coastal Plain. Unpublished Report for the Australian Heritage Commission prepared by Department of Conservation and Land Management and the Conservation Council of Western Australia (Inc).
- Government of WA 1998a Perth's Bushplan Volume 1. Published by the Western Australian Planning Commission, Perth, WA.
- Government of WA 1998b Perth's Bushplan Volume 2: Directory of Bush Forever Sites Published by the Department of Environmental Protection, Perth, WA.
- Government of WA 2000a Bush Forever Volume 1: Policies Principles and Processes. Ministry for Planning, Perth, Western Australia.
- Government of WA 2000b Bush Forever Volume 2: Directory of Bush Forever Sites. Department of Environmental Protection, Perth, Western Australia.
- Keighery BJ, Dell J, Keighery GJ, Madden M, Longman VM, Green B, Webb A, McKenzie B, Hyder B, Ryan R, Clarke KA, Harris E, Whisson G, Olejnik C and Richardson A 2006 The Vegetation, Flora, Fauna and Natural Areas of the Peel Harvey Eastern Estuary Area Catchment (Swan Coastal Plain). A report for the Department of Environment and Conservation as a contribution to the Peel Harvey Eastern Estuary Area Catchment Environmental Assessment Project and Swan Bioplan Project.
- Keighery BJ, Keighery GJ, Webb A, Longman VM, Griffin EA 2008 A floristic survey of the Whicher Scarp. Department of Environment and Conservation, Perth. 272 p.
- Keighery BJ, Keighery GJ, Longman VM and Clarke KA 2020a Report/Database/GIS Native and weed flora of the southern Swan Coastal Plain: 2005 dataset. A report, database and shapefile produced by the Wildflower Society of Western Australia (Inc.) and Department of Biodiversity, Conservation and Attractions using survey data originally from the Bush Forever Project work at the Department of Environmental Protection.
- **Keighery GJ, Webb A, Longman VM and Griffin EA 2020b** Report/Database/GIS A floristic survey of the Whicher Scarp dataset. A report, database and shapefile produced by the Wildflower Society of Western Australia (Inc.) and Department of Biodiversity, Conservation and Attractions using survey data originally from the Swan Bioplan Project at the Department of Environment and Conservation.
- Keighery BJ, Keighery GJ, Longman VM and Clarke KA 2020c Report/Database/GIS Swan Bioplan floristic studies of the southern Swan Coastal Plain dataset. A report, database and shapefile produced by the Wildflower Society of Western Australia (Inc.) and Department of Biodiversity, Conservation and Attractions using survey data originally from the Swan Bioplan Project at the Department of Environment and Conservation.

- Keighery **BJ, Keighery GJ, Longman VM and Clarke KA 2020d** Report/Database/GIS *Wildflower Society of Western Australia Bushland Plant Survey Program Swan Coastal Plain surveys*. A report, database and shapefile produced by the Wildflower Society of Western Australia (Inc.), in collaboration with the Department of Biodiversity, Conservation and Attractions.
- Keighery BJ, Keighery GJ, Gunness AG, Longman VM and Clarke KA 2020e Report/Database/GIS Wildflower Society of Western Australia Bushland Plant Survey Program Wheatbelt surveys. A report, database and shapefile produced by the Wildflower Society of Western Australia (Inc.), in collaboration with the Department of Biodiversity, Conservation and Attractions.
- Webb A, Keighery BJ, Keighery GJ, Longman V, Black A and O'Connor A 2009 The Flora and Vegetation of the Busselton Plain (Swan Coastal Plain). A report for the Department of Environment and Conservation as part of the Swan Bioplan Project.