MORGAN AND MORECAMBE OFFSHORE WIND FARMS: TRANSMISSION ASSETS

Sand Lizard Survey Data Technical Note

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Glossary

Term	Meaning
400 kV grid connection cables	Cables that will connect the proposed onshore substations to the existing National Grid Penwortham substation.
400 kV grid connection cable corridor	The corridor within which the 400 kV grid connection cables will be located.
Onshore Order Limits	Onshore Order Limits See Transmission Assets Order Limits: Onshore (below).
Onshore substations	The onshore substations will include a substation for the Morgan Offshore Wind Project: Transmission Assets and a substation for the Morecambe Offshore Windfarm: Transmission Assets. These will each comprise a compound containing the electrical components for transforming the power supplied from the generation assets to 400 kV and to adjust the power quality and power factor, as required to meet the UK Grid Code for supply to the National Grid.
Special Protection Areas	A site designation specified in the Conservation of Habitats and Species Regulations 2017, classified for rare and vulnerable birds, and for regularly occurring migratory species. Special Protection Areas contribute to the national site network.
Transmission Assets	The area within which all components of the Transmission Assets will be located, including areas required on a temporary basis during construction and/or decommissioning.
Transmission Assets Order Limits	The area within which all components of the Transmission Assets landward of Mean High Water Springs will be located, including areas required on a temporary basis during construction and/or decommissioning (such as construction compounds). Also referred to in this report as the Onshore Order Limits, for ease of reading.

Acronyms

Acronym	Meaning
CIEEM	Chartered Institute of Ecology and Environmental Management
CoCP	Code of Construction Practice
DCO	Development Consent Order
ECoW	Ecological Clerk of Works
EPS	European Protected Species
ES	Environmental Statement
EMP	Ecological Management Plan
FBC	Fylde Borough Council
NVC	National Vegetation Classification
OEMP	Outline Ecological Management Plan
SPA	Special Protection Area
SSSI	Site of Special Scientific Interest
UK	United Kingdom

Units

Unit	Description
%	Percentage
dB	Decibels
Kg	Kilogram
kHz	Kilohertz
KJ	Kilojoules
km	Kilometres
km^2	Kilometres squared
kV	Kilovolt
m	Metres
m^2	Metres squared
m^3	Metres cubed
nm	Nautical mile
µPa	micropascal

1 Overview

1.1 Introduction

1.1.1.1 This technical note has been prepared to provide further details on the sand lizard survey data used to inform the assessment of impacts to sand lizards presented in Volume 3 Chapter 3: Onshore ecology and nature conservation (APP-075), and to submit into the examination the most up-to-date survey data provided to the Applicants by Fylde Borough Council (FBC) after Deadline 4.

1.1.1.2 The Applicants maintain that there is no requirement to undertake specific surveys for sand lizard for the Transmission Assets project because sufficient (and extensive) survey data are available from the annual monitoring undertaken of the sand lizard population by the Fylde Sand Dunes Project, gathered over multiple survey seasons.

1.1.1.3 This note therefore summarises the results of the annual sand lizard monitoring surveys undertaken by Fylde Sand Dunes Project in 2022, 2023, 2024 and 2025.

~~1.1.1.3~~1.1.1.4 This technical note has been updated to reflect comments received from Fylde Borough Council at Deadline 5 and issues raised by the~~m~~ Council at the Issue Specific Hearing held on 7th October 2025.

1.2 Objectives of the Monitoring Surveys

1.2.1.1 Annual monitoring of the sand lizard population is undertaken by the Fylde Sand Dunes Project to generate 'heat maps' showing the grouped location of sand lizard sightings (to assist with understanding the distribution of the species within the dunes), and a record of the age class and sex of individuals observed is noted where it could be determined by the surveyors.

1.2.1.2 Survey data are gathered from visual observations by experienced and appropriate licensed surveyors as they walk through the dunes, all areas of which are accessible on foot.

2 Sand Lizard Survey Data

2.1 Background

2.1.1.1 The sand lizard population at Lytham St Anne's dunes disappeared in the 1960s due to predation and habitat loss along the coastline. A captive-bred release programme resulted in the re-introduction of sand lizard to the dunes between 2017 and 2021, alongside successful habitat enhancement works (such as the burying of Christmas trees to encourage dune accretion) by the Fylde Sand Dunes Project.

2.1.1.2 A total of 412 captive-bred sand lizard hatchlings have been re-introduced over this period, and monitoring is undertaken annually[1].

2.2 Ecology

2.2.1.1 Due to habitat loss sand lizards are only naturally found in the UK in Surrey, Dorest, Hampshire and in the Sefton Coast (Amphibian and Reptile Conservation, 2025), with around 80% of the population found in Dorset and substantial populations also found in Hampshire, Surrey and the Sefton Coast (Natural England, 2007). They are found in heathland and frontal sand dune habitats.

2.2.1.2 The species requires both mature sunny habitats (with adequate ground cover to allow predator avoidance), and open undisturbed sand in which to lay their eggs. Generally sand lizards prefer a small-scale mosaic of low-level vegetation, bare ground, and limited scrub. They are always found on free-draining substrates, often with high sand content. They prefer south-facing slopes, banks or tracks with bare sandy patches. As a result, a population can have a restricted distribution even with protected sites.

2.2.1.3 Sand lizards hibernate over winter in burrows or crevices in the ground and emerge from late March to April. Courtship occurs from April-May. Females lay 4-12 eggs in late May or early June. Eggs are buried in sand that is exposed to the sun which helps to keep them warm. Eggs hatch from late August to September. Juveniles take around two years to reach sexual maturity.

2.3 Survey Area

2.3.1.1 The Survey Area for the sand lizard monitoring surveys undertaken by the Fylde Sand Dunes Project comprises the coastal dunes, dune heaths and dune slacks that lie on the western side of Clifton Drive North, stretching from North Beach car park in the south up to Starr Gate in the north.

2.3.1.2 Most of the dune habitats are within the boundary of the Lytham St Anne's Dunes SSSI, although there has been seaward accretion of the dunes beyond the mapped SSSI boundary due to favourable management interventions in recent years. Habitats suitable for, and used by, sand lizard

[1] Fylde Sand Dunes Project webpage: https://www.lancswt.org.uk/our-work/projects/fylde-sand-dunes

therefore occur up to c. 30 m seaward of the mapped SSSI boundary, as well as within the SSSI. A plan showing the most recent National Vegetation Classification (NVC) survey undertaken by the Applicants, which indicates the extent of the dunes, is provided in the Phase 1 Habitat, National Vegetation Classification and Hedgerow Survey (F3.3.3).

2.4 Annual Monitoring Results

2.4.1 Peak Counts

2.4.1.1 The survey data provided by Fylde Borough Council include the peak and cumulative counts, point locations of observations, sex and age class (where recorded) and annual trends in distribution for sand lizard on the dunes collected over several years. Data from surveys undertaken in 2022, 2023, 2024 and to date in 2025 (surveys ongoing) have been provided.

2.4.1.2 As the data has been provided by a third party there are some restrictions on what data can be presented due to confidentiality requirements e.g. names of surveyors and the grid references of sand lizard observations.

2.4.1.3 Detailed survey results are provided in Appendix A and a summary of the data provided is outlined in Table 1 below.

2.4.1.4 There was a peak count of eight sand lizards on surveys undertaken in 2022 and in 2023 (graphs 1 and 2). The peak count of individuals and the total number of records for 2022 and 2023 (60 and 61 respectively) indicate a stable population in those years. There appears to have been a slight increase in the population in 2024, with a peak count of nine (graph 3), which was recorded on two separate days, with a cumulative total of 96 records.

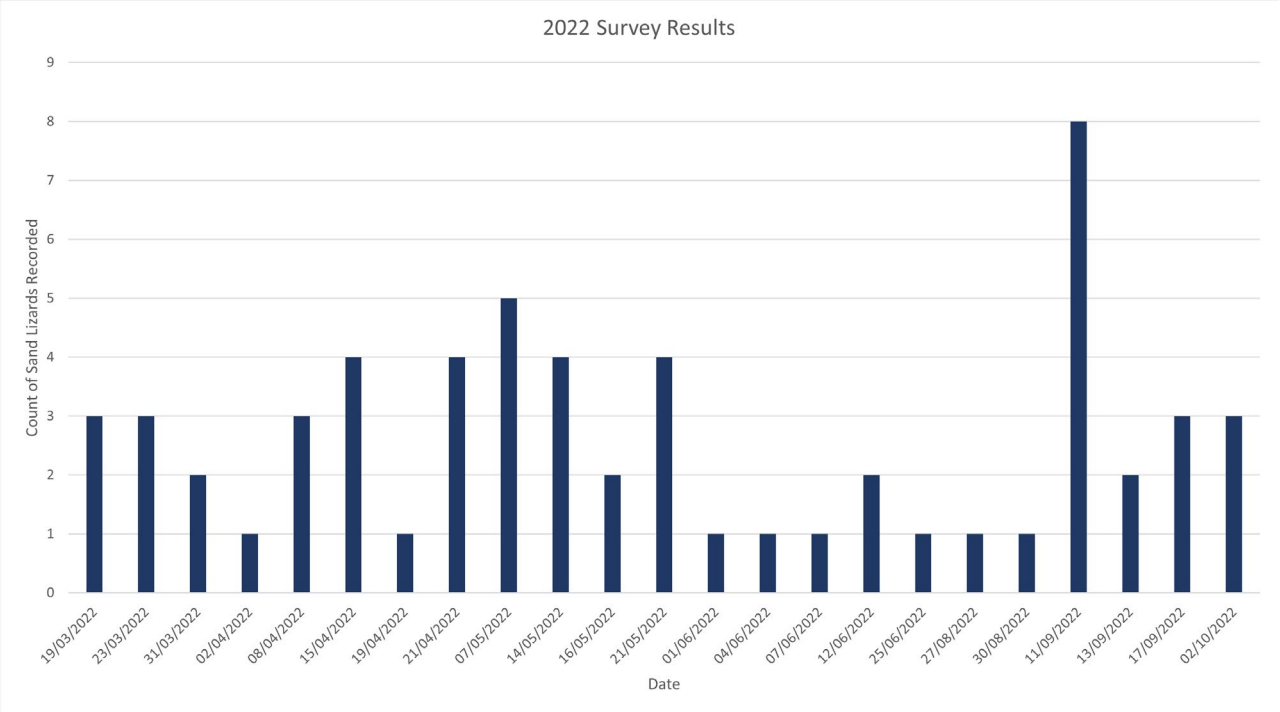
2.4.1.5 The peak count for the 2025 surveys undertaken to date has again increased, with 14 individuals observed in April 2025.

~~2.4.1.6 The population is comprised of approximately 14 adult females and a fluctuating number of adult males, with total records of males ranging from 14 to 43 recorded between years (possibly due to certain individuals being more prominent and being recorded frequently on each survey visit).~~

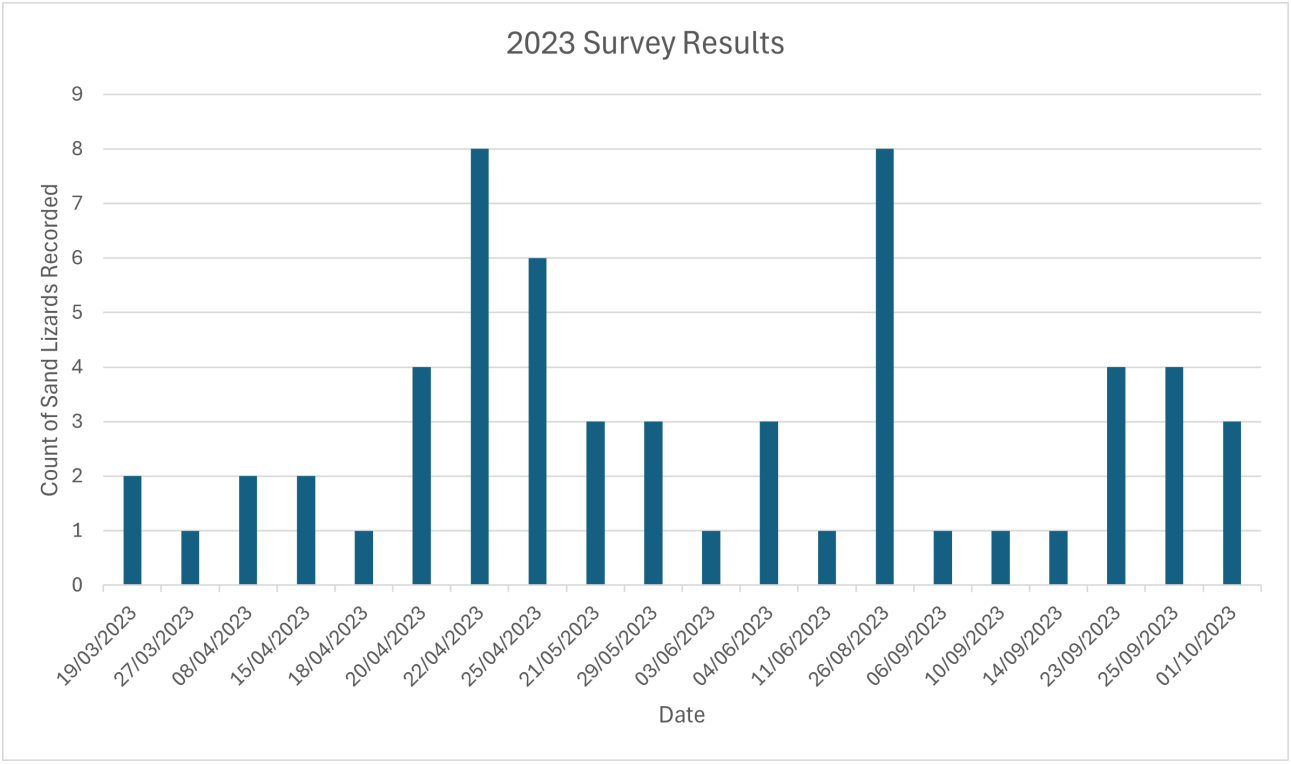
~~2.4.1.7~~2.4.1.6 In 2023 the specific number of hatchlings was recorded, but in subsequent years this has only been recorded as Juveniles, with a note on birth year indicating that the majority are considered to have hatched in the year they were recorded.

~~2.4.1.8~~2.4.1.7 A summary of the sand lizard records over the surveyed period (peak counts per survey) is provided in Table 1~~Table 2~~.

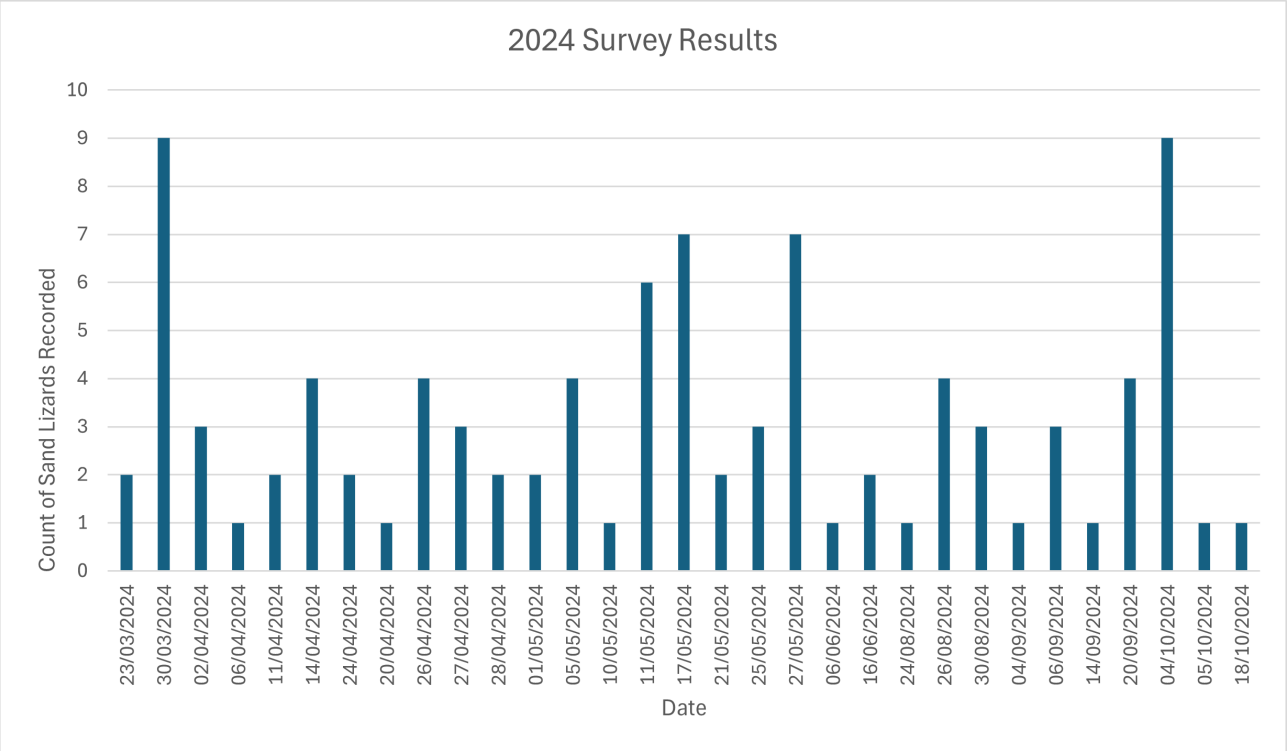
Graphs showing the peak counts per survey are provided as Graphs 1 (2022), 2 (2023), 3 (2024) and 4 (2025). A graph showing the combined totals is provided as Graph 5.



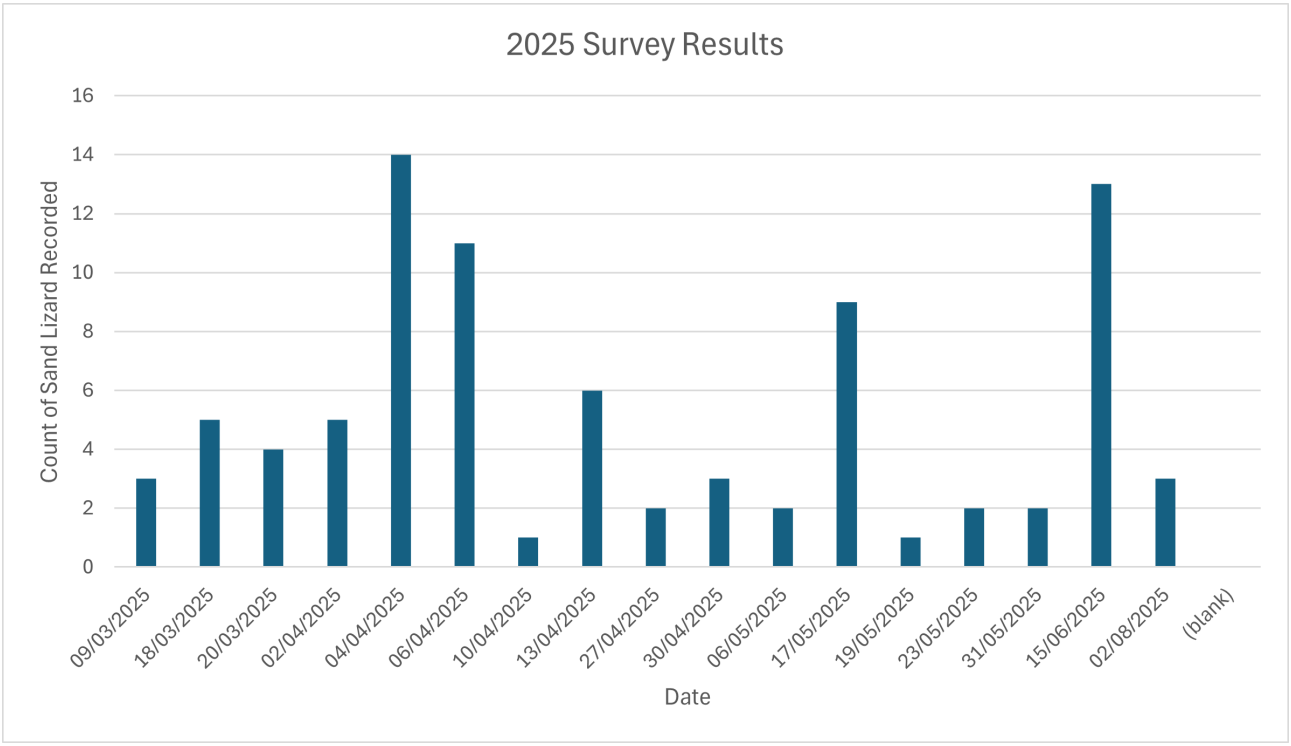
Graph 1: 2022 survey results – peak count per survey



Graph 2: 2023 survey results – peak count per survey



Graph 3: 2024 survey results – peak count per survey



Graph 4: 2025survey results – peak count per survey

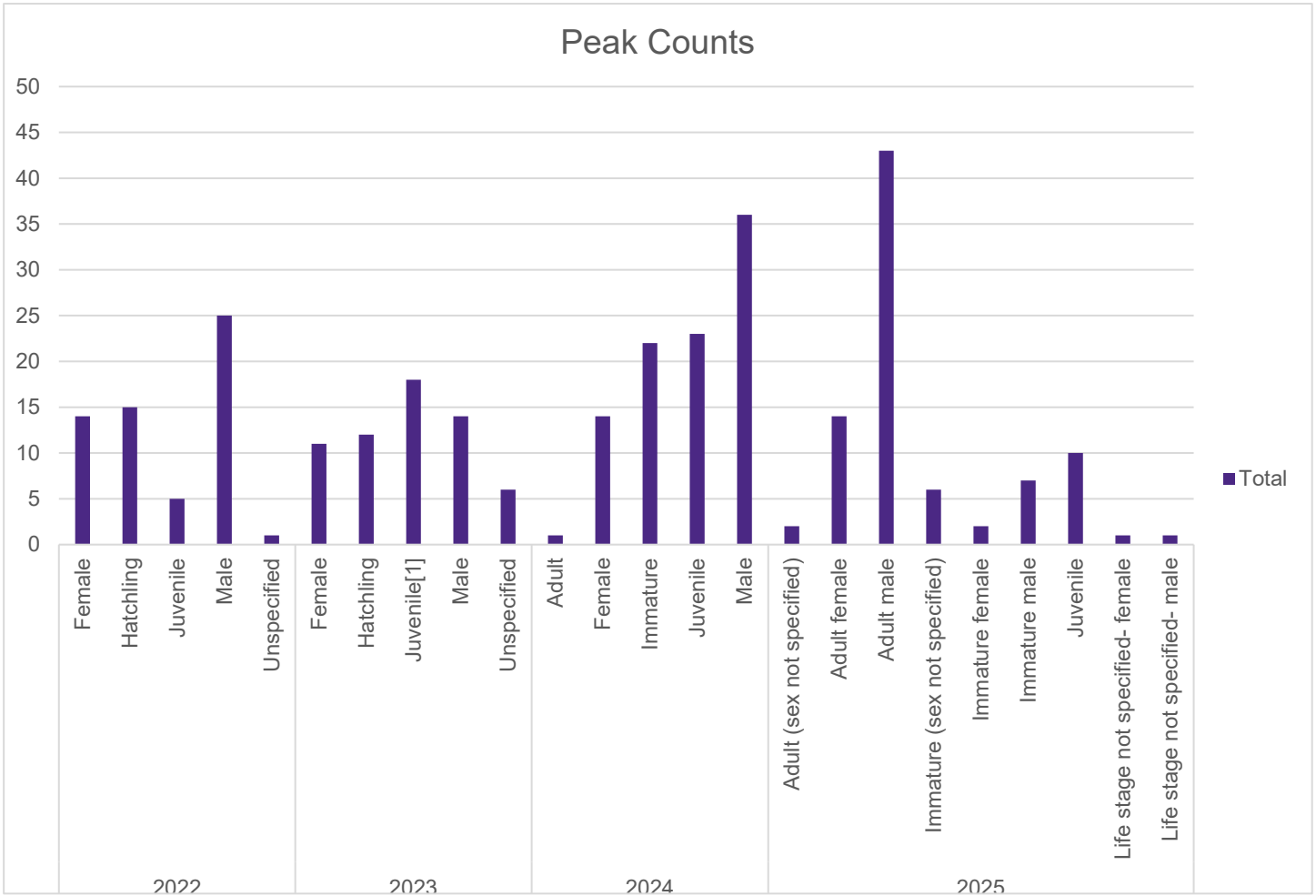
Table 1: Peak Sand Lizard Counts 2022-2025[2]

Year	Life stage/ gender								
	Adult			Juvenile	Immature			Hatchling	Unspecified
	Female	Male	Unspecified		Female	Male	Unspecified		
2022	14	25		5				15	1
2023	11	14		18[3]				12	6
2024	14	36	1	23			22		
2025 (to date)	14	43	2	10	2	7	6		2[4]

[2] 2025 data is still being collected at the time of writing

[3] Includes those listed as “sub-adult”

[4] 1 unspecified life stage female and 1 unspecified life stage male



Graph 5: Total peak counts per survey 2022 – 2025

2.5 Heat Maps

2.5.1.1 The point count data collected by the surveyors is used to generate 'heat maps' showing the distribution of sand lizard throughout the dunes. The point count data is confidential; however, the heat maps of sand lizard records are shown in Figures 1 to 3 for the surveys undertaken in 2022, 2023 and 2024. The heat map for the 2025 surveys has not yet been prepared because the surveys are still ongoing at the time of writing this report.

2.5.1.2 The heat maps provided by Fylde Borough Council show that the population is largely centred in the southern 'half' of the dunes, on the south side of the beach access road off Clifton Drive North down to the footpath adjacent to North Beach Car Park.

2.5.1.3 The 2022 survey recorded relatively isolated records north of the beach access road off Clifton Drive North (Figure 1). However, the 2023 records indicated that the population had expanded further to the north, with a hot spot of activity on the dune accretion area at the seaward end of the beach access road (which supports a large area of bare sand) and on the southern face of the dunes along the northern edge of the beach access track (Figure 2).

2.5.1.4 The northerly trend in expansion was also evident from the 2024 survey data, with the survey data indicating a more even distribution of records along the frontal dune systems extending primarily south from the beach access road (Figure 3). The 2024 data also indicated continuing hotspots along the beach access road, with the records primarily associated with the bare sand on the south-facing dune slope on the northern side of the beach access road, with records extending further inland towards Clifton Drive North than in previous years.

Figure 1: 2022 heat map of sand lizard occurrence (provided by Fylde Borough Council)

Figure 2: 2023 heat map of sand lizard occurrence (provided by Fylde Borough Council)

Figure 3: Heat map of 2024 sand lizard occurrence (provided by Fylde Borough Council)

3 References

Amphibian and Reptile Conservation (2025) https://www.arc-trust.org/sand-lizard.

Natural England (2007) Sand lizard: European protected species. Natural England Species Information Note SIN008.

Appendix A

A.1.1 Survey results 2022

Date	Species	Sex/ life stage	Survey method
19/03/2022	Sand lizard	M	Visual
19/03/2022	Sand lizard	M	Visual
19/03/2022	Sand lizard	M	Visual
23/03/2022	Sand lizard	F	Visual
23/03/2022	Sand lizard	JUVENILE	Visual
23/03/2022	Sand lizard	JUVENILE	Visual
31/03/2022	Sand lizard	JUVENILE	Visual
31/03/2022	Sand lizard	F	Visual
02/04/2022	Sand lizard	M	Visual
08/04/2022	Sand lizard	M	Visual
08/04/2022	Sand lizard	M	Visual
08/04/2022	Sand lizard	M	Visual
15/04/2022	Sand lizard	M	Visual
15/04/2022	Sand lizard	M	Visual
15/04/2022	Sand lizard	M	Visual
15/04/2022	Sand lizard	M	Visual
19/04/2022	Sand lizard	M	Visual
21/04/2022	Sand lizard	M	Visual
21/04/2022	Sand lizard	M	Visual
21/04/2022	Sand lizard	M	Visual
21/04/2022	Sand lizard	M	Visual
07/05/2022	Sand lizard	M	Visual
07/05/2022	Sand lizard	M	Visual
07/05/2022	Sand lizard	M	Visual
07/05/2022	Sand lizard	F	Visual
07/05/2022	Sand lizard	N/A	Visual
14/05/2022	Sand lizard	M	Visual
14/05/2022	Sand lizard	F	Visual
14/05/2022	Sand lizard	JUVENILE	Visual
14/05/2022	Sand lizard	F	Visual

Date	Species	Sex/ life stage	Survey method
16/05/2022	Sand lizard	M	Visual
16/05/2022	Sand lizard	JUVENILE	Visual
21/05/2022	Sand lizard	M	Visual
21/05/2022	Sand lizard	M	Visual
21/05/2022	Sand lizard	F	Visual
21/05/2022	Sand lizard	F	Visual
01/06/2022	Sand lizard	M	Visual
04/06/2022	Sand lizard	F	Visual
07/06/2022	Sand lizard	F	Visual
12/06/2022	Sand lizard	M	Visual
12/06/2022	Sand lizard	F	Visual
25/06/2022	Sand lizard	F	Visual
27/08/2022	Sand lizard	H	Visual
30/08/2022	Sand lizard	H	Visual
11/09/2022	Sand lizard	F	Visual
11/09/2022	Sand lizard	F	Visual
11/09/2022	Sand lizard	H	Visual
11/09/2022	Sand lizard	H	Visual
11/09/2022	Sand lizard	H	Visual
11/09/2022	Sand lizard	H	Visual
11/09/2022	Sand lizard	H	Visual
11/09/2022	Sand lizard	H	Visual
11/09/2022	Sand lizard	H	Visual
13/09/2022	Sand lizard	H	Visual
13/09/2022	Sand lizard	F	Visual
17/09/2022	Sand lizard	H	Visual
17/09/2022	Sand lizard	H	Visual
17/09/2022	Sand lizard	H	Visual
02/10/2022	Sand lizard	H	Visual
02/10/2022	Sand lizard	H	Visual
02/10/2022	Sand lizard	H	Visual

A.1.2 Survey results 2023

Date	Species	Sex/ life stage	Survey method
19/03/2023	Sand lizard	Male	Visual
19/03/2023	Sand lizard	Juvenile	Visual
27/03/2023	Sand lizard	Female	Visual
08/04/2023	Sand lizard	Male	Visual
08/04/2023	Sand lizard	Juvenile in cup	Visual
15/04/2023	Sand lizard	Male	Visual
15/04/2023	Sand lizard	Juvenile	Visual
18/04/2023	Sand lizard	Male	Visual
20/04/2023	Sand lizard	Juvenile	Visual
20/04/2023	Sand lizard	Juvenile	Visual
20/04/2023	Sand lizard	Female	Visual
20/04/2023	Sand lizard	Male	Visual
22/04/2023	Sand lizard	Female	Visual
22/04/23	Sand lizard	Juvenile	Visual
22/04/2023	Sand lizard	Juvenile	Visual
22/04/2023	Sand lizard	Male	Visual
22/04/2023	Sand lizard	Female	Visual
22/04/2023	Sand lizard	Juvenile	Visual
22/04/2023	Sand lizard	Juvenile	Visual
22/04/2023	Sand lizard	Juvenile	Visual
25/04/2023	Sand lizard	Sub adult male	Visual
25/04/2023	Sand lizard	Female	Visual
25/04/2023	Sand lizard	Male	Visual
25/04/2023	Sand lizard	Juvenile	Visual
25/04/2023	Sand lizard	Juvenile	Visual
25/04/2023	Sand lizard	Sub adult male	Visual
21/05/2023	Sand lizard	Small male	Visual
21/05/2023	Sand lizard	Small female	Visual
21/05/2023	Sand lizard	Juvenile	Visual
04/6/2023	Sand lizard	Male	Visual
04/6/2023	Sand lizard	Male	Visual

Date	Species	Sex/ life stage	Survey method
04/6/2023	Sand lizard	Juvenile	Visual
29/5/2023	Sand lizard	2 adult females	Visual
29/5/2023	Sand lizard	1 Young Male	Visual
29/5/2023	Sand lizard	1 adult female (damaged tail)	Visual
3/06/2023	Sand lizard	Female	Visual
11/06/2023	Sand lizard	Male	Visual
26/08/2023	Sand lizard	Male	Visual
26/08/2023	Sand lizard	Female	Visual
26/08/2023	Sand lizard	Male	Visual
26/08/2023	Sand lizard	Hatchling	Visual
26/08/2023	Sand lizard	Hatchling	Visual
26/08/2023	Sand lizard	Hatchling	Visual
26/08/2023	Sand lizard	Hatchling	Visual
26/08/2023	Sand lizard	Hatchling	Visual
10/09/2023	Sand lizard	Hatchling	Visual
6/09/2023	Sand lizard	Hatchling	Visual
23/09/2023	Sand lizard	Hatchling	Visual
23/09/2023	Sand lizard	Hatchling	Visual
23/09/2023	Sand lizard	Hatchling (new)	Visual
23/09/2023	Sand lizard	Hatchling (new)	Visual
25/09/2023	Sand lizard	Unspecified	Visual
25/09/2023	Sand lizard	Unspecified	Visual
25/09/2023	Sand lizard	Unspecified	Visual
25/09/2023	Sand lizard	Unspecified	Visual
14/09/2023	Sand lizard	Hatchling	Visual
1/10/2023	Sand lizard	Two Juvenile	Visual
1/10/2023	Sand lizard	Unspecified	Visual
1/10/2023	Sand lizard	Unspecified	Visual

A.1.3 2024 Survey data

Date	Species	Life stage	Sex	Number recorded	Survey method	Note
23/03/2024	Sand lizard	Adult	Male	1	Visual	
23/03/2024	Sand lizard	Adult	Male	1	Visual	
30/03/2024	Sand lizard	Adult	Male	1	Visual	
30/03/2024	Sand lizard	Immature		3	Visual	
30/03/2024	Sand lizard	Adult	Male	1	Visual	
30/03/2024	Sand lizard	Adult	Female	1	Visual	
30/03/2024	Sand lizard	Adult	Male	1	Visual	
30/03/2024	Sand lizard	Immature		1	Visual	
30/03/2024	Sand lizard	Adult	Male	1	Visual	
02/04/2024	Sand lizard	Adult	Female	1	Visual	
02/04/2024	Sand lizard	Adult	Female	1	Visual	Same individual*
02/04/2024	Sand lizard	Adult	Male	1	Visual	
06/04/2024	Sand lizard	Adult	Male	1	Visual	
11/04/2024	Sand lizard	Adult	Female	1	Visual	Same individual*
11/04/2024	Sand lizard	Adult	Female	1	Visual	
14/04/2024	Sand lizard	Immature		1	Visual	
14/04/2024	Sand lizard	Adult	Male	1	Visual	
14/04/2024	Sand lizard	Adult	Male	1	Visual	
14/04/2024	Sand lizard	Adult	Male	1	Visual	
24/04/2024	Sand lizard	Adult	Male	1	Visual	
20/04/2024	Sand lizard	Immature		1	Visual	
24/04/2024	Sand lizard	Adult	Male	1	Visual	
26/04/2024	Sand lizard	Adult	Male	1	Visual	
26/04/2024	Sand lizard	Adult	Female	1	Visual	
26/04/2024	Sand lizard	Adult	Male	1	Visual	
26/04/2024	Sand lizard	Adult	Male	1	Visual	
27/04/2024	Sand lizard	Adult	Male	1	Visual	
27/04/2024	Sand lizard	Adult	Male	1	Visual	

Date	Species	Life stage	Sex	Number recorded	Survey method	Note
27/04/2024	Sand lizard	Adult	Male	1	Visual	
28/04/2024	Sand lizard	Adult	Male	1	Visual	
28/04/2024	Sand lizard	Immature		1	Visual	
01/05/2024	Sand lizard	Adult	Male	1	Visual	
01/05/2024	Sand lizard	Immature		1	Visual	
05/05/2024	Sand lizard	Immature		1	Visual	
05/05/2024	Sand lizard	Immature		1	Visual	
05/05/2024	Sand lizard	Immature		1	Visual	
05/05/2024	Sand lizard	Adult	Male	1	Visual	
10/05/2024	Sand lizard	Adult	Male	1	Visual	
11/05/2024	Sand lizard	Adult	Male	1	Visual	
11/05/2024	Sand lizard	Adult	Male	1	Visual	
11/05/2024	Sand lizard	Immature		1	Visual	
11/05/2024	Sand lizard	Adult	Male	1	Visual	
11/05/2024	Sand lizard	Adult	Male	1	Visual	
11/05/2024	Sand lizard	Immature		1	Visual	
17/05/2024	Sand lizard	Adult	Male	1	Visual	
17/05/2024	Sand lizard	Adult	Male	1	Visual	
17/05/2024	Sand lizard	Adult	Female	1	Visual	
17/05/2024	Sand lizard	Adult	Male	1	Visual	
17/05/2024	Sand lizard	Adult	Male	1	Visual	
17/05/2024	Sand lizard	Adult	Male	1	Visual	
17/05/2024	Sand lizard	Immature		1	Visual	
21/05/2024	Sand lizard	Adult	Male	1	Visual	
21/05/2024	Sand lizard	Immature		1	Visual	
25/05/2024	Sand lizard	Adult	Male	1	Visual	
25/05/2024	Sand lizard	Adult	Female	1	Visual	
25/05/2024	Sand lizard	Adult	Female	1	Visual	
27/05/2024	Sand lizard	Adult	Male	1	Visual	
27/05/2024	Sand lizard	Adult	Female	1	Visual	

Date	Species	Life stage	Sex	Number recorded	Survey method	Note
27/05/2024	Sand lizard	Adult	Male	1	Visual	
27/05/2024	Sand lizard	Immature		1	Visual	
27/05/2024	Sand lizard	Adult	Female	1	Visual	
27/05/2024	Sand lizard	Adult	Female	1	Visual	
27/05/2024	Sand lizard	Immature		1	Visual	
06/06/2024	Sand lizard	Immature		1	Visual	
16/06/2024	Sand lizard	Adult	Female	1	Visual	
16/06/2024	Sand lizard	Adult	Female	1	Visual	
24/08/2024	Sand lizard	Juvenile		1	Visual	
26/08/2024	Sand lizard	Immature		1	Visual	
26/08/2024	Sand lizard	Juvenile		1	Visual	
26/08/2024	Sand lizard	Juvenile		1	Visual	
26/08/2024	Sand lizard	Immature	Male	1	Visual	
30/08/2024	Sand lizard	Juvenile		1	Visual	
30/08/2024	Sand lizard	Juvenile		1	Visual	
30/08/2024	Sand lizard	Adult		1	Visual	
04/09/2024	Sand lizard	Juvenile		1	Visual	
06/09/2024	Sand lizard	Juvenile		1	Visual	
06/09/2024	Sand lizard	Immature		1	Visual	
06/09/2024	Sand lizard	Juvenile		1	Visual	
14/09/2024	Sand lizard	Juvenile		1	Visual	
20/09/2024	Sand lizard	Juvenile		1	Visual	
20/09/2024	Sand lizard	Juvenile		1	Visual	
20/09/2024	Sand lizard	Juvenile		1	Visual	
20/09/2024	Sand lizard	Juvenile		1	Visual	
04/10/2024	Sand lizard	Juvenile		2	Visual	
04/10/2024	Sand lizard	Juvenile		1	Visual	
04/10/2024	Sand lizard	Juvenile		1	Visual	
04/10/2024	Sand lizard	Juvenile		1	Visual	
04/10/2024	Sand lizard	Juvenile		1	Visual	

Date	Species	Life stage	Sex	Number recorded	Survey method	Note
04/10/2024	Sand lizard	Juvenile		1	Visual	
04/10/2024	Sand lizard	Juvenile		1	Visual	
04/10/2024	Sand lizard	Immature		1	Visual	
05/10/2024	Sand lizard	Juvenile		1	Visual	
18/10/2024	Sand lizard	Juvenile		1	Visual	

A.1.4 2025 survey results to date

Date	Species	Life stage	Sex	Number recorded	Survey method	Note
09/03/2025	Sand lizard	Adult	M		Visual	
09/03/2025	Sand lizard	Adult	M		Visual	
09/03/2025	Sand lizard	Adult	M		Visual	
18/03/2025	Sand lizard	Immature		1	Visual	
18/03/2025	Sand lizard	Immature		1	Visual	
18/03/2025	Sand lizard	Adult	M	1	Visual	
18/03/2025	Sand lizard	Adult	M	1	Visual	
20/03/2025	Sand lizard	Adult	Female	2	Visual	
20/03/2025	Sand lizard	Adult	M	1	Visual	
20/03/2025	Sand lizard	Adult	Female	1	Visual	
20/03/2025	Sand lizard	Adult	Male	1	Visual	
02/04/2025	Sand lizard	Adult	Female	1	Visual	
02/04/2025	Sand lizard	Immature		1	Visual	
02/04/2025	Sand lizard	Adult	Male	1	Visual	
02/04/2025	Sand lizard	Adult	Male	1	Visual	
02/04/2025	Sand lizard	Adult	Male	1	Visual	
04/04/2025	Sand lizard	Adult	Male	1	Visual	
04/04/2025	Sand lizard	Adult	Male	1	Visual	
04/04/2025	Sand lizard	Adult	Male	1	Visual	
04/04/2025	Sand lizard	Adult	Male	1	Visual	
04/04/2025	Sand lizard	Immature	Male	1	Visual	
04/04/2025	Sand lizard	Adult	Female	1	Visual	
04/04/2025	Sand lizard	Adult	Male	1	Visual	
04/04/2025	Sand lizard	Immature	Male	1	Visual	
04/04/2025	Sand lizard	Adult	Male	1	Visual	
04/04/2025	Sand lizard	Adult	Male	1	Visual	
04/04/2025	Sand lizard	Adult	Male	1	Visual	
04/04/2025	Sand lizard	Adult	Male	1	Visual	
04/04/2025	Sand lizard	Immature	Male	1	Visual	
04/04/2025	Sand lizard	Immature	Male	1	Visual	
06/04/2025	Sand lizard	Adult	Male	1	Visual	

Date	Species	Life stage	Sex	Number recorded	Survey method	Note
06/04/2025	Sand lizard	Adult	Female	1	Visual	
06/04/2025	Sand lizard	Immature	Female	1	Visual	
06/04/2025	Sand lizard	Immature	Male	1	Visual	
06/04/2025	Sand lizard	Adult	Male	1	Visual	
06/04/2025	Sand lizard	Adult	Male	1	Visual	
06/04/2025	Sand lizard	Adult	Male	1	Visual	
06/04/2025	Sand lizard	Adult	Male	1	Visual	
06/04/2025	Sand lizard	Adult	Male	1	Visual	
06/04/2025	Sand lizard	Adult	Male	1	Visual	
06/04/2025	Sand lizard	Adult	Male	1	Visual	
06/04/2025	Sand lizard	Adult	Male	1	Visual	
13/04/2025	Sand lizard	Adult	Male	1	Visual	
13/04/2025	Sand lizard	Adult	Male	1	Visual	
13/04/2025	Sand lizard	Adult	Male	1	Visual	
13/04/2025	Sand lizard	Adult	Male	1	Visual	
13/04/2025	Sand lizard	Immature		1	Visual	
13/04/2025	Sand lizard	Adult	Female	1	Visual	
10/04/2025	Sand lizard	Immature		1	Visual	
27/04/2025	Sand lizard	Adult	Male	1	Visual	
27/04/2025	Sand lizard	Adult	Male	1	Visual	
30/04/2025	Sand lizard	Adult	Male	1	Visual	
30/04/2025	Sand lizard	Adult		1	Visual	
30/04/2025	Sand lizard	Adult		1	Visual	
06/05/2025	Sand lizard		Male	1	Visual	
06/05/2025	Sand lizard		Female	1	Visual	
17/05/2025	Sand lizard	Immature	Male	1	Visual	
17/05/2025	Sand lizard	Adult	Male	1	Visual	
17/05/2025	Sand lizard	Adult	Female	1	Visual	
17/05/2025	Sand lizard	Adult	Male	1	Visual	
17/05/2025	Sand lizard	Juvenile		1	Visual	
17/05/2025	Sand lizard	Juvenile		1	Visual	
17/05/2025	Sand lizard	Juvenile		1	Visual	
17/05/2025	Sand lizard	Immature	Female	1	Visual	
17/05/2025	Sand lizard	Adult	Female	1	Visual	

Date	Species	Life stage	Sex	Number recorded	Survey method	Note
19/05/2025	Sand lizard	Adult	Male	1	Visual	
23/05/2025	Sand lizard	Juvenile	Female	1	Visual	
23/05/2025	Sand lizard	Adult	Female	1	Visual	
31/05/2025	Sand lizard	Adult	Female	1	Visual	Recently laid eggs
31/05/2025	Sand lizard	Adult	Female	1	Visual	
15/06/2025	Sand lizard	Adult	Male	1	Visual	
15/06/2025	Sand lizard	Adult	Male	2	Visual	
15/06/2025	Sand lizard	Adult	Male	1	Visual	
15/06/2025	Sand lizard	Adult	Male	1	Visual	
15/06/2025	Sand lizard	Adult	Male	1	Visual	
15/06/2025	Sand lizard	Adult	Male	1	Visual	
15/06/2025	Sand lizard	Adult	Female	1	Visual	
15/06/2025	Sand lizard	Adult	Female	1	Visual	
15/06/2025	Sand lizard	Immature	Male	1	Visual	
15/06/2025	Sand lizard	Juvenile		1	Visual	
15/06/2025	Sand lizard	Juvenile		1	Visual	
15/06/2025	Sand lizard	Juvenile		1	Visual	
15/06/2025	Sand lizard	Juvenile		1	Visual	
02/08/2025	Sand lizard	Juvenile		1	Visual	Estimated to have very recently hatched.
02/08/2025	Sand lizard	Juvenile		1	Visual	Estimated to be roughly 2 weeks old.
02/08/2025	Sand lizard	Adult	Female	1	Visual	