



# Ash Dieback Tetrad Survey Data for Kent 2024

Louise A. Butfoy

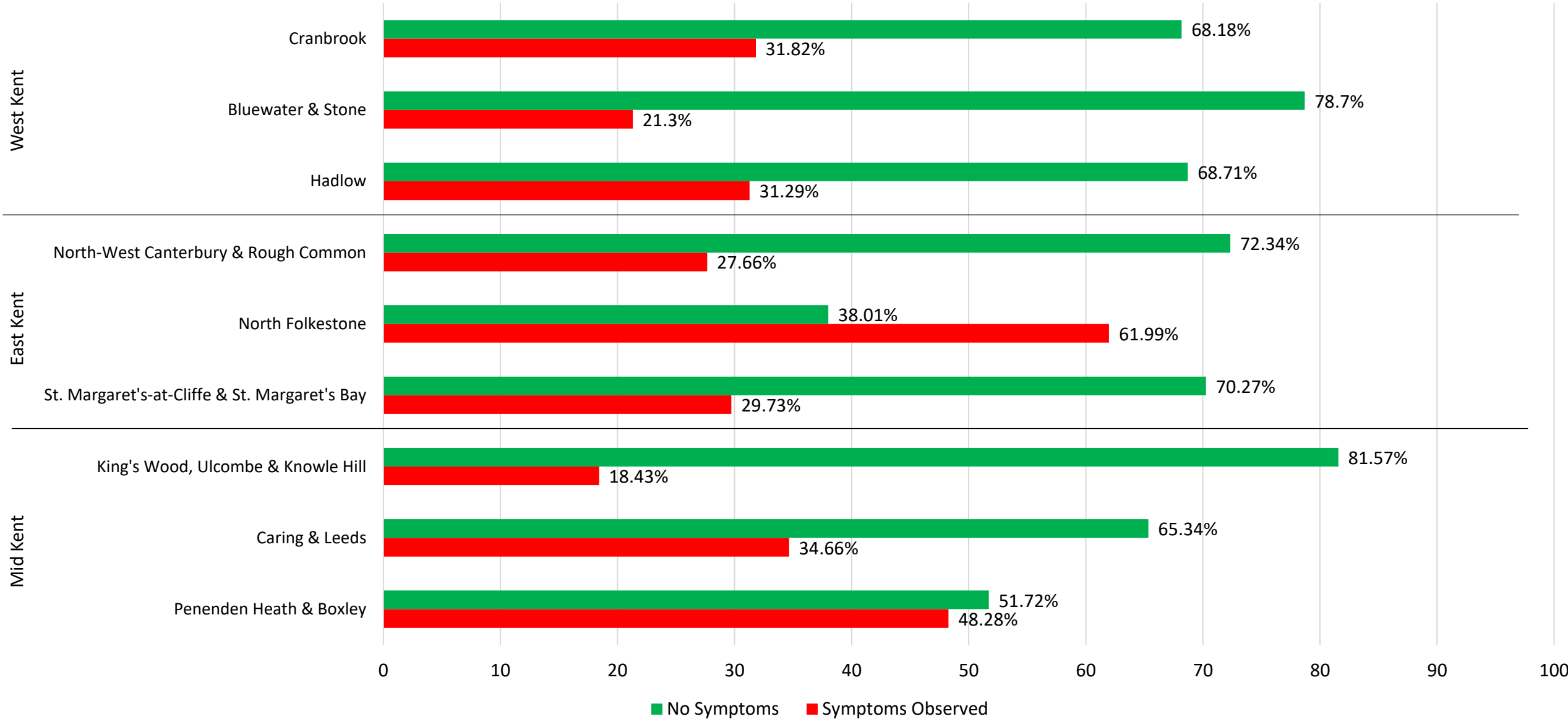
Tony P. Harwood

June 2024

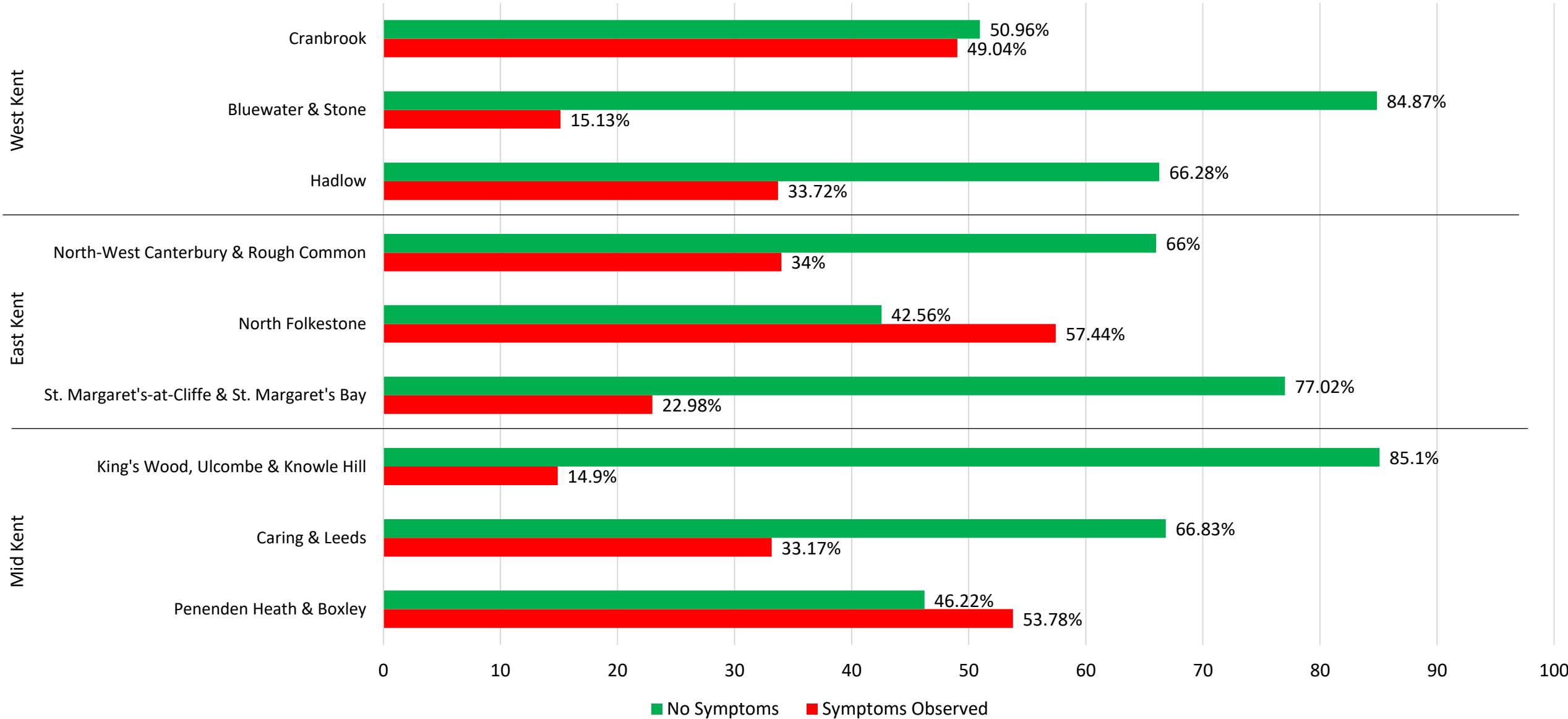
# Executive Summary & Observations 2024

- A total of 16,571 individual Ash trees were surveyed across nine tetrads for the 2024 Ash Dieback survey.
- The 2024 survey results show a mixed picture in both East and West Kent, with a cross-the-board decline in crown health within all Mid Kent survey tetrads.
- 2023 was a warmer and wetter than average year, which is likely to have favoured sporulation by the fungal pathogen responsible for Ash Dieback and increased rates of crown health deterioration observed in 2024.
- The three survey tetrads with decreases in observed symptoms in 2024 were all located in areas where the substrate is clay (Wealden and London).
- The proportion of trees exhibiting Ash Dieback symptoms observed across the nine Kent survey sites, **increased** by an average of **0.22%** between 2023 and 2024, after **decreasing** by an average of **15.22%** between 2022 and 2023, after **increasing** by an average of **1.21%** between 2021 and 2022, **increasing** by an average of **16.70%** between 2020 and 2021, **decreasing** by an average of **13.14%** between 2019 and 2020 and **increasing** by an average of **28.36%** between 2018 and 2019.
- The detailed percentage increase/decrease (from 2023 to 2024) in trees exhibiting symptoms observed across the Kent tetrads are as follows:
  - West Kent
    - Cranbrook: **17.22% decrease** (from **8%** of trees showing ADB symptoms in 2018, to **53.33%** in 2019, to **39.33%** in 2020, to **49.12%** in 2021, to **53.43%** in 2022, to **49.04%** in 2023, to **31.82%** in 2024)
    - Bluewater: **6.17% increase** (from **2.4%** of trees showing ADB symptoms in 2018, to **24.65%** in 2019, to **4.92%** in 2020, to **60.73%** in 2021, to **31.39%** in 2022, to **15.13%** in 2023, to **21.30%** in 2024)
    - Hadlow: **2.43% decrease** (from **15.93%** of trees showing ADB symptoms in 2018, to **33.59%** in 2019, to **22.37%** in 2020, to **34.22%** in 2021, to **38.37%** in 2022, to **33.72%** in 2023, to **31.29%** in 2024)
  - Mid Kent
    - King's Wood: **3.53% increase** (from **18.14%** of trees showing ADB symptoms in 2018, to **45.27%** in 2019, to **47.20%** in 2020, to **35.54%** in 2021, to **25.97%** in 2022, to **14.9%** in 2023, to **18.43%** in 2024)
    - Caring & Leeds: **1.49% increase** (from **27.09%** of trees showing ADB symptoms in 2018, to **68.66%** in 2019, to **38.58%** in 2020, to **52.13%** in 2021, to **37.78%** in 2022, to **33.17%** in 2023, to **34.66%** in 2024)
    - Penenden Heath & Boxley: **5.5% increase** (from **29.96%** of trees showing ADB symptoms in 2018, to **33.86%** in 2019, to **46.8%** in 2020, to **58.27%** in 2021, to **54.17%** in 2022, to **53.78%** in 2023, to **48.28%** in 2024)
  - East Kent
    - Canterbury: **6.34% decrease** (from **29.90%** of trees showing ADB symptoms in 2018, to **63.47%** in 2019, to **51.07%** in 2020, to **60.21%** in 2021, to **68.60%** in 2022, to **34%** in 2023, to **27.66%** in 2024)
    - Folkestone: **4.55% increase** (from **39.05%** of trees showing ADB symptoms in 2018, to **82.70%** in 2019, to **52%** in 2020, to **84.39%** in 2021, to **60.65%** in 2022, to **57.44%** in 2023, to **61.99%** in 2024)
    - St. Margaret's Bay: **6.75% increase** (from **29.77%** of trees showing ADB symptoms in 2018, to **50%** in 2019, to **34.96%** in 2020, to **53.06%** in 2021, to **80.79%** in 2022, to **22.98%** in 2023, to **29.73%** in 2024)

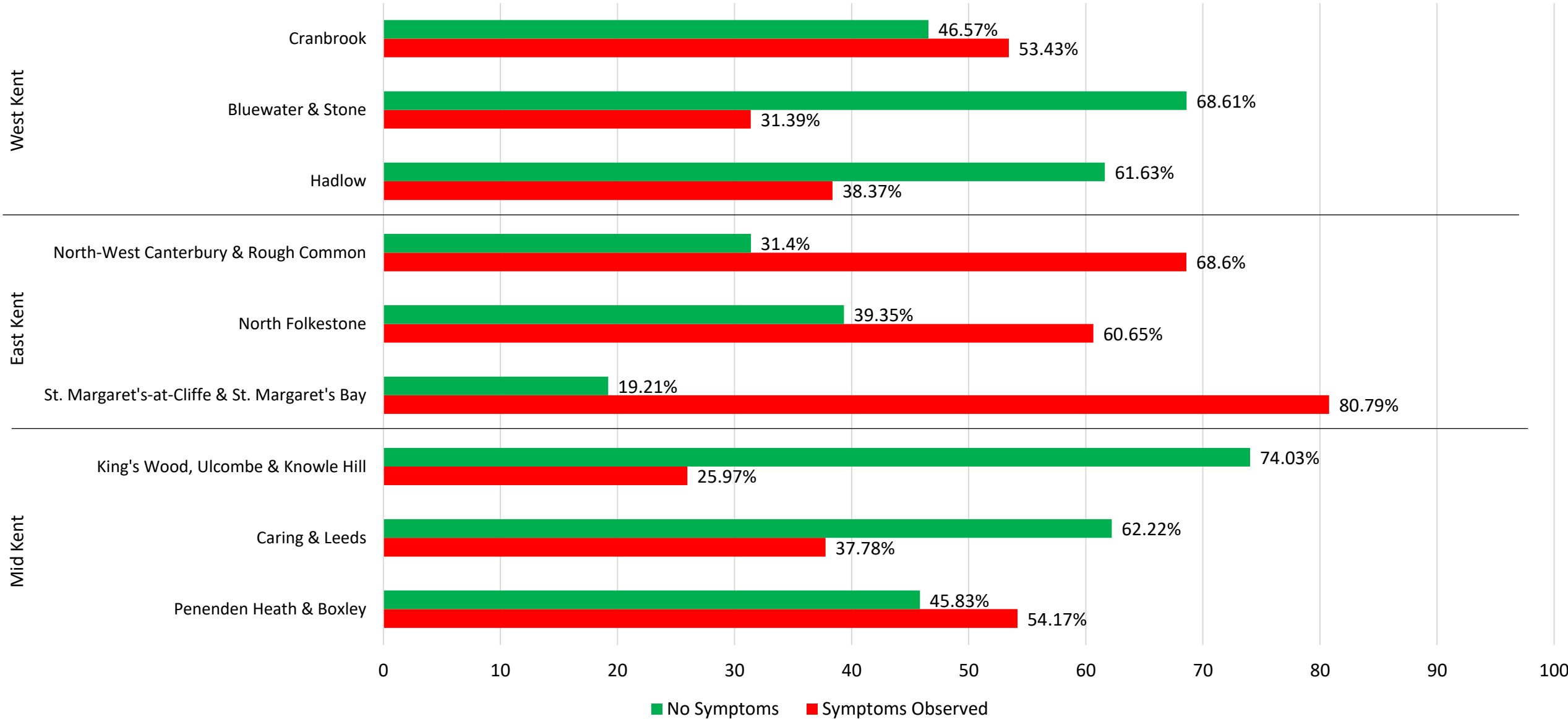
# Percentage of Ash with No Ash Dieback Symptoms Compared to Ash with Observed Symptoms 2024



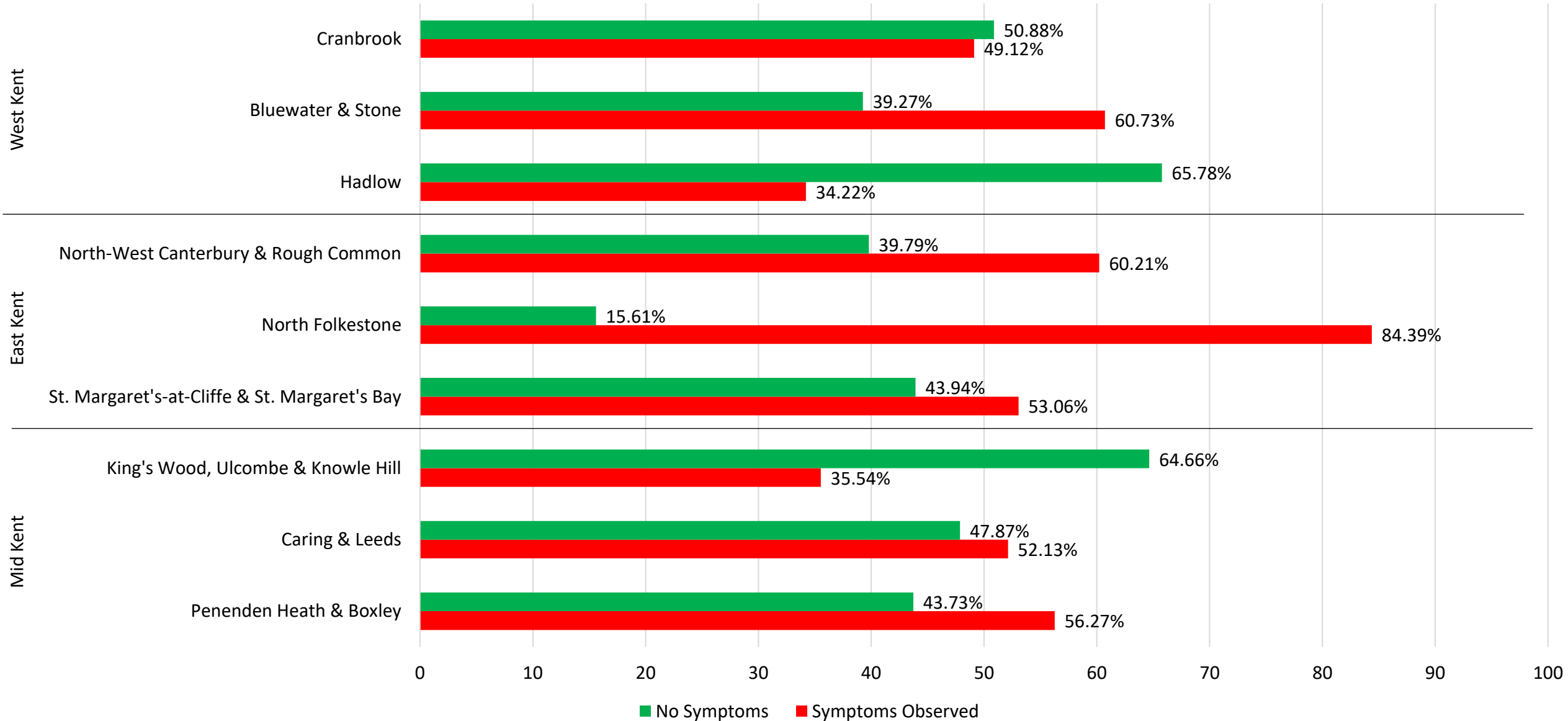
# Percentage of Ash with No Ash Dieback Symptoms Compared to Ash with Observed Symptoms 2023



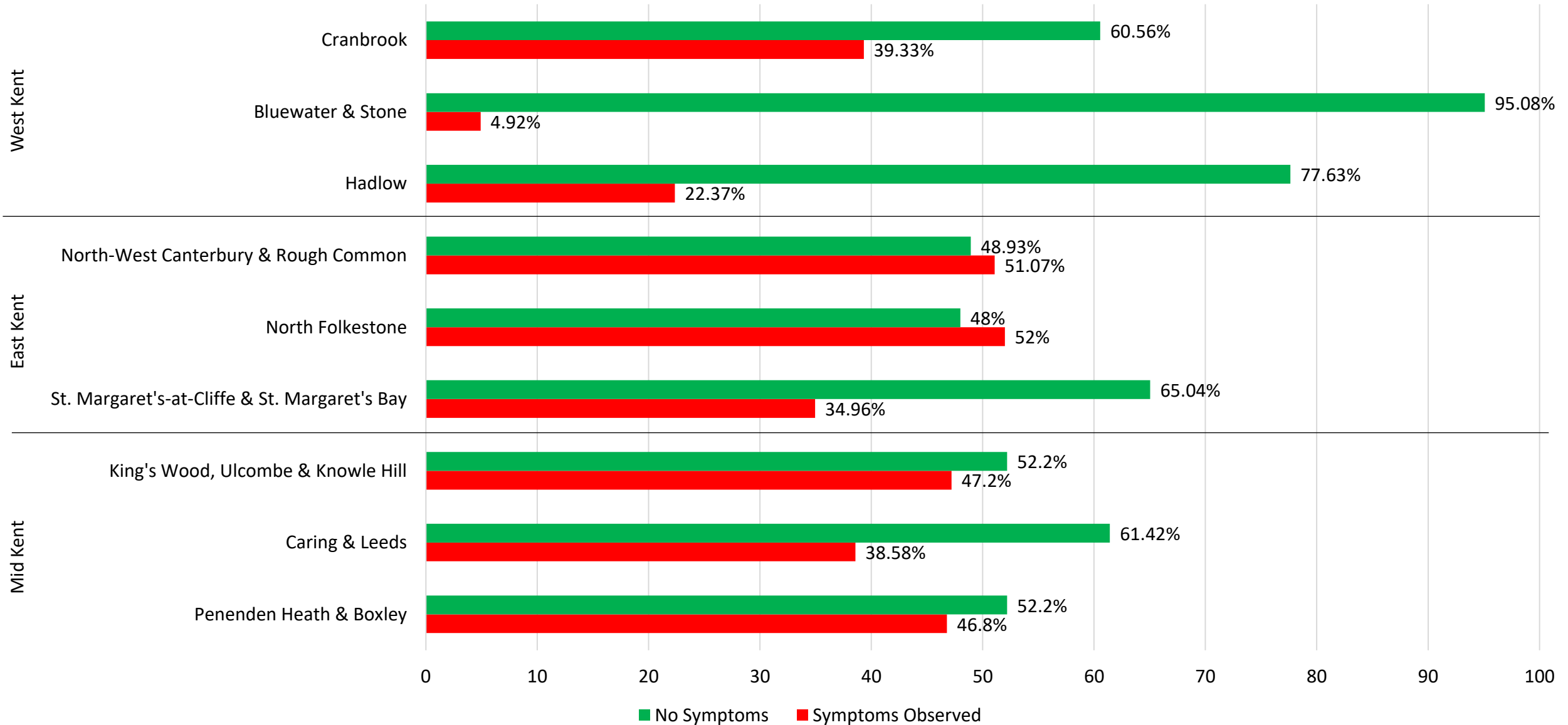
# Percentage of Ash with No Ash Dieback Symptoms Compared to Ash with Observed Symptoms 2022



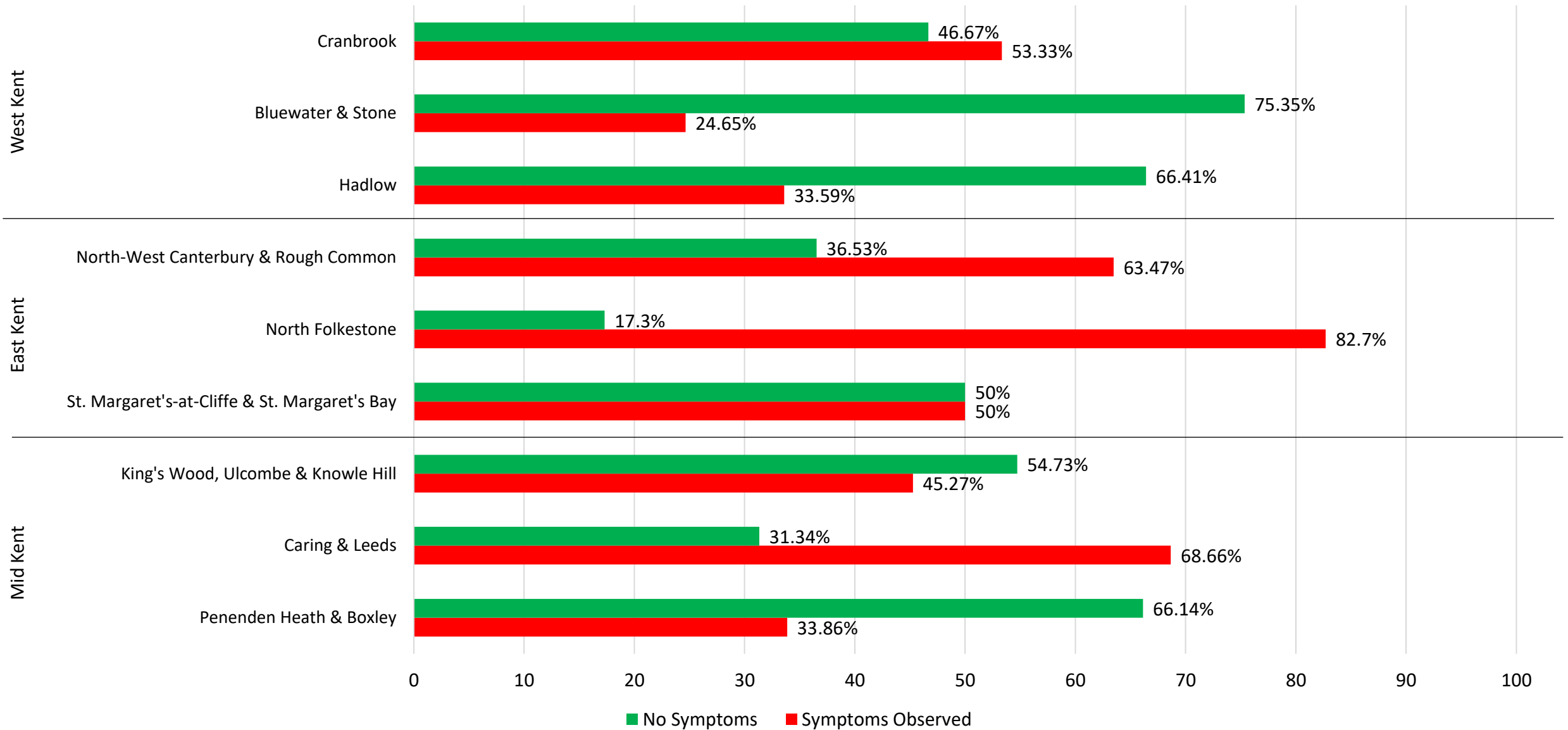
# Percentage of Ash with No Ash Dieback Symptoms Compared to Ash with Observed Symptoms 2021



# Percentage of Ash with No Ash Dieback Symptoms Compared to Ash with Observed Symptoms 2020

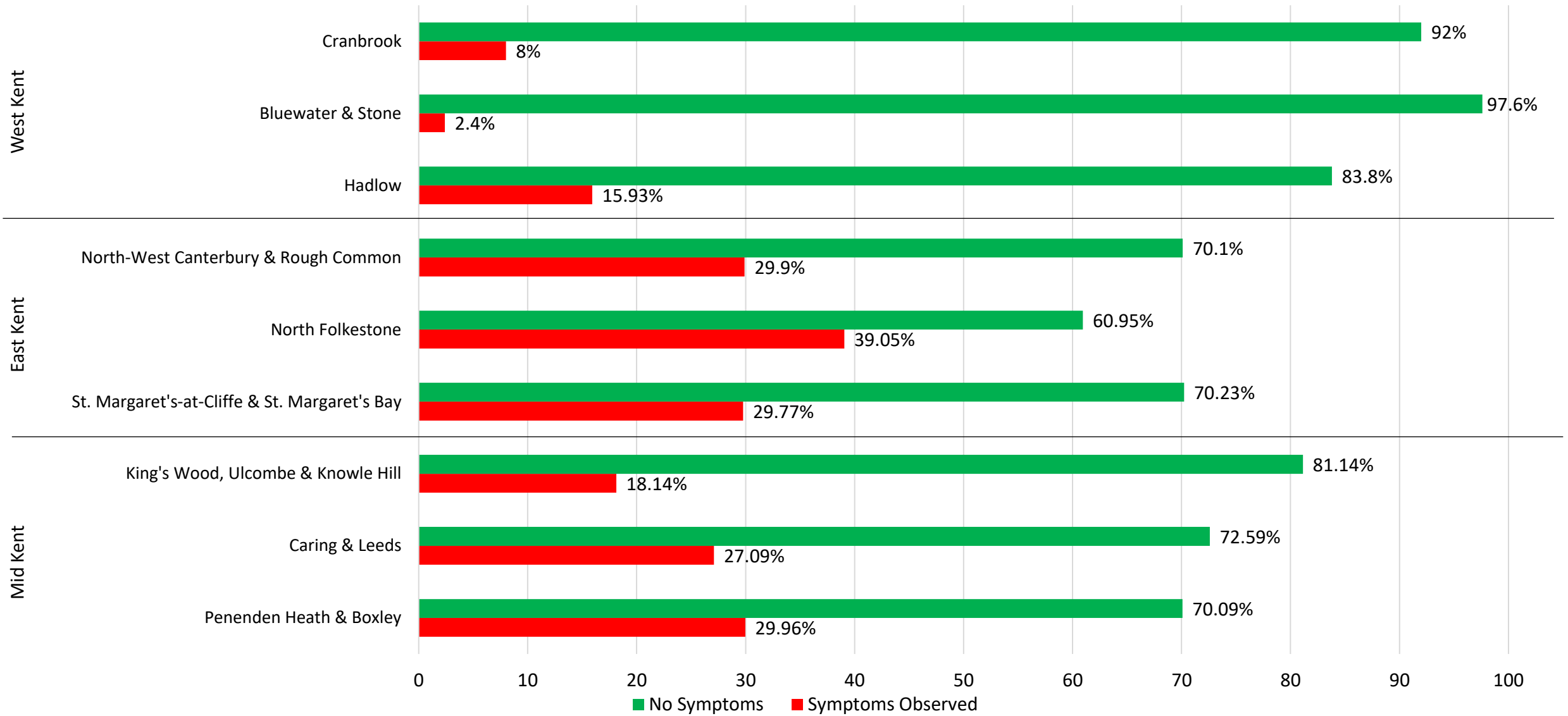


# Percentage of Ash with No Ash Dieback Symptoms Compared to Ash with Observed Symptoms 2019

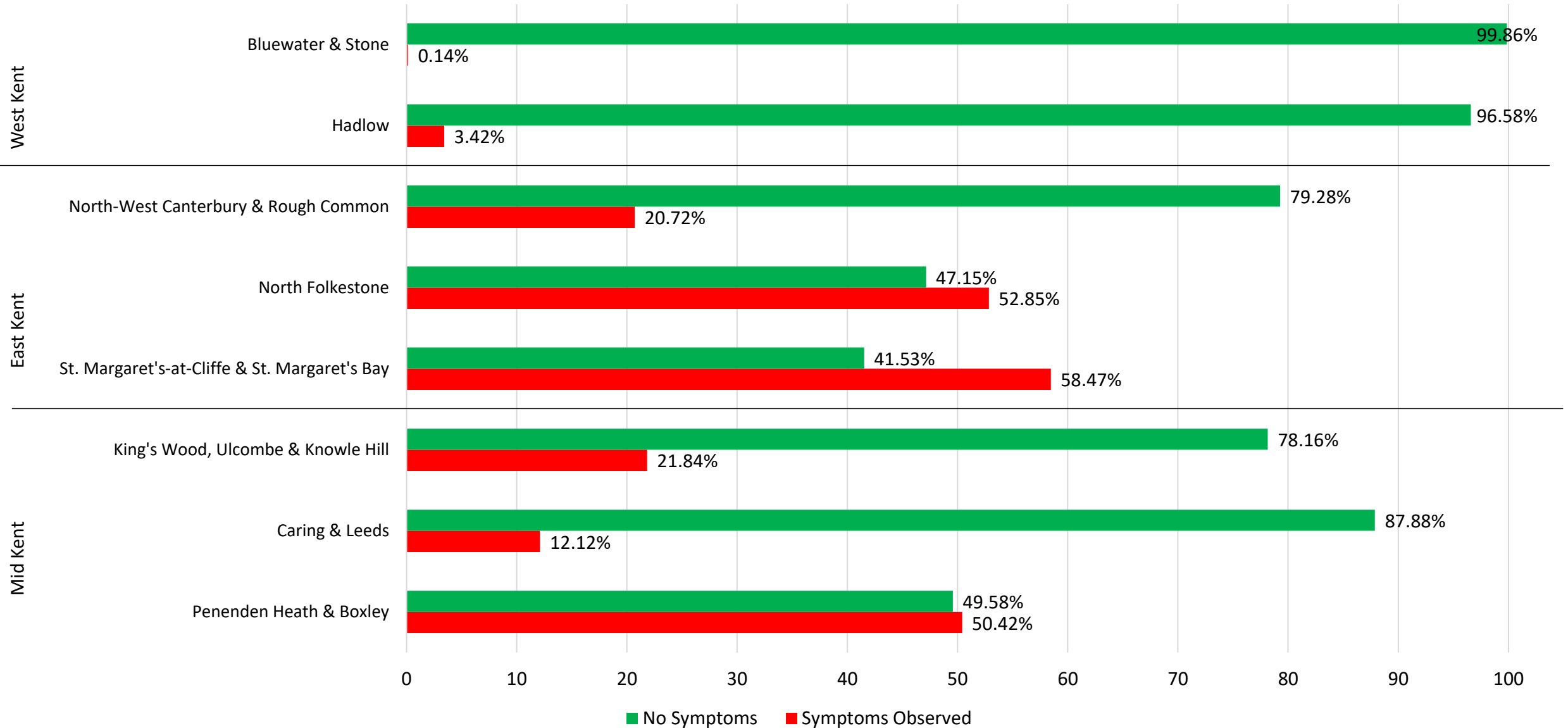




# Percentage of Ash with No Ash Dieback Symptoms Compared to Ash with Observed Symptoms 2018



# Percentage of Ash with No Ash Dieback Symptoms Compared to Ash with Observed Symptoms 2017



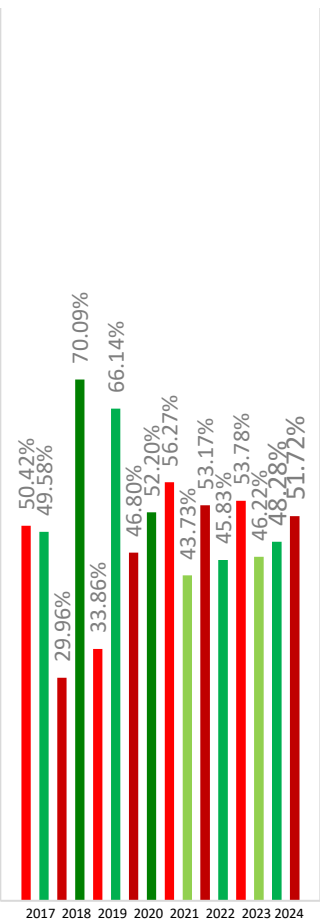
PERCENTAGE OF ASH WITH NO SYMPTOMS COMPARED TO ASH WITH OBSERVED SYMPTOMS SUMMER 2017, 2018, 2019, 2020, 2021, 2022, 2023

- Symptoms Observed 2017
- Symptoms Observed 2019
- Symptoms Observed 2021
- Symptoms Observed 2023

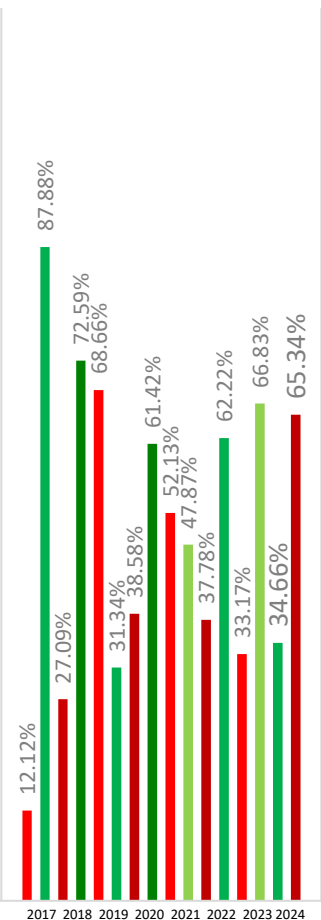
- No Symptoms 2017
- No Symptoms 2019
- No Symptoms 2021
- No Symptoms 2023

- Symptoms Observed 2018
- Symptoms Observed 2020
- Symptoms Observed 2022
- Symptoms Observed 2024

- No Symptoms 2018
- No Symptoms 2020
- No Symptoms 2022
- No Symptoms 2024

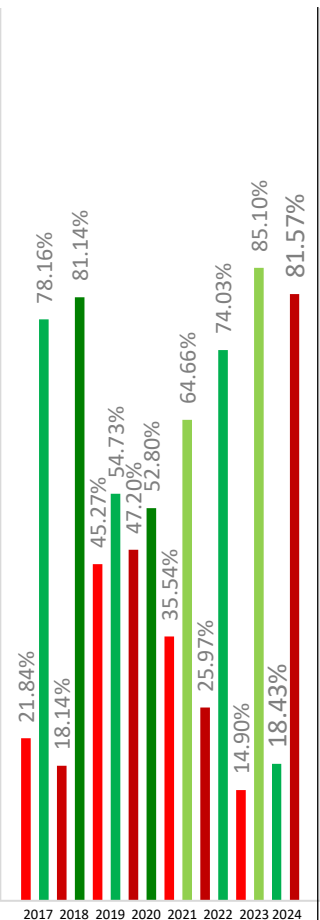


PENENDEN HEATH & BOXLEY

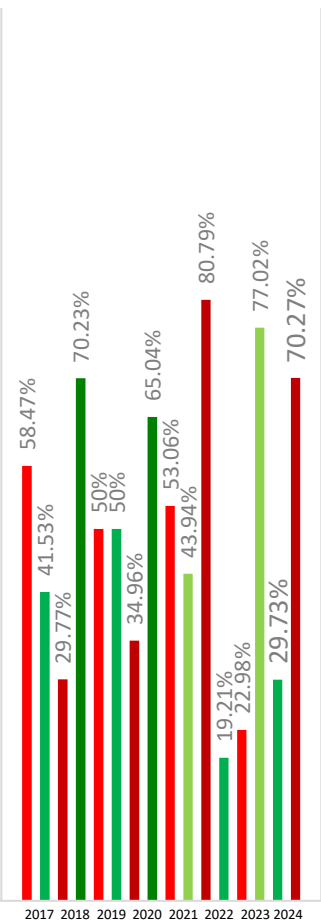


CARING & LEEDS

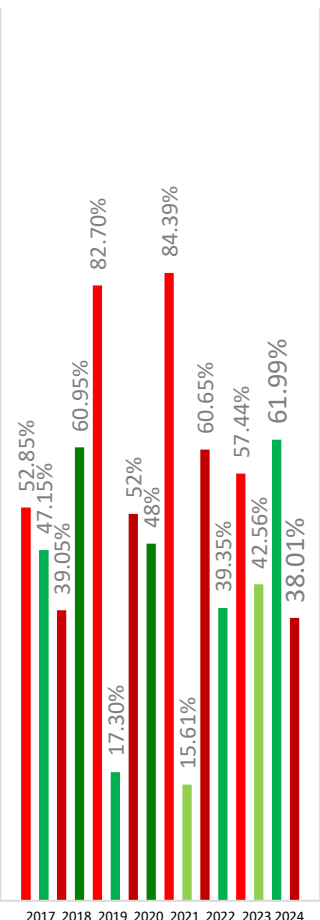
MID KENT



KING'S WOOD, ULCOMBE & KNOWLE HILL

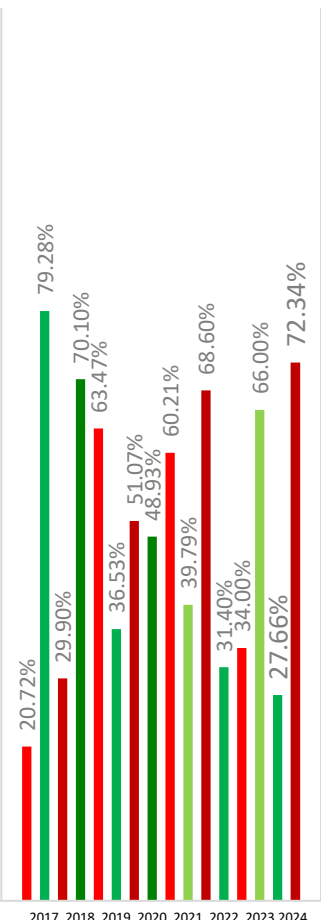


ST. MARGARET'S-AT-CLIFFE & ST. MARGARET'S BAY

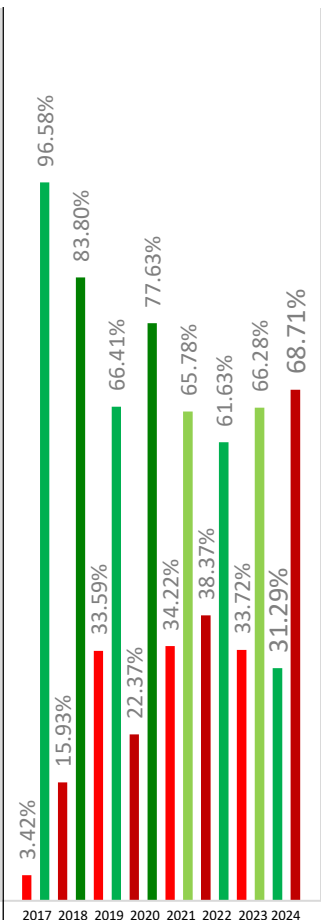


NORTH FOLKESTONE

EAST KENT

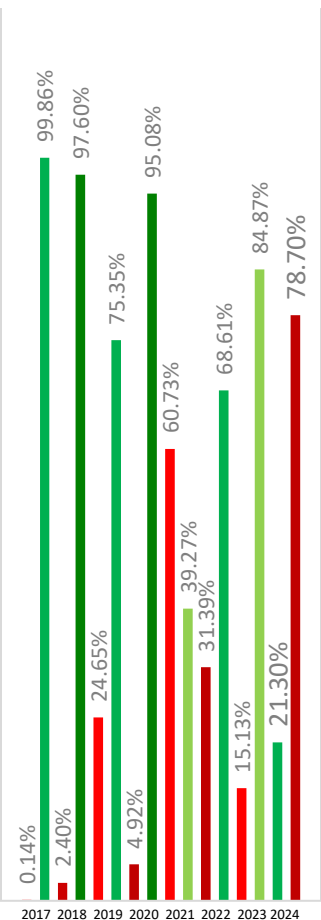


NORTH-WEST CANTERBURY & ROUGH COMMON



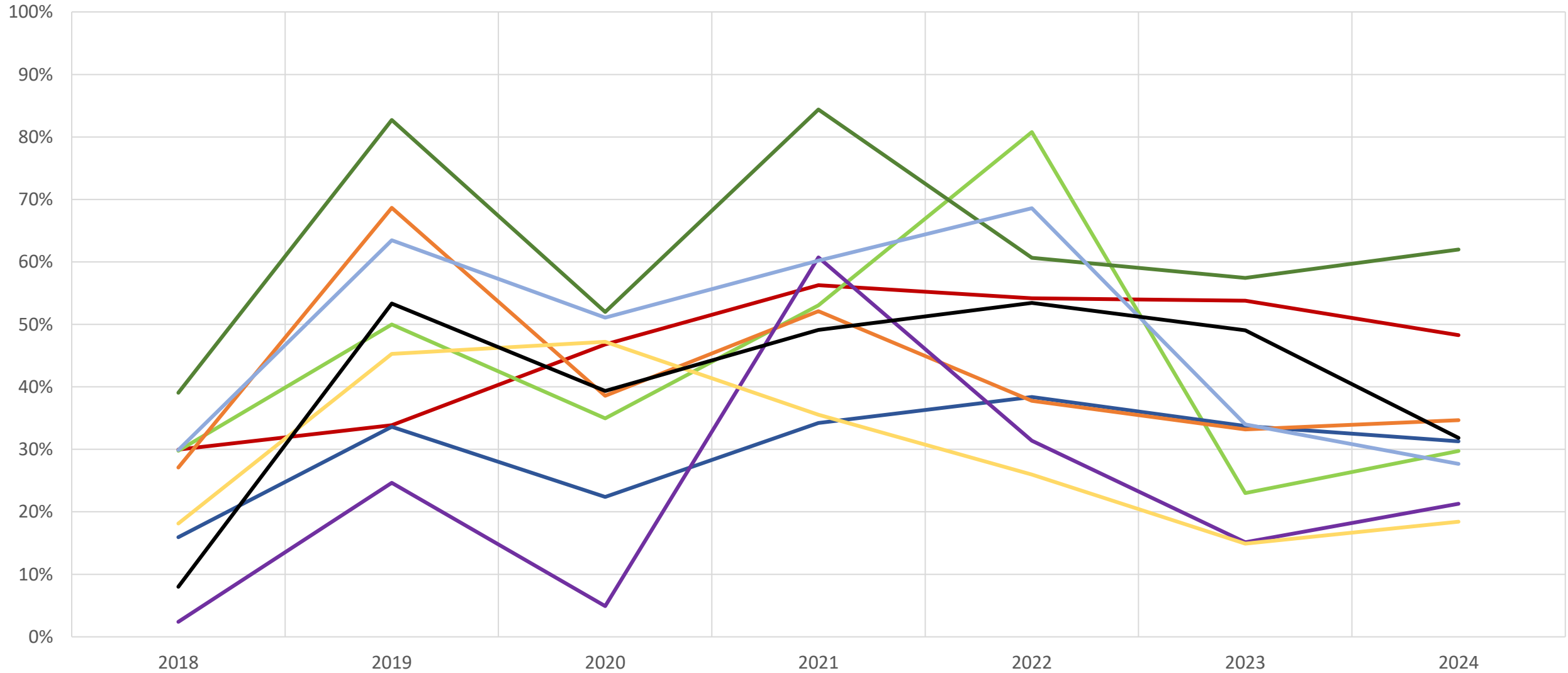
HADLOW

WEST KENT



BLUEWATER & STONE

# INCREASE/DECREASE OF ASH DIEBACK SYMPTOMS OBSERVED SUMMER 2018, 2019, 2020, 2021, 2022, 2023, 2024



MID KENT Penenden Heath & Boxley

EAST KENT Caring & Leeds

WEST KENT King's Wood, Ulcombe & Knowle Hill

St. Margaret's-at-Cliffe & St. Margaret's Bay

North Folkestone

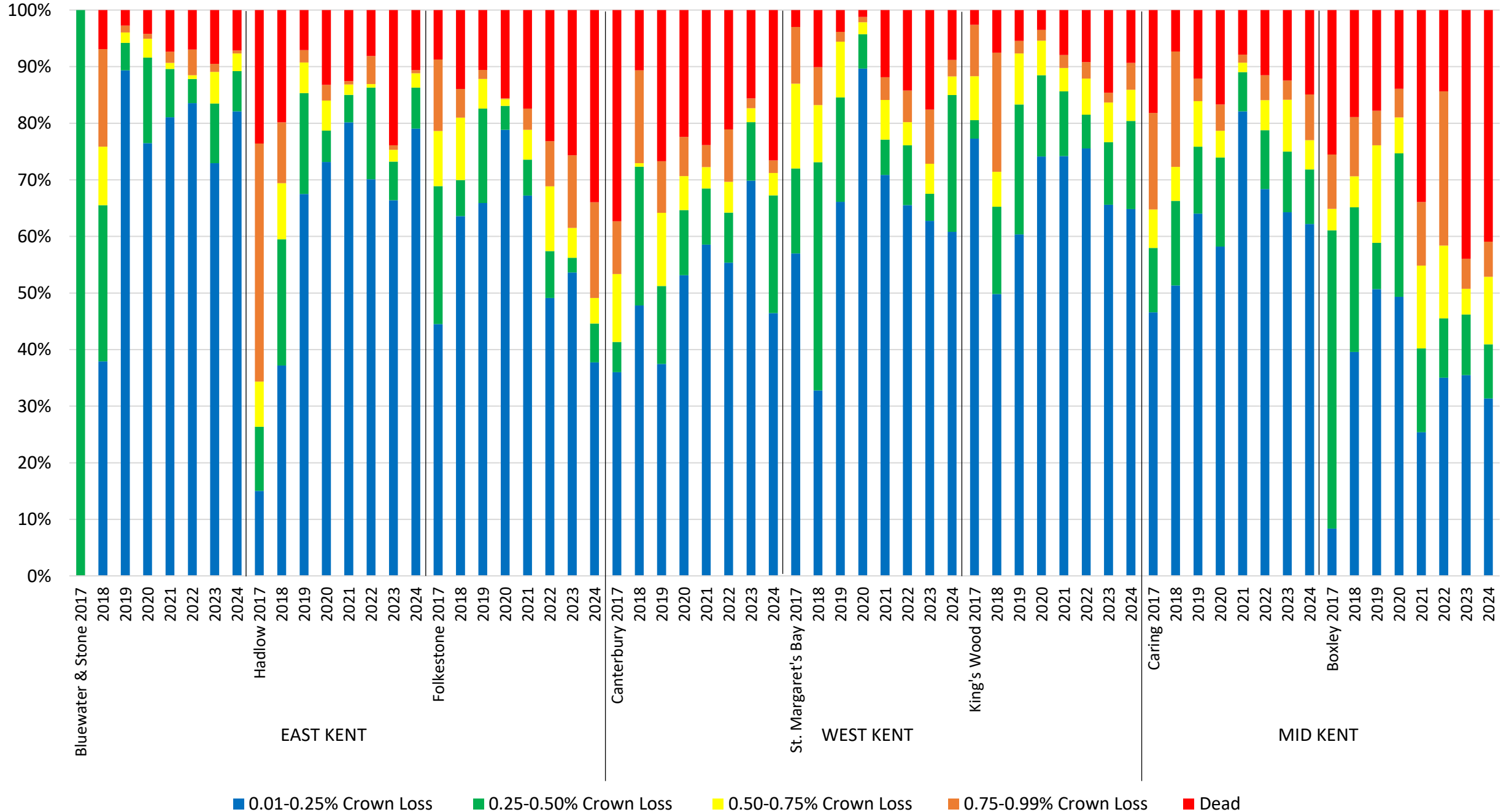
North-West Canterbury & Rough Common

Hadlow

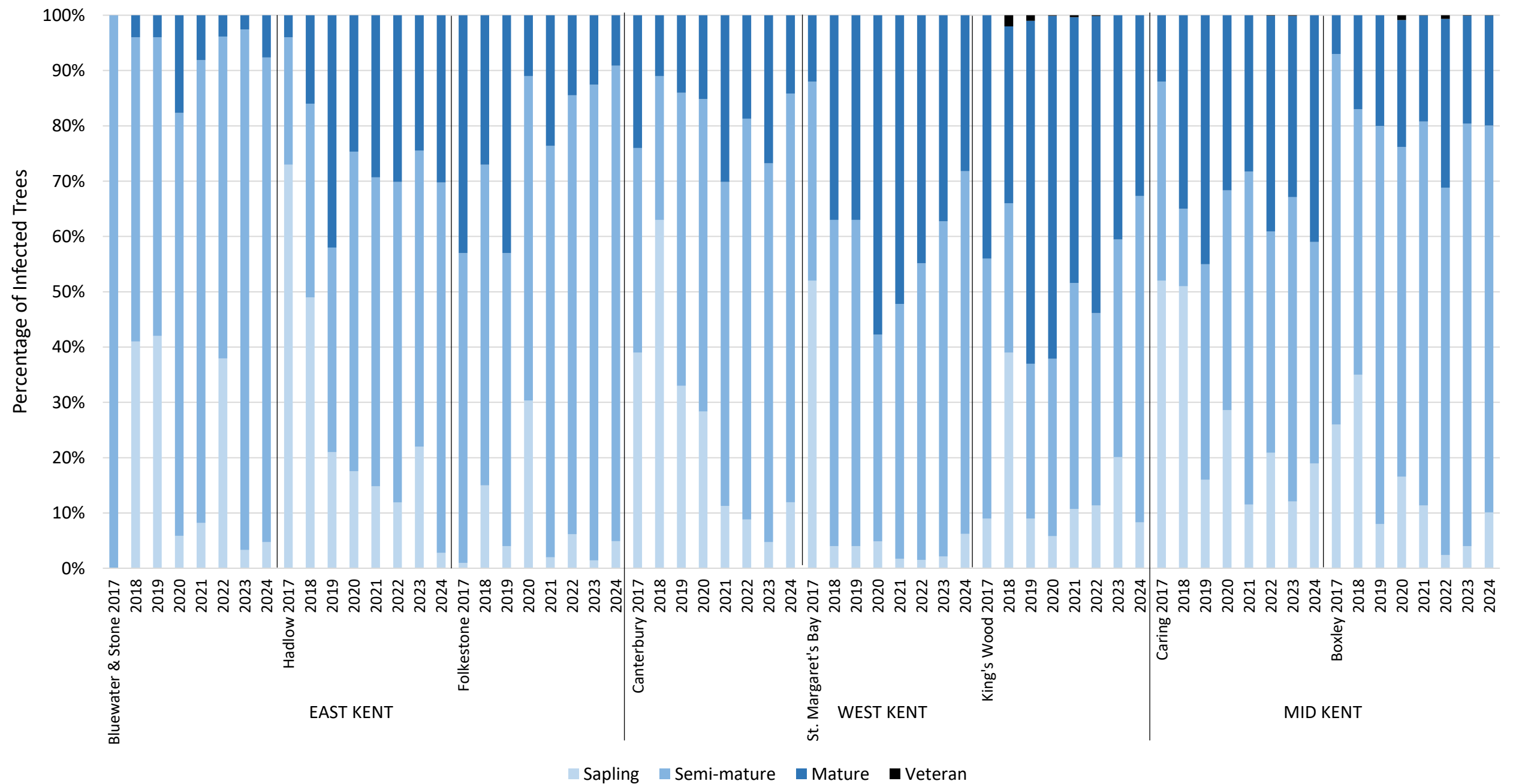
Bluewater

Cranbrook

# KCC SURVEY OF ASH TETRADS DIEBACK LEVEL IN INFECTED TREES 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024



# KCC SURVEY OF ASH TETRAADS AGE/SIZE OF INFECTED TREES 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024



# 2013 BASELINE ASH DIEBACK DATA

Ash (*Fraxinus excelsior*) records from tetrads (2km squares) on or adjacent to publicly accessible land (including highways, PROWS and public open spaces)  
*North Maidstone / Penenden Heath / Boxley tetrad - suburban / urban edge (27/28 Aug 2013)*

No of Trees	Tree Age					Tree Management					Site/Woodland Management				Chalara Present	Tree Condition
	Sapling	Immature	Mature	Veteran	Unknown	Coppice	Maiden	Pollard	Other	Unknown	Coppice	Unmanaged	Partially Managed	Unknown		
2574	1024	1154	391	5	0	79	2483	12	0	0	0	2244	330	0	No	N/A
%	40%	45%	15%	0%	0%	3%	96%	0%	0%	0%	0%	87%	13%	0%		

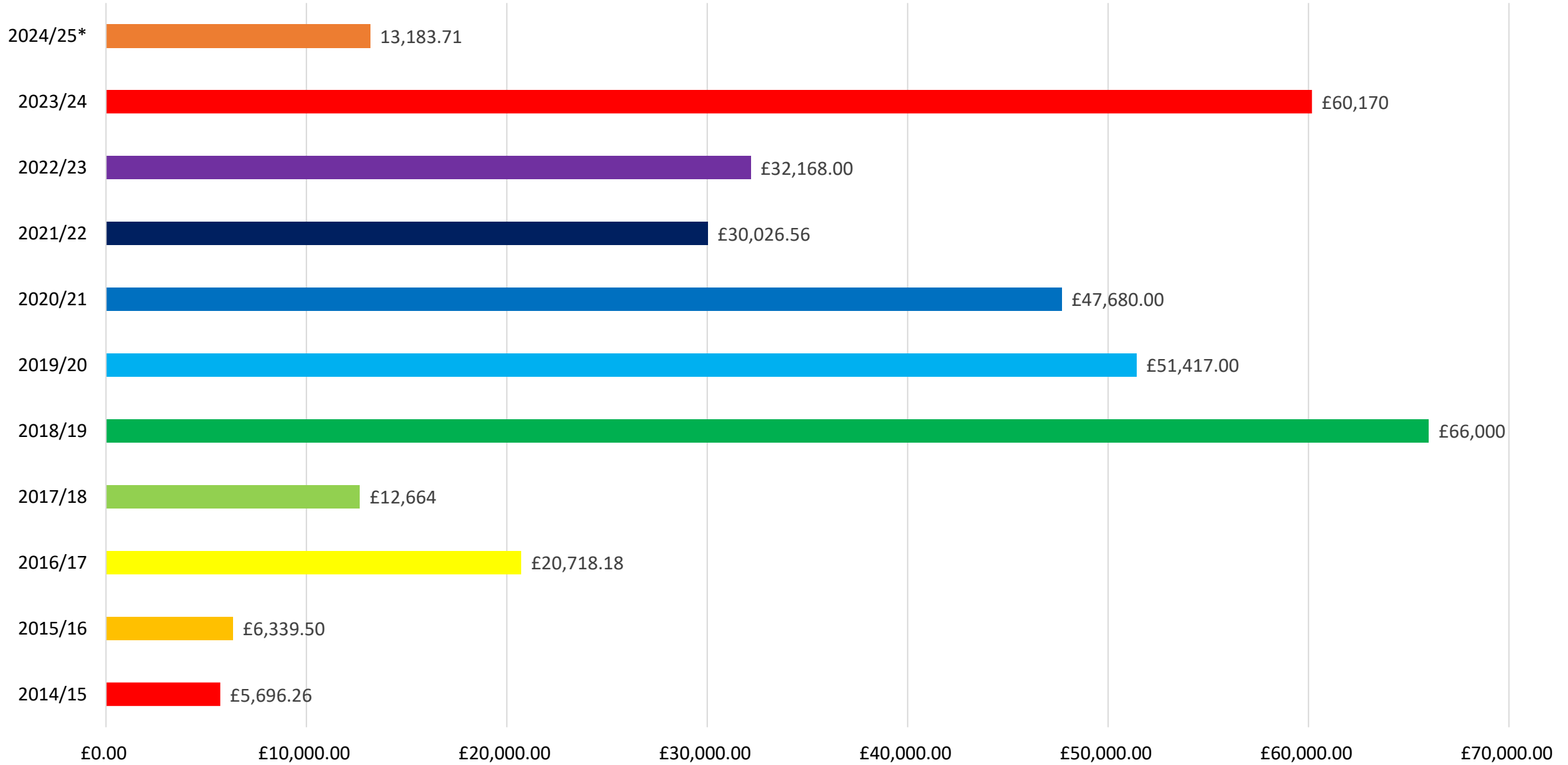
*Caring / Leeds tetrad - managed agricultural landscape (28 Aug 2013)*

No of Trees	Tree Age					Tree Management					Site/Woodland Management				Chalara Present	Tree Condition
	Sapling	Immature	Mature	Veteran	Unknown	Coppice	Maiden	Pollard	Other	Unknown	Coppice	Unmanaged	Partially Managed	Unknown		
422	100	163	157	2	0	6	395	21	0	0	0	146	276	0	No	N/A
%	24%	39%	37%	0%	0%	1%	94%	5%	0%	0%	0%	35%	65%	0%		

*King's Wood tetrad - heavily wooded landscape with some urbanised and managed agricultural land (30 Aug 2013)*

No of Trees	Tree Age					Tree Management					Site/Woodland Management				Chalara Present	Tree Condition
	Sapling	Immature	Mature	Veteran	Unknown	Coppice	Maiden	Pollard	Other	Unknown	Coppice	Unmanaged	Partially Managed	Unknown		
523	188	116	217	2	0	216	306	1	0	0	161	88	274	0	No	N/A
%	36%	22%	41%	0%	0%	41%	59%	0%	0%	0%	31%	17%	52%	0%		

# COST TO KCC HIGHWAYS, TRANSPORTATION & WASTE FOR THE FELLING & PRUNING OF ASH DIEBACK INFECTED ASH ON KCC ESTATE



\* Figure up to 30<sup>th</sup> June 2024