

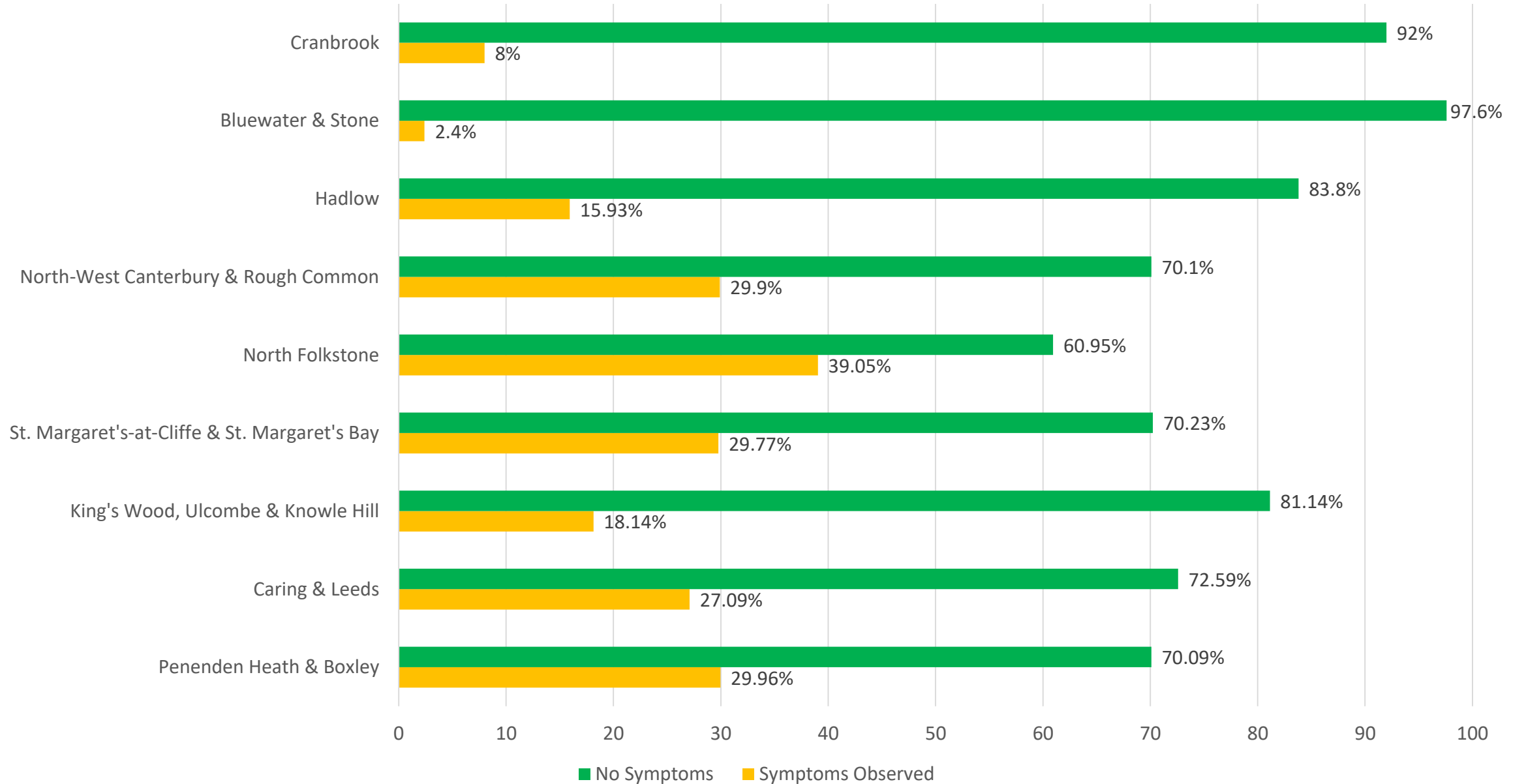
Ash Dieback Tetrad Survey Data for Kent 2018

Tony P. Harwood

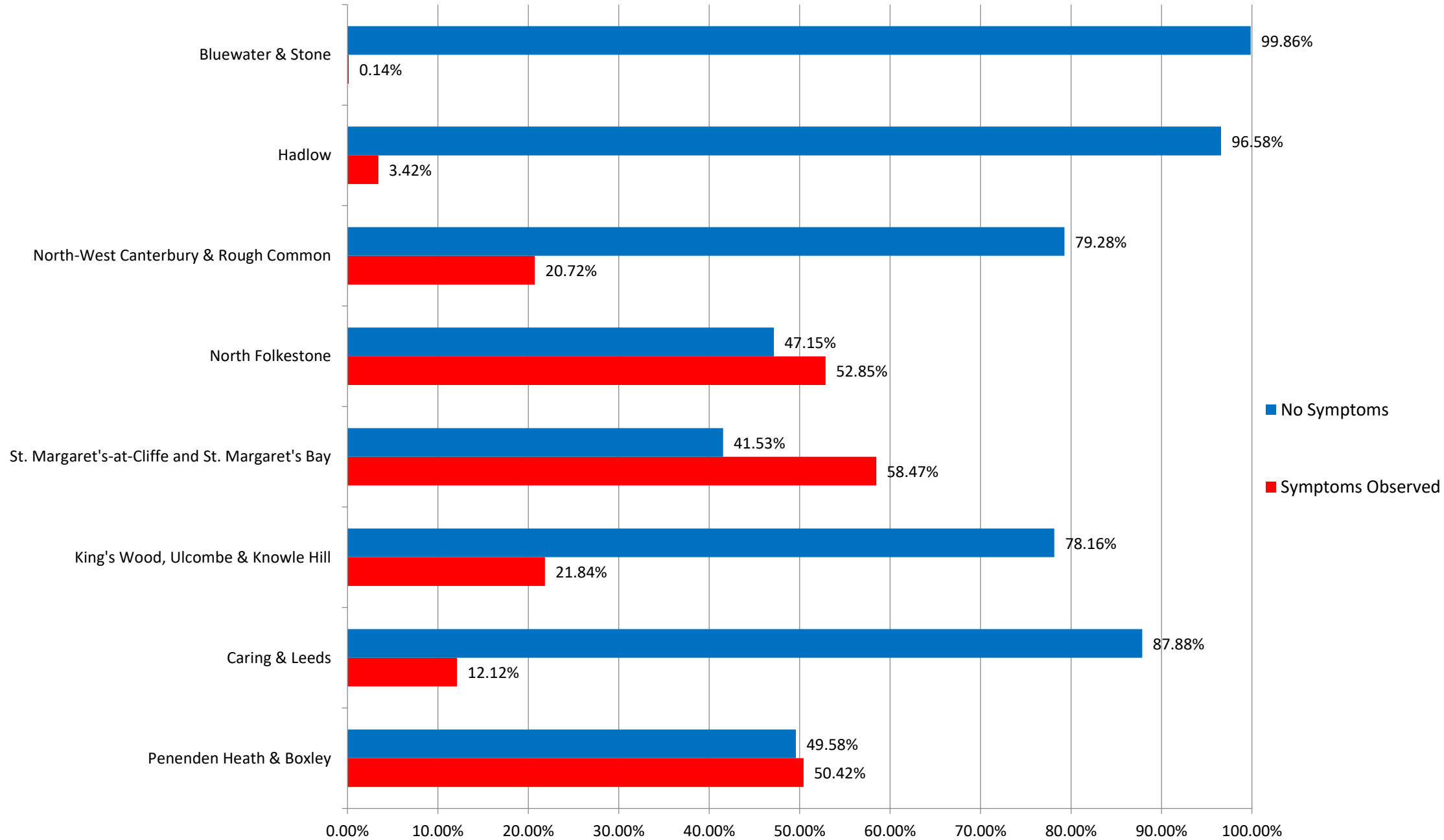
Louise A. Butfoy

July 2018

Percentage of Ash with No Symptoms Comparison to Ash with Observed Symptoms 2018

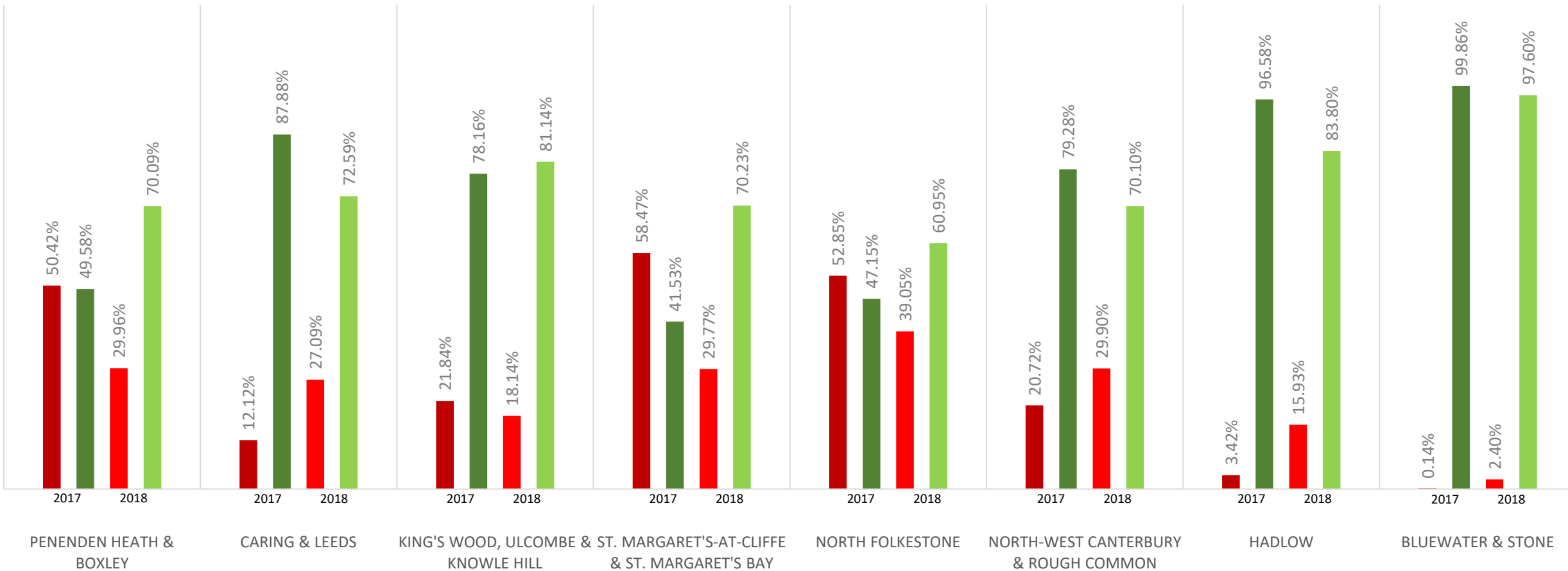


Percentage of Ash with No Symptoms Comparison to Ash with Observed Symptoms 2017

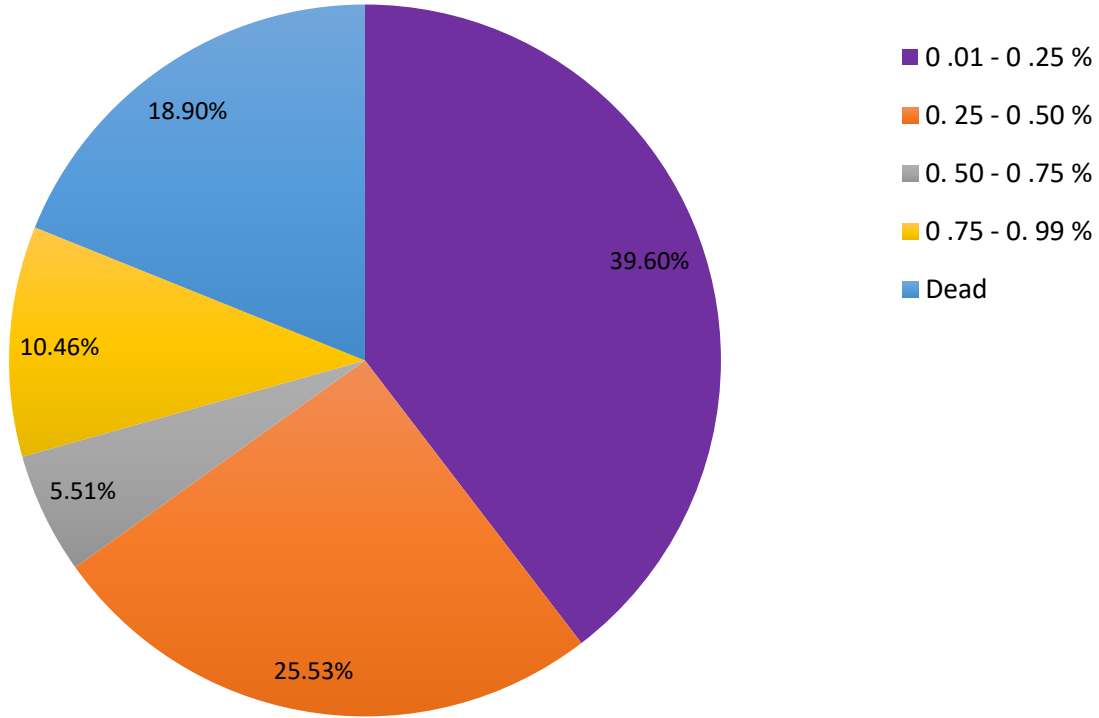


PERCENTAGE OF ASH WITH NO SYMPTOMS COMPARISON TO ASH WITH OBSERVED SYMPTOMS SUMMER 2017 & 2018

■ Symptoms Observed 2017 ■ No Symptoms 2017 ■ Symptoms Observed 2018 ■ No Symptoms 2018



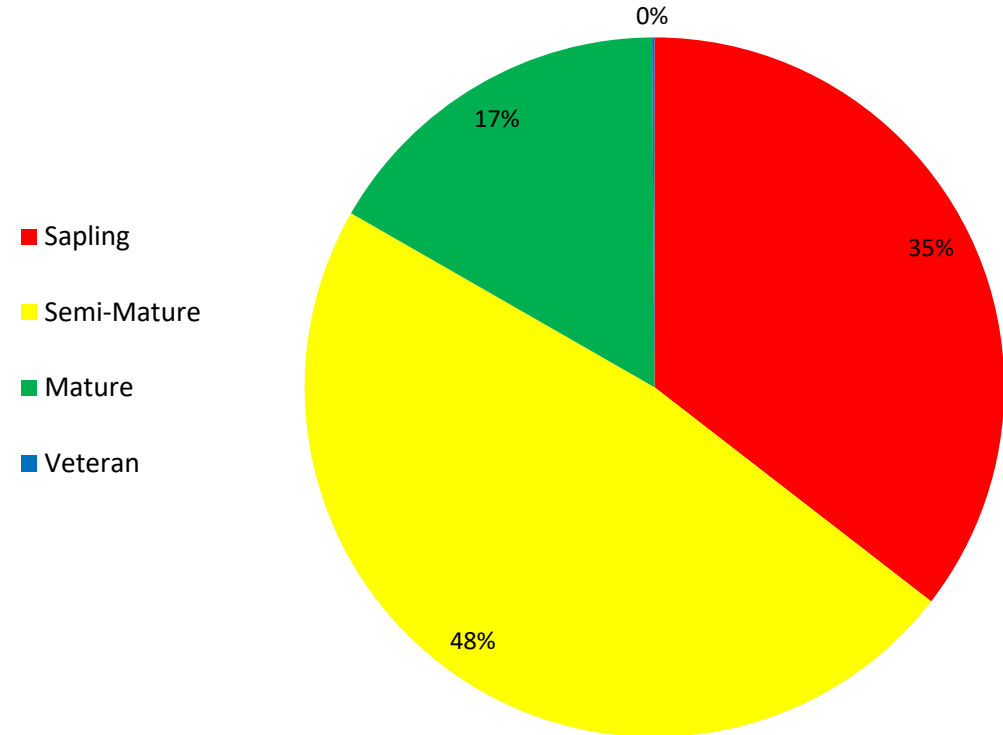
Percentage of Total Infected Trees in Tetrad Exhibiting Varying Levels of Crown Loss as a Result of Ash Dieback



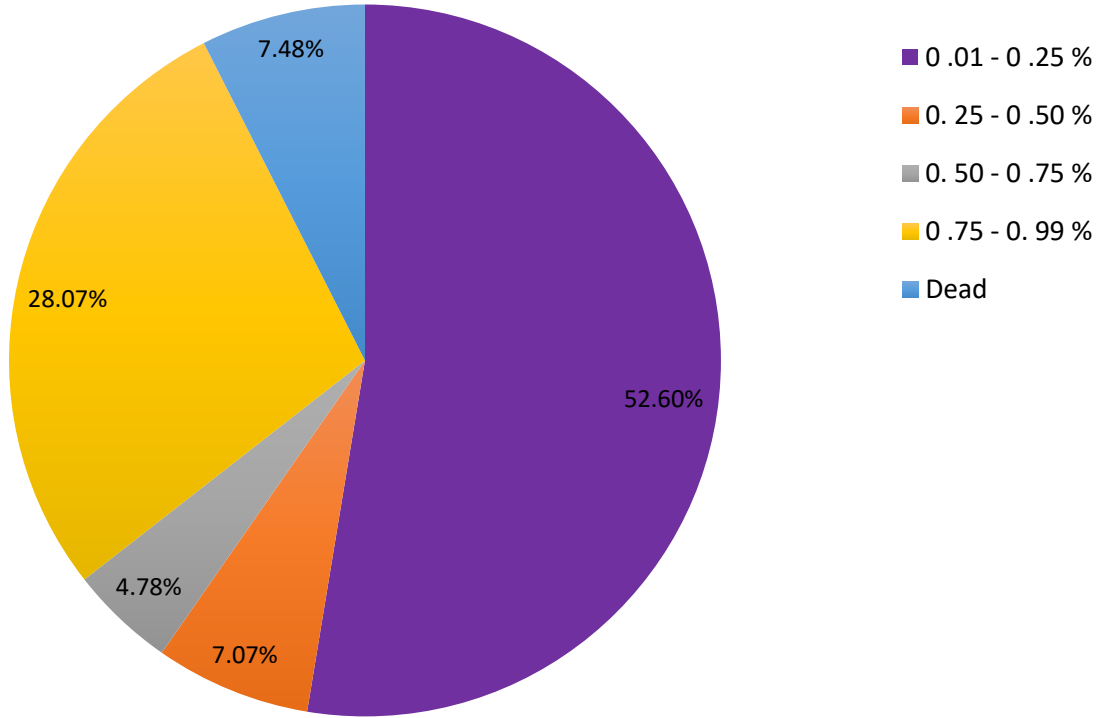
Penenden Heath & Boxley Tetrad - 2952 trees in total, 2067 (70.04%) show no symptoms of Ash Dieback and 884 (29.96%) do show symptoms. Majority of infected trees (39.60%) have 0.01 – 0.25% crown loss, followed by 0.25-0.50% crown loss (25.53%). Majority of the infected trees are semi-mature, unmanaged and majority of non-infected trees are sapling, managed.

1. Mid Kent
Penenden Heath & Boxley
Tetrad 2018

Age/Size of Ash Dieback Infected Trees in Tetrad



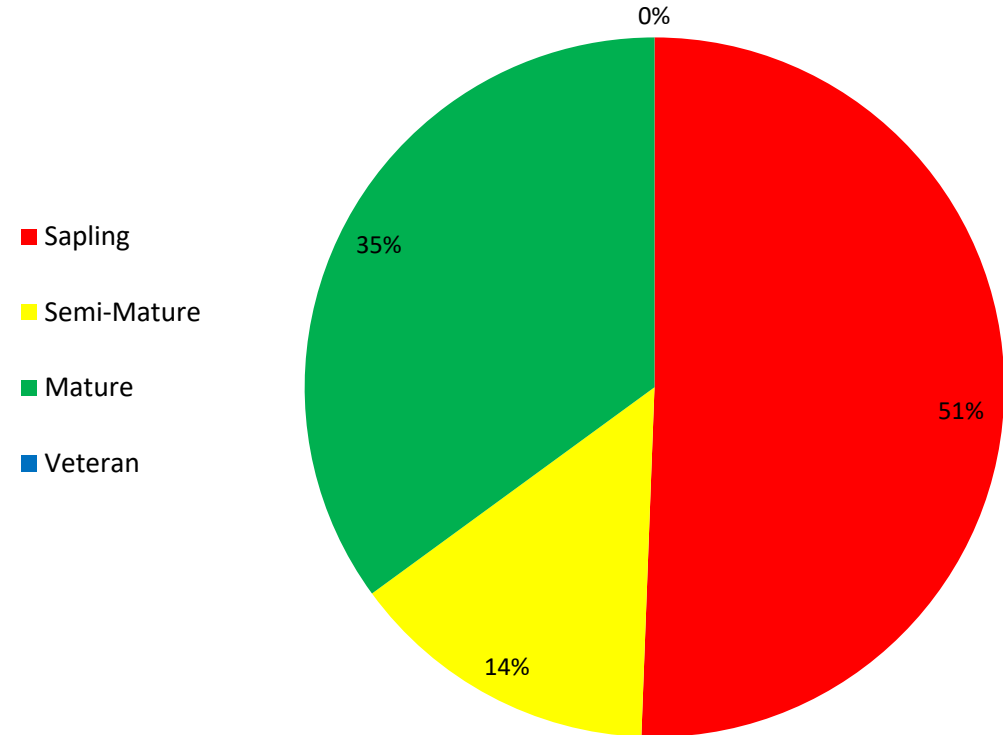
Percentage of Total Infected Trees in Tetrad Exhibiting Varying Levels of Crown Loss as a Result of Ash Dieback



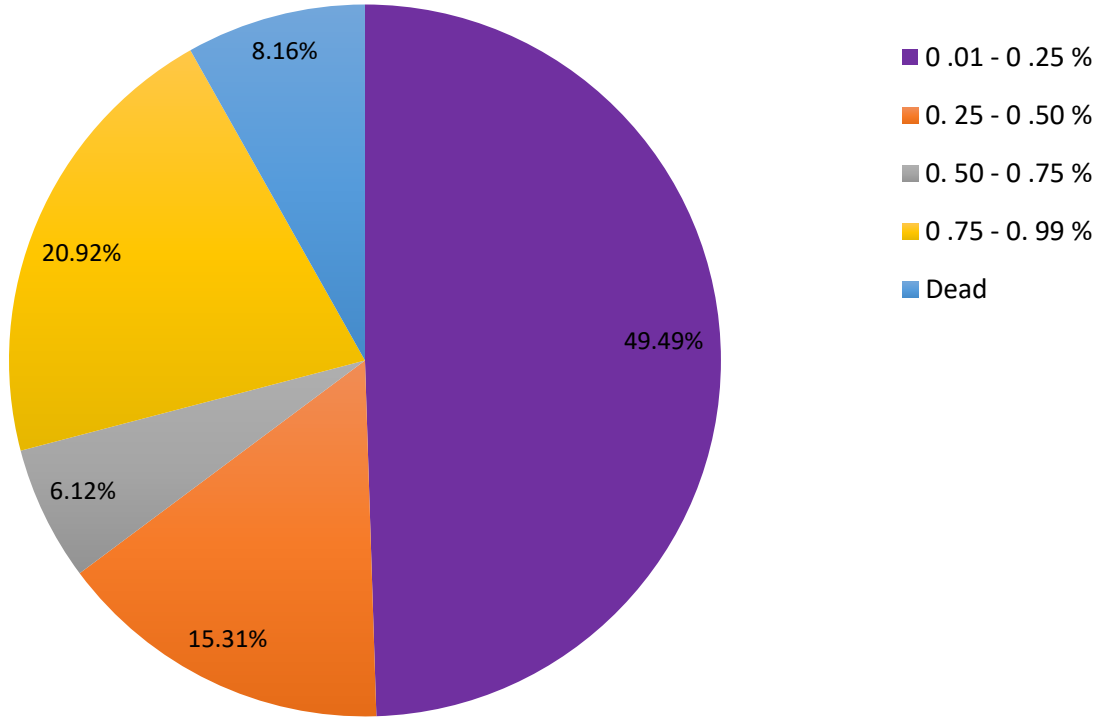
Caring & Leeds Tetrad - 1868 trees in total, 1356 (72.59%) show no symptoms of Ash Dieback and 506 trees (27.09%) do show symptoms. Majority of infected trees (52.60%) have 0.1 – 0.25% crown loss, followed by 0.75-0.99% crown loss (28.07%). Majority of the infected trees are sapling, managed. Majority of non-infected trees are saplings, un-managed.

**2. Mid Kent
Caring & Leeds Tetrad 2018**

Age/Size of Ash Dieback Infected Trees in Tetrad



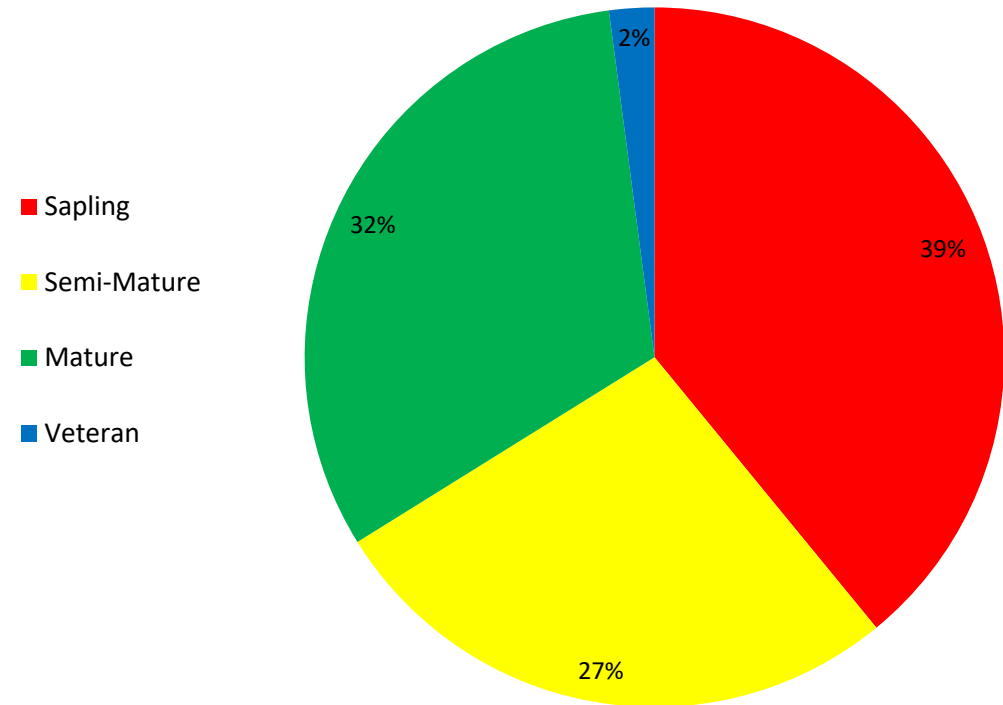
Percentage of Total Infected Trees in Tetrad Exhibiting Varying Levels of Crown Loss as a Result of Ash Dieback



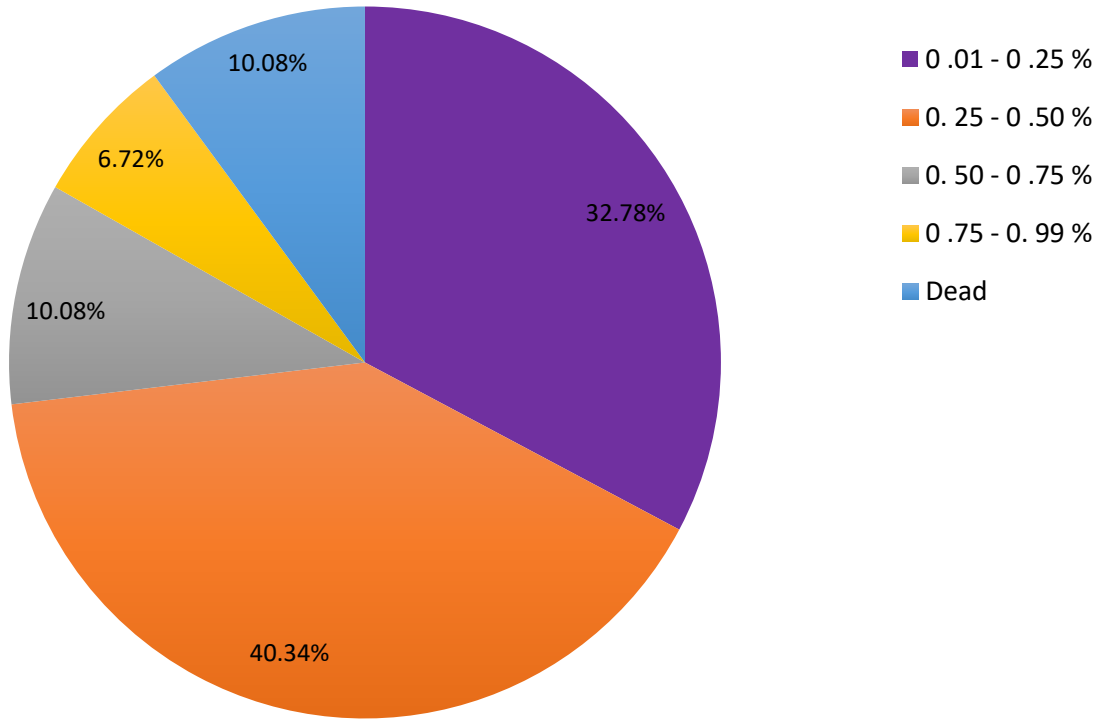
King's Wood, Ulcombe & Knowle Hill Tetrad - 1075 trees in total, **880 (81.86%)** show no symptoms of Ash Dieback and **195 trees (18.14%)** do show symptoms. Majority of infected trees (**49.49%**) have **0.1 – 25%** crown loss, followed by **75 – 99%** crown loss (**20.92%**). Majority of the infected trees are sapling, managed. Majority of non-infected trees are sapling, coppiced.

**3. Mid Kent
King's Wood, Ulcombe &
Knowle Hill Tetrad 2018**

Age/Size of Ash Dieback Infected Trees in Tetrad



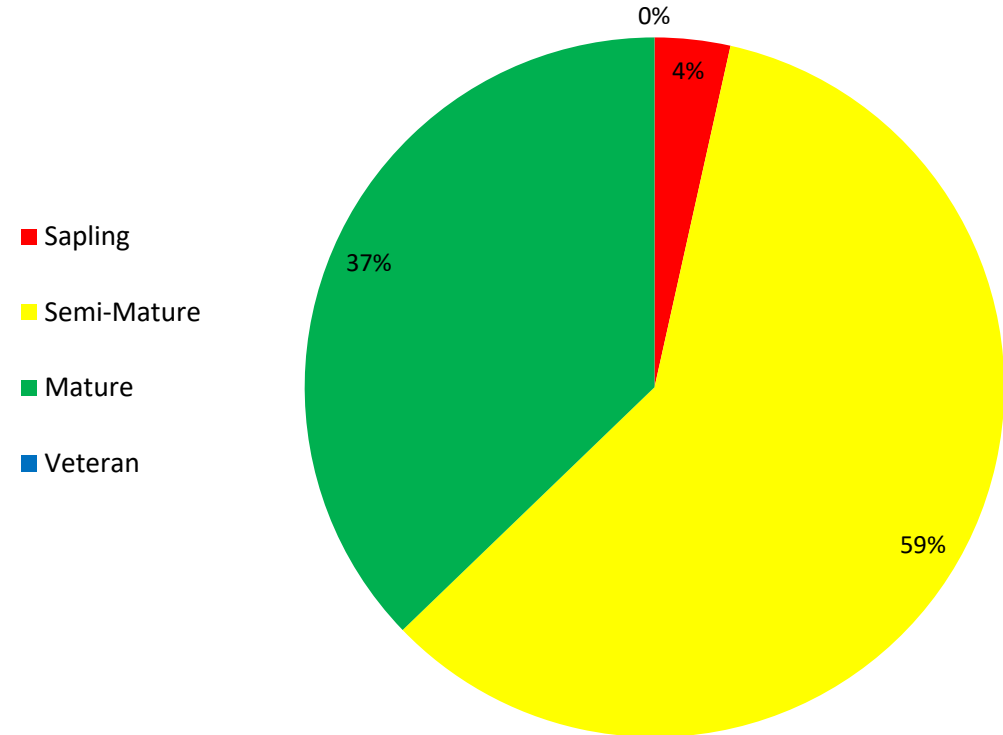
Percentage of Total Infected Trees in Tetrad Exhibiting Varying Levels of Crown Loss as a Result of Ash Dieback



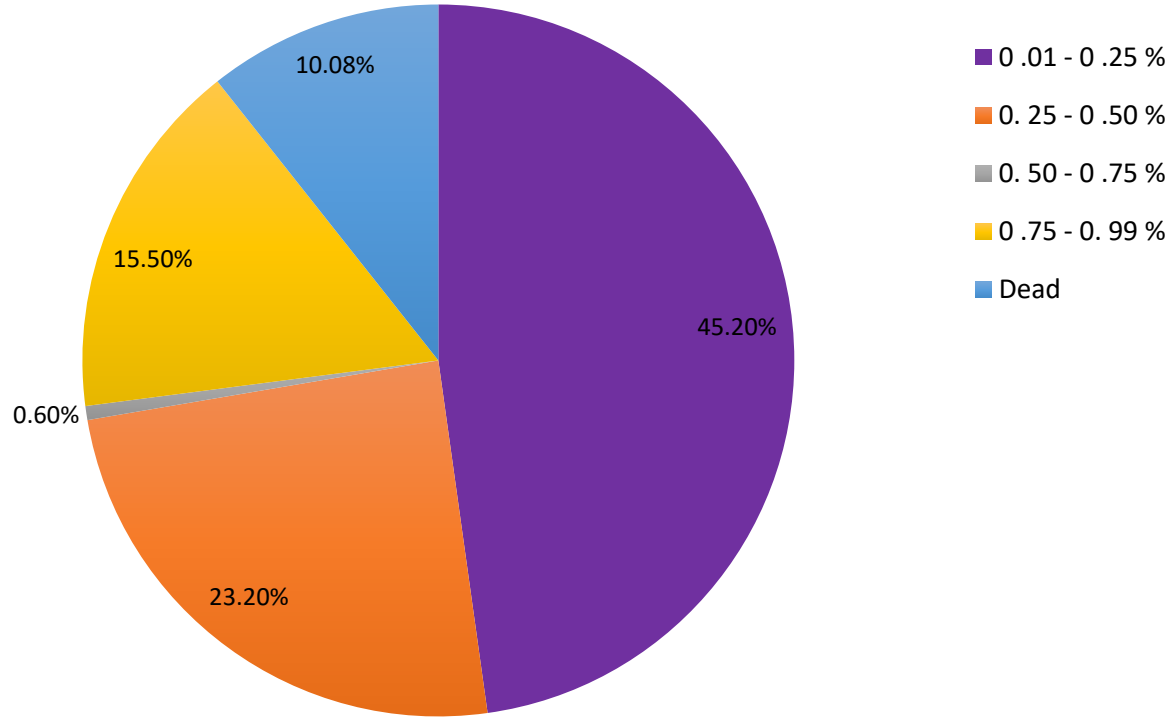
St. Margaret's-at-Cliffe & St. Margaret's Bay Tetrad - 299 trees in total, 210 (70.23%) show no symptoms of Ash Dieback and 89 trees (29.77%) do show symptoms. Majority of infected trees (40.34%) have 0.25 – 0.50% crown loss, followed by 0.01 – 0.25% crown loss (32.78%). Majority of the infected trees are mature, managed. Majority of non-infected trees are semi-mature, managed.

**4. East Kent
St. Margaret's-at-Cliffe & St. Margaret's Bay Tetrad 2018**

Age/Size of Ash Dieback Infected Trees in Tetrad



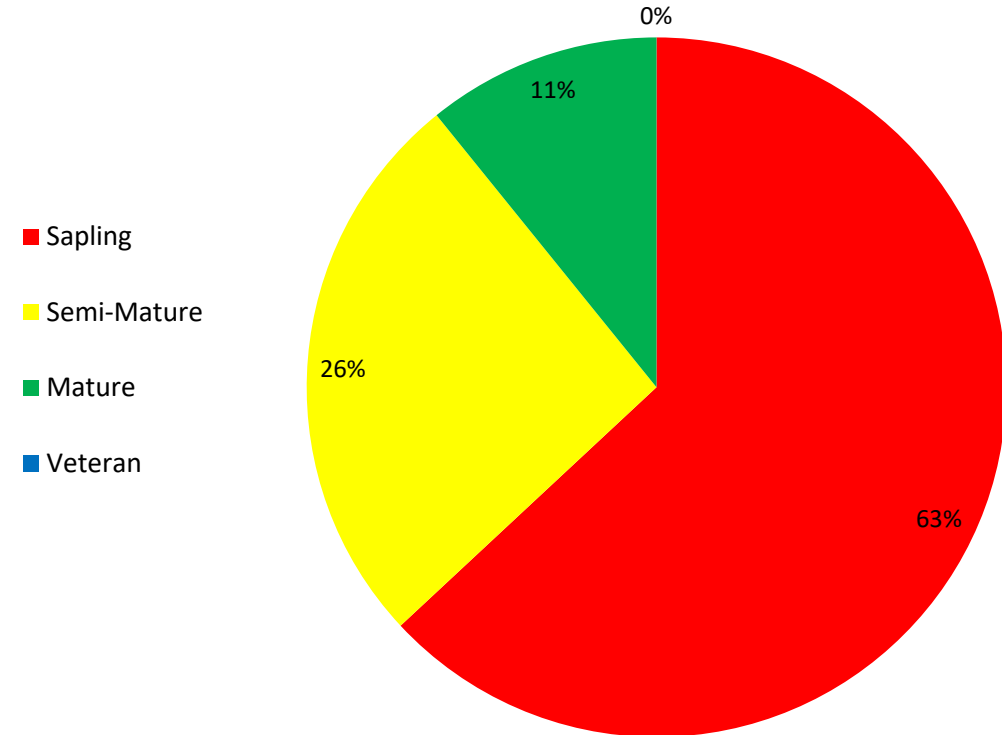
Percentage of Total Infected Trees in Tetrad Exhibiting Varying Levels of Crown Loss as a Result of Ash Dieback



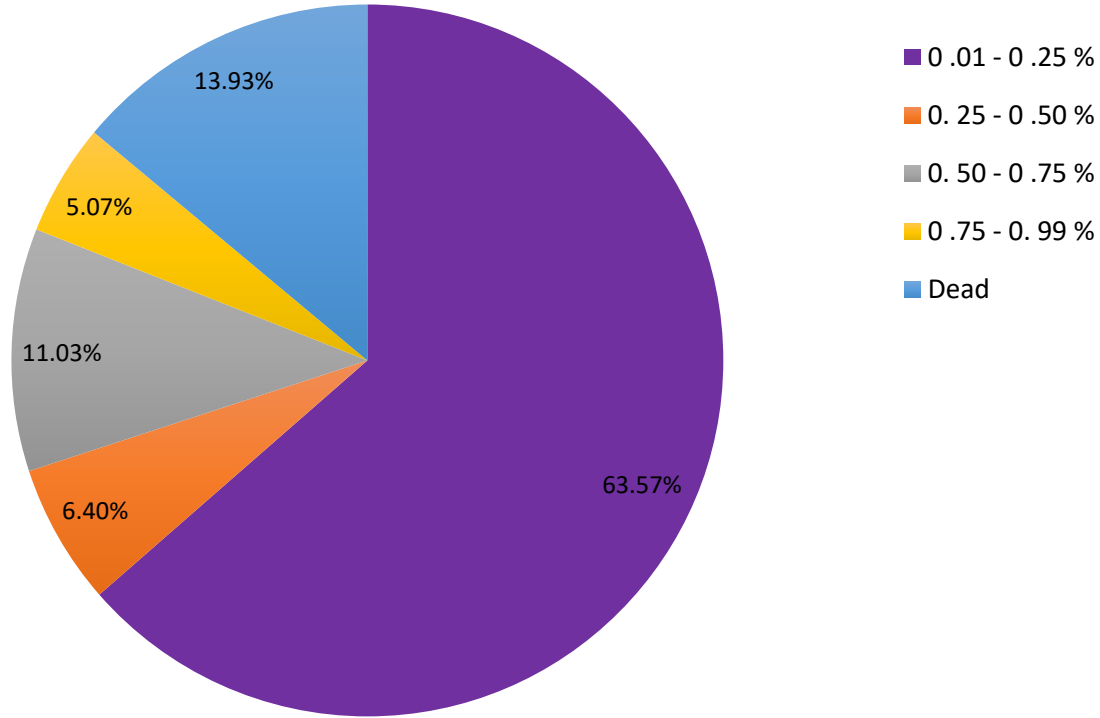
North-West Canterbury & Rough Common Tetrad - 519 trees in total, 364 (70.10%) show no symptoms of Ash Dieback and 155 trees (29.90%) do show symptoms. Majority of infected trees (42.20%) have 0.01-0.25% crown loss followed by 0.25 – 0.50% crown loss (23.20%). Majority of the infected trees are saplings, managed. Majority of non-infected trees are saplings, managed.

**5. East Kent
North-West Canterbury &
Rough Common Tetrad
2018**

Age/Size of Ash Dieback Infected Trees in Tetrad

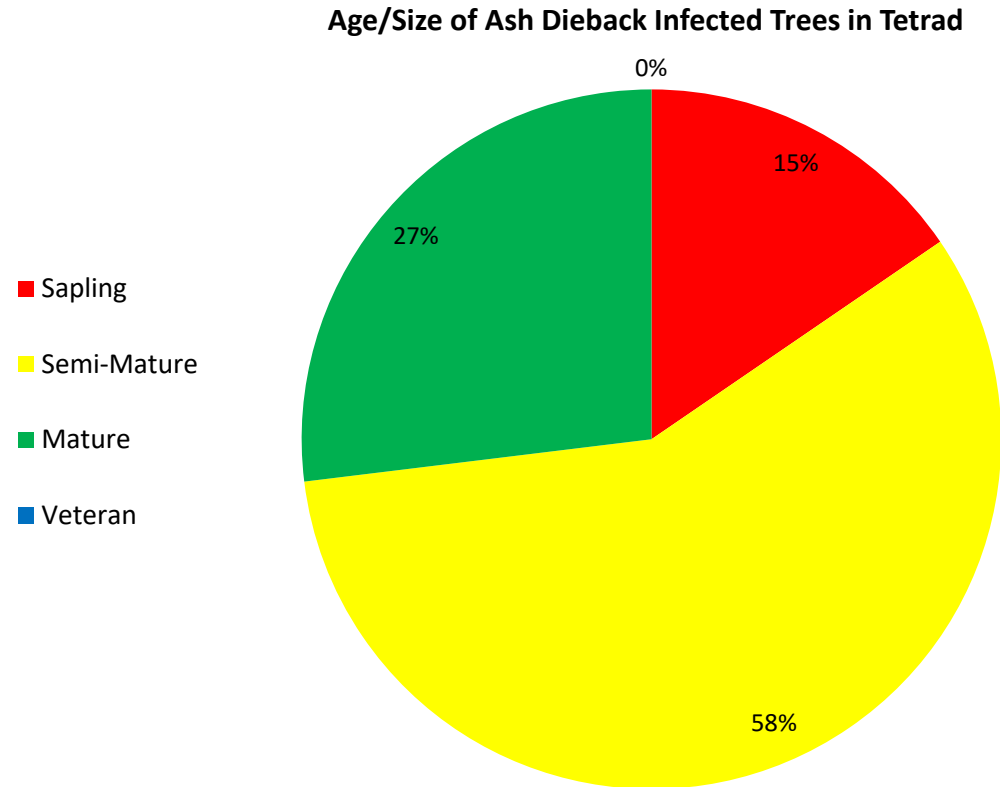


Percentage of Total Infected Trees in Tetrad Exhibiting Varying Levels of Crown Loss as a Result of Ash Dieback

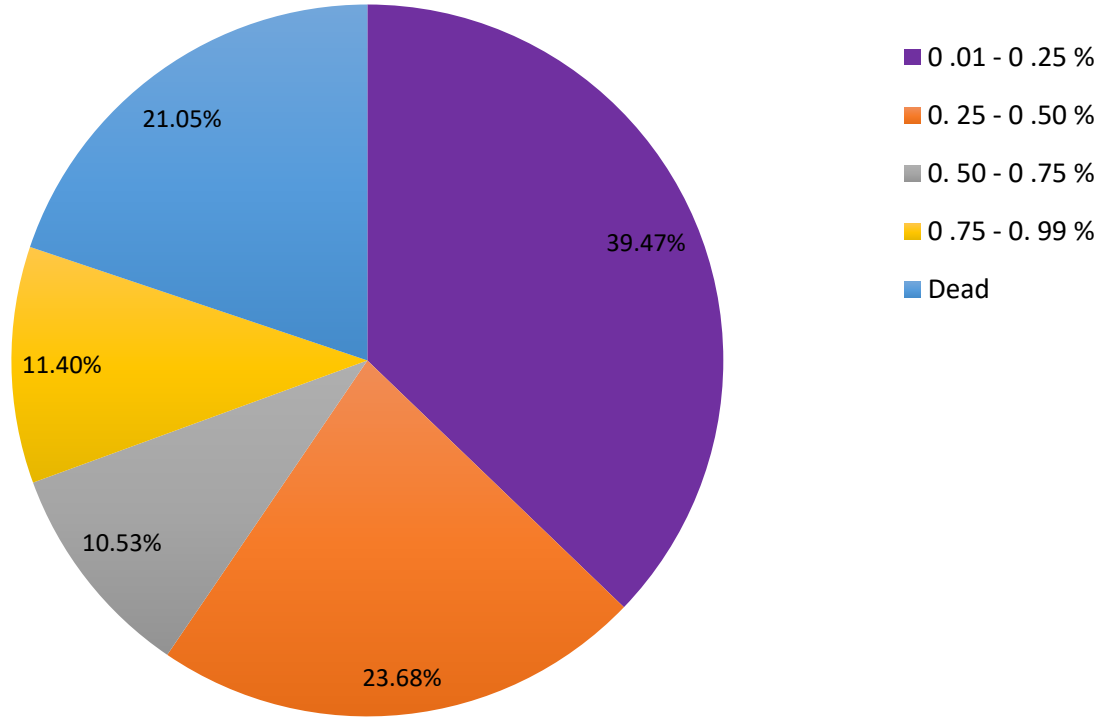


North Folkestone Tetrad - 1160 trees in total, 707 (60.95%) show no symptoms of Ash Dieback and 453 trees (39.05%) do show symptoms. Majority of infected trees (63.57%) have 0.1 – 0.25% crown loss, followed by 100% dead (13.93%). Majority of the infected trees are semi-mature, managed. Majority of non-infected trees are semi-mature, managed.

**6. East Kent
North Folkestone Tetrad
2018**



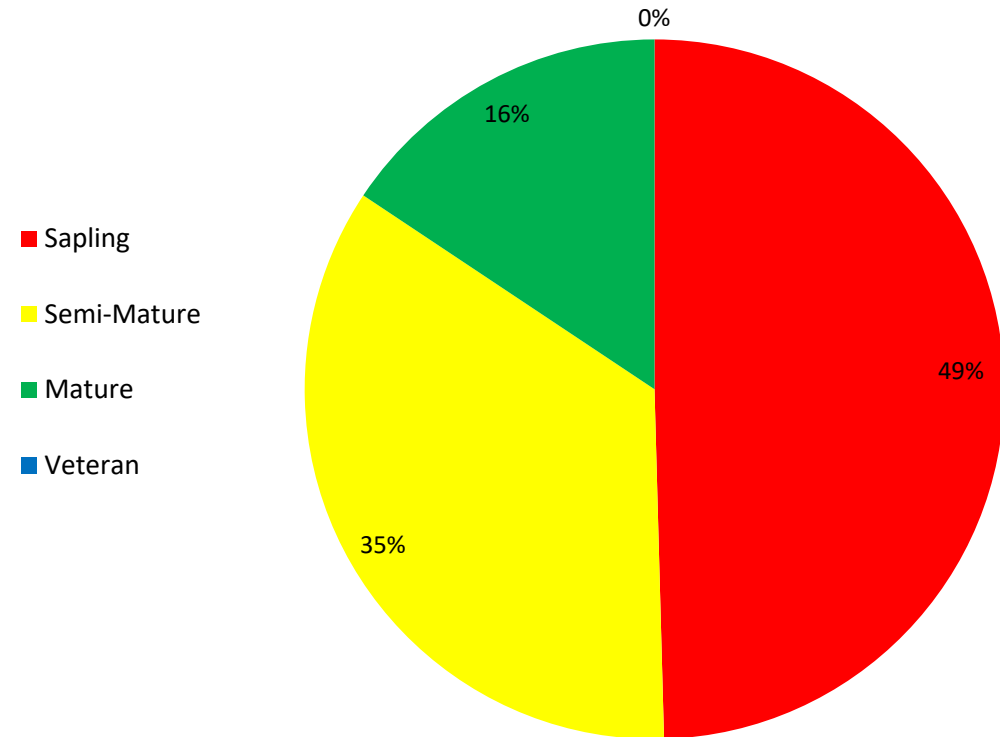
Percentage of Total Infected Trees in Tetrad Exhibiting Varying Levels of Crown Loss as a Result of Ash Dieback



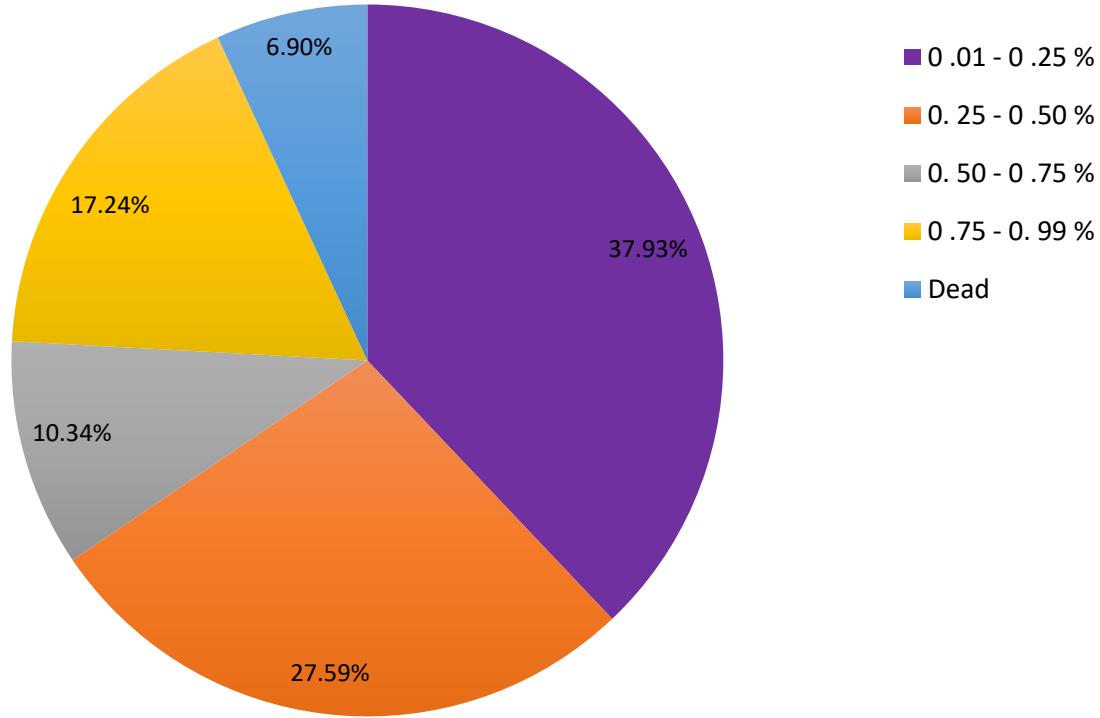
Hadlow Tetrad - 722 trees in total, 605 (83.80%) show no symptoms of Ash Dieback and **115 trees (15.93%)** do show symptoms. Majority of infected trees (**39.47%**) have **0.01 – 0.25%** crown loss, followed by **0.25-0.50%** crown loss (**23.68%**). Majority of the infected trees are saplings, managed. Majority of non-infected trees are saplings, managed.

**7. West Kent
Hadlow Tetrad 2018**

Age/Size of Ash Dieback Infected Trees in Tetrad



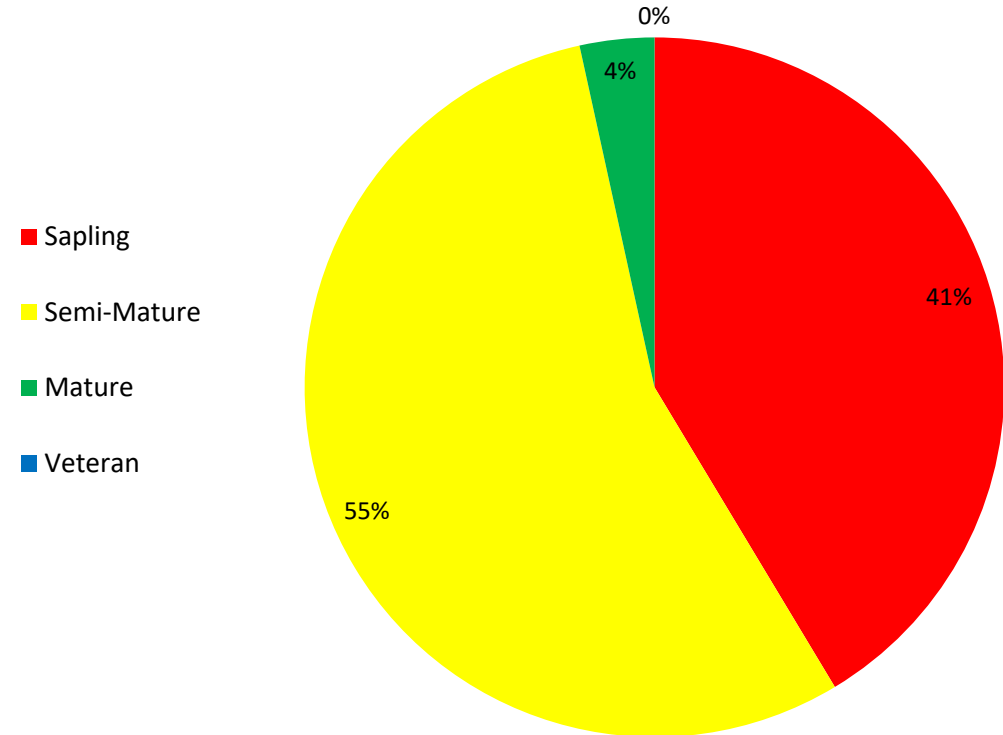
Percentage of Total Infected Trees in Tetrad Exhibiting Varying Levels of Crown Loss as a Result of Ash Dieback



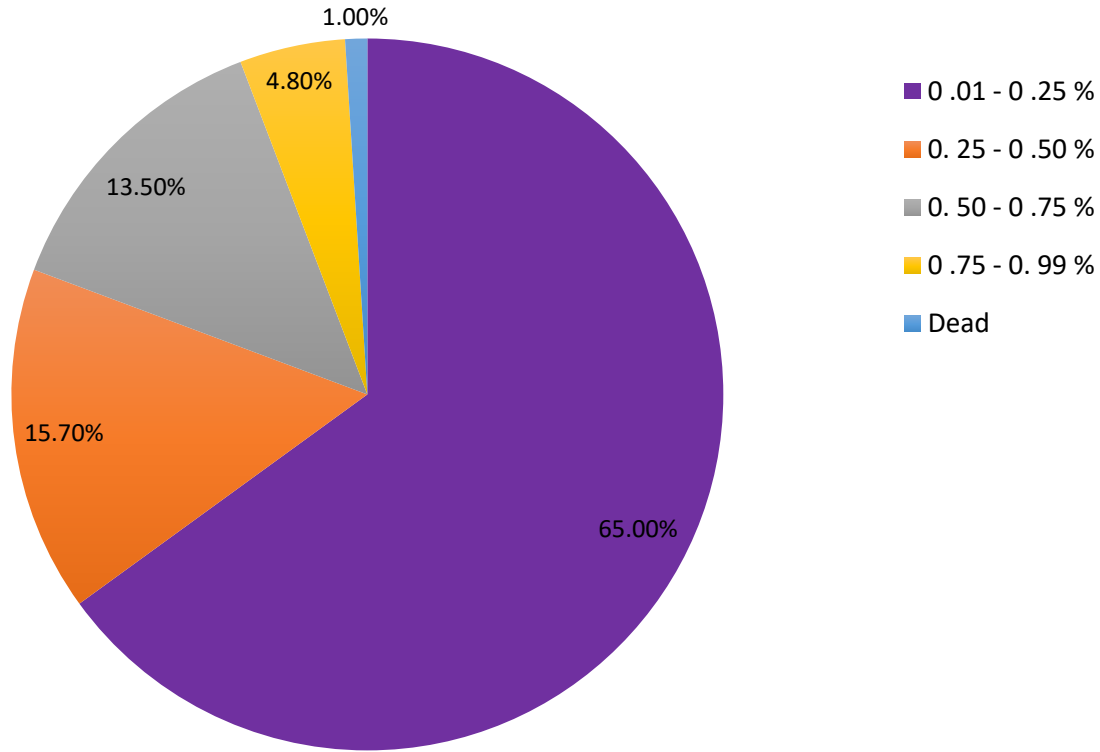
Bluewater & Stone Tetrad – 1210 trees in total, 1181 (97.60%) show no symptoms of Ash Dieback and 29 trees (2.40%) do show symptoms. Majority of infected trees (37.93%) have 0.01 – 0.25% crown loss, followed by 0.25-0.50% crown loss (27.59%). Majority of the infected trees are semi-mature, managed. Majority of non-infected trees are saplings, managed.

**8. West Kent
Bluewater & Stone Tetrad
2018**

Age/Size of Ash Dieback Infected Trees in Tetrad



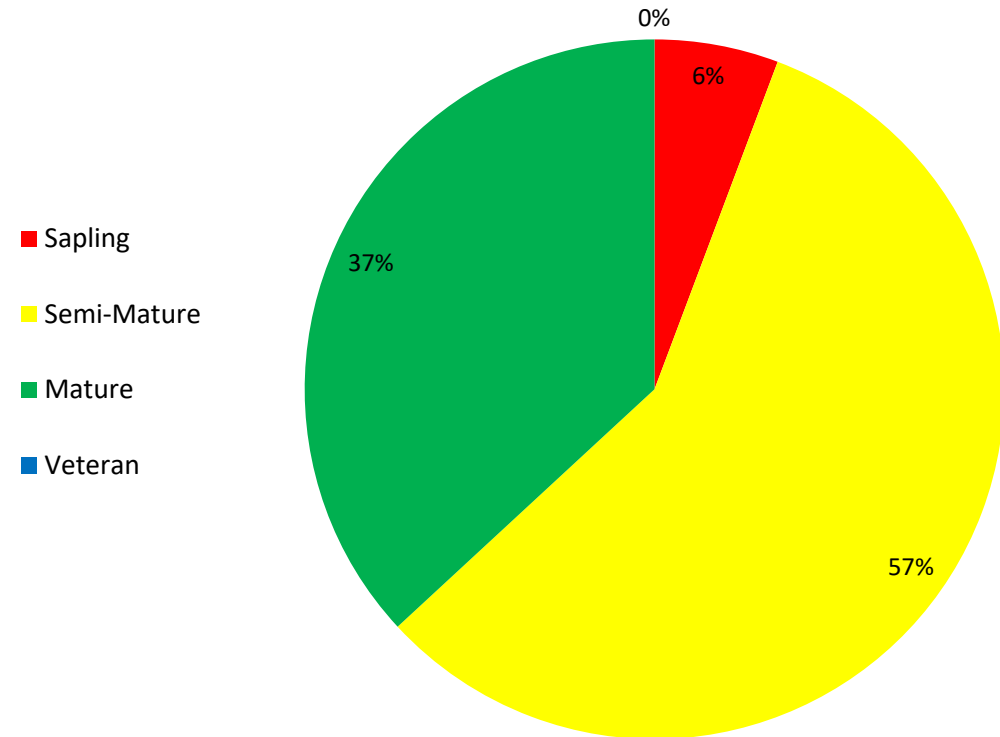
Percentage of Total Infected Trees in Tetrad Exhibiting Varying Levels of Crown Loss as a Result of Ash Dieback



Cranbrook Urban Area Tetrad – 1040 trees in total, 957 (92.00%) show no symptoms of Ash Dieback and 83 trees (8.00%) do show symptoms. Majority of infected trees (65.00%) have 0.01 – 0.25% crown loss, followed by 0.25-0.50% crown loss (15.70%). Majority of the infected trees are semi-mature, unmanaged. Majority of non-infected trees are semi-mature, unmanaged.

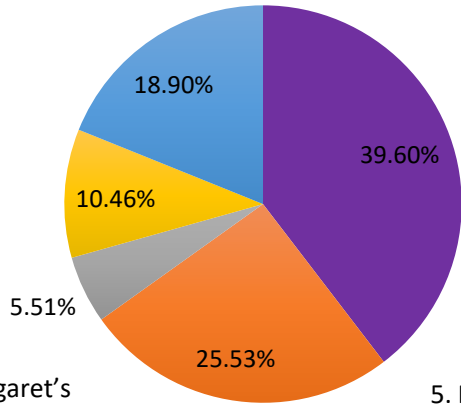
**9. West Kent
Cranbrook Urban Area
Tetrad 2018**

Age/Size of Ash Dieback Infected Trees in Tetrad

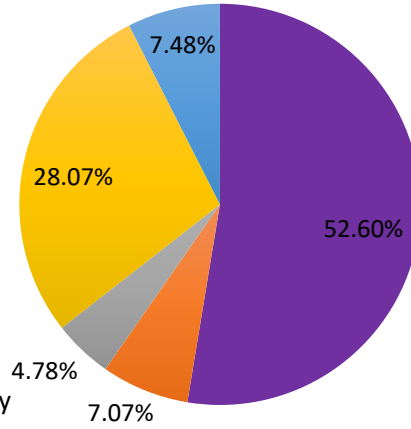


Percentage of Total Infected Trees in All Tetrads Exhibiting Varying Levels of Crown Loss as a Result of Ash Dieback.

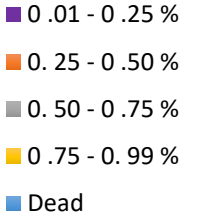
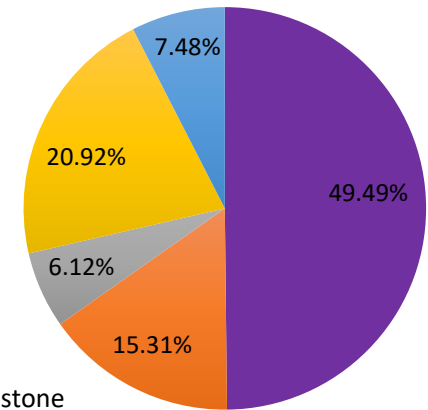
1. Mid Kent - Penenden Heath & Boxley Tetrads



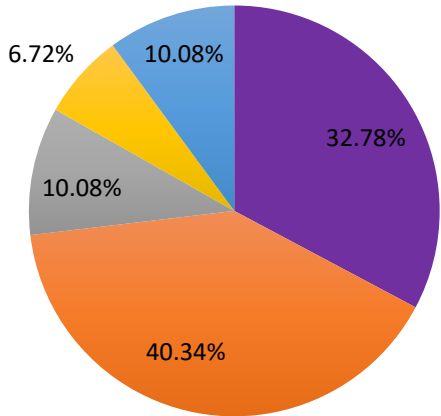
2. Caring & Leeds



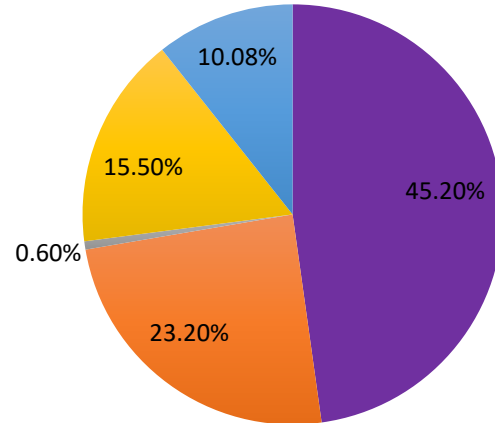
3. King's Wood, Ulcombe & Knowle Hill



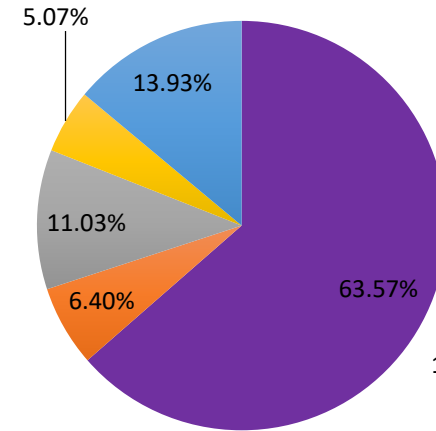
4. East Kent - St. Margaret's-at-Cliffe & St. Margaret's Bay



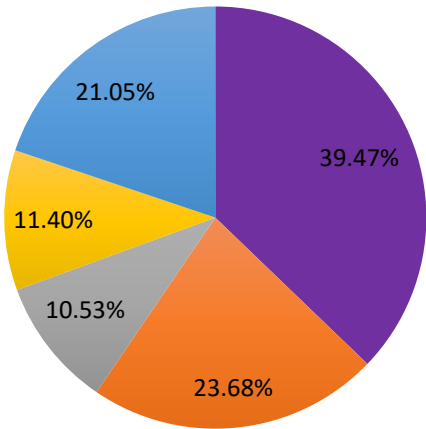
5. North-West Canterbury & Rough Common



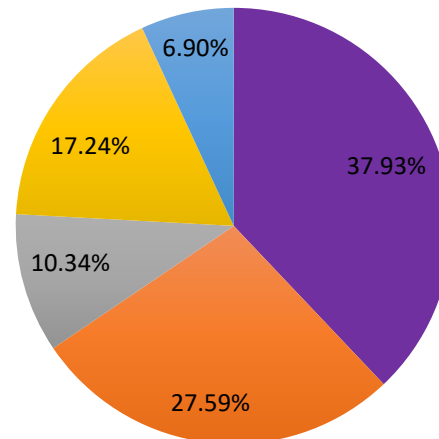
6. North Folkestone



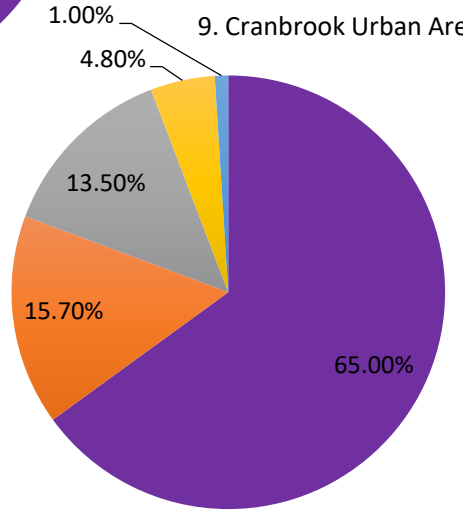
7. West Kent - Hadlow



8. Bluewater & Stone

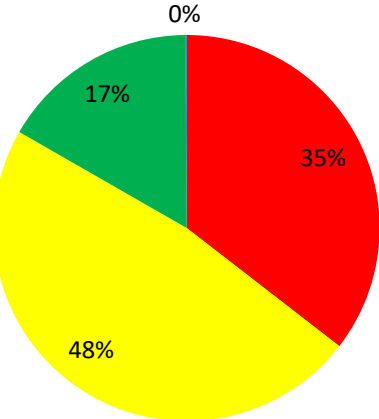


9. Cranbrook Urban Area

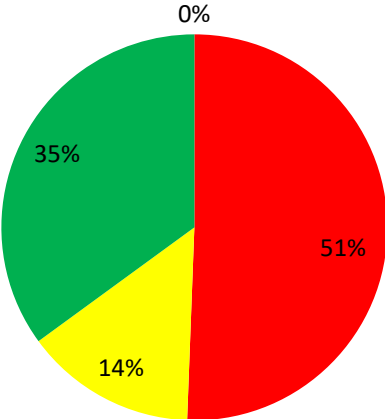


Age/Size of Ash Dieback Infected Trees in All Tetrads

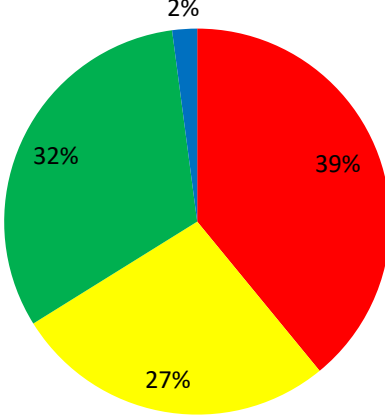
1. Mid Kent - Penenden Heath & Boxley



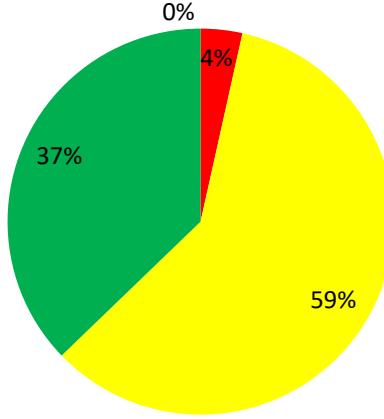
2. Caring & Leeds



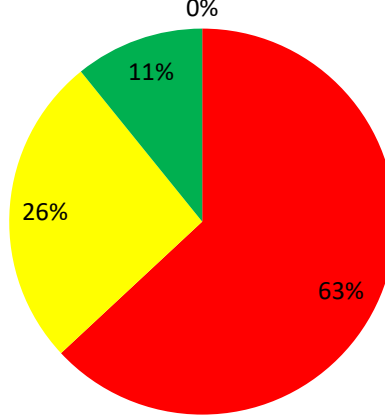
3. King's Wood, Ulcombe & Knowle Hill



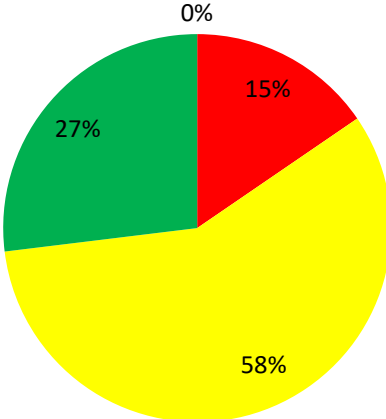
4. East Kent - St. Margaret's-at-Cliffe & St. Margaret's Bay



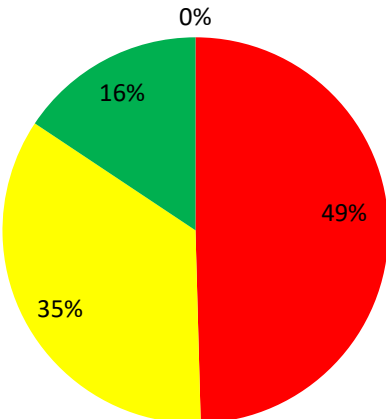
5. North-West Canterbury & Rough Common



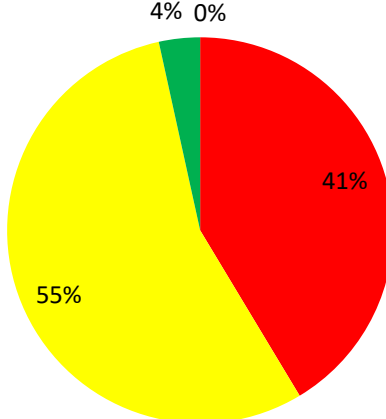
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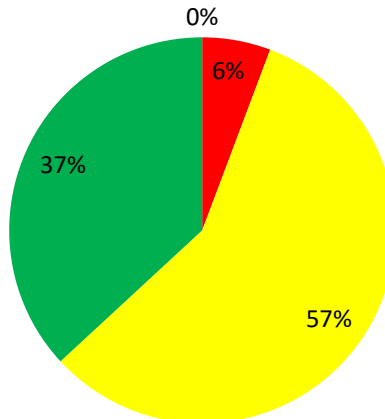
7. West Kent - Hadlow



8. Bluewater & Stone

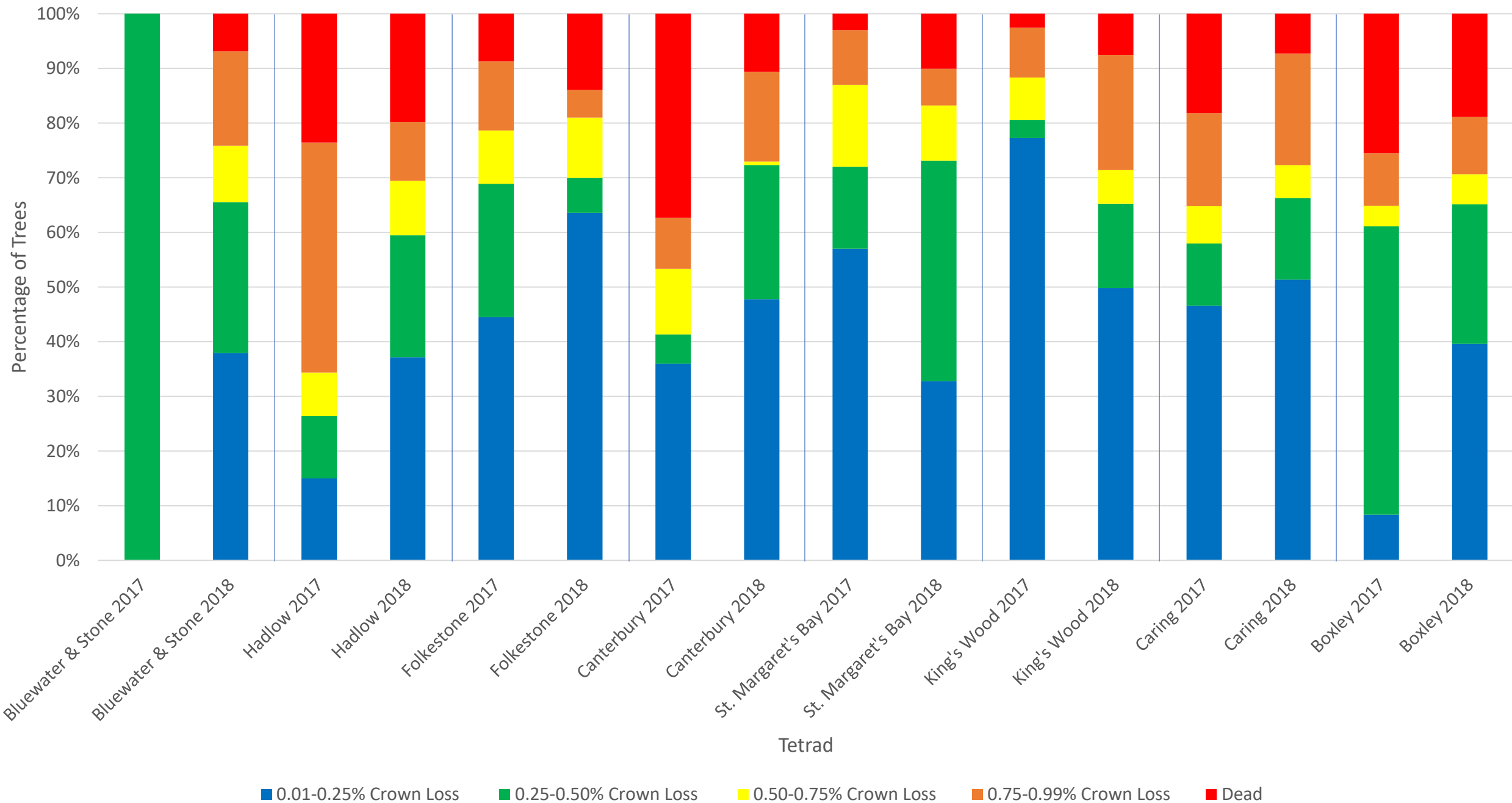


9. Cranbrook Urban Area

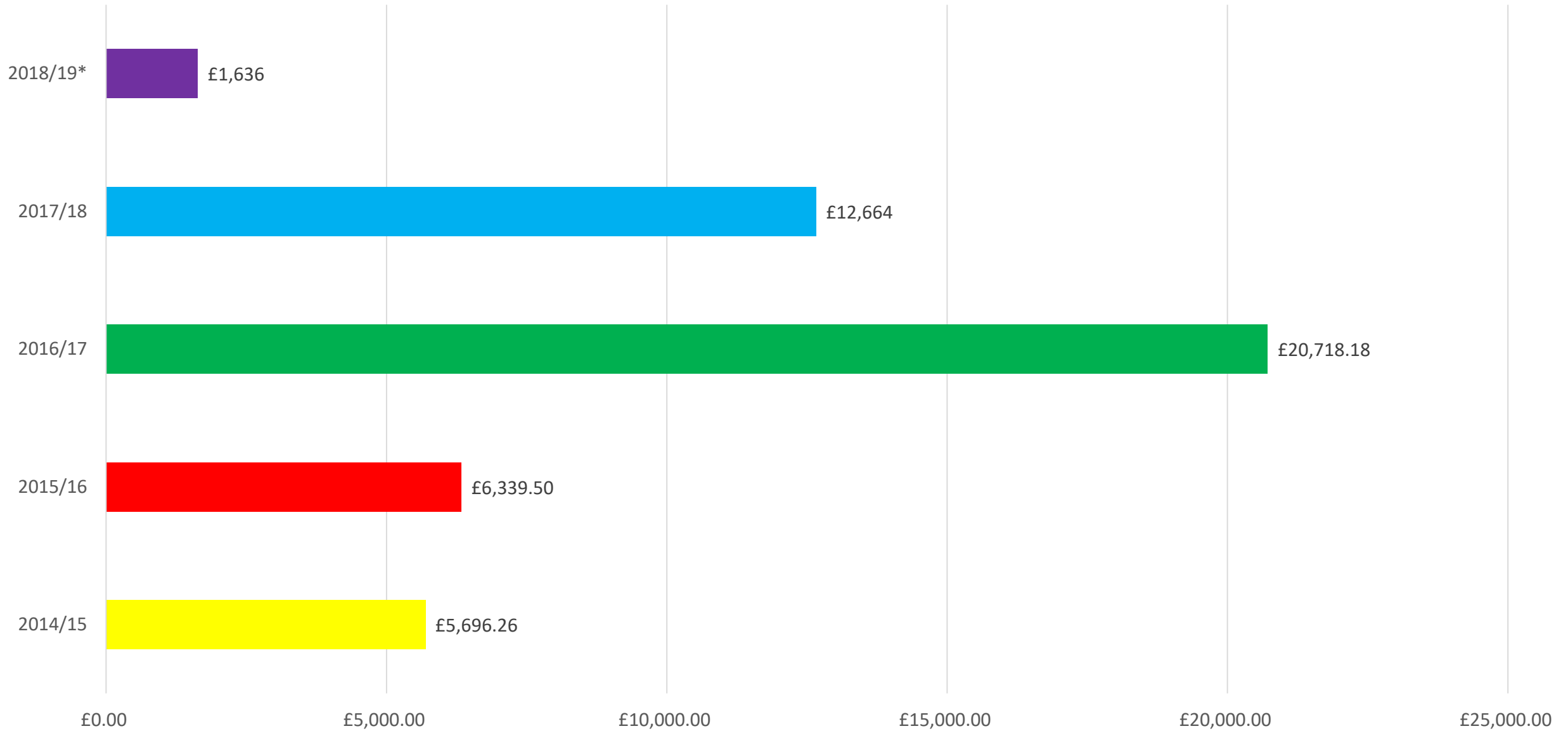


- Sapling
- Semi-Mature
- Mature
- Veteran

KCC Survey of Ash Tetrads Levels of Dieback 2017 & 2018



Cost to KCC Highways, Transportation & Waste for the felling & pruning of Ash Dieback infected Ash on KCC estate.



* 2018/19 figure is to date: 03/07/18.

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%		