

Pigeon activity and numbers data extracted from Trac Monthly contract reports November 2021 – October 2022. November report data available early December 2022.

November 2021

7 visits were completed in November 2021. During this time the operatives became familiar with the campus, whilst introducing hawks to the area.

Days and times of visits were varied including 2x weekend visits and 2x sunrise visits. The average number of pest birds on campus pre-deterrents was **19**. Our counts show that post deterrent work the average number was **9**. This shows a **53%** reduction in numbers whilst Avian are on-site. The below table shows what looks like some strange fluctuations in numbers throughout November. However, we believe this relates to the areas that were proofed late in the month.

It looks to us that whilst the hawks were at work some birds took to sheltering within the afore mentioned roosts, making final counts slightly lower than our post proofing counts.

VISIT DATE	Nov 9th	Nov 13th	Nov 15th	Nov 19th	Nov 24th	Nov 26th	Nov 28th	AVE.
TOTAL PIGEONS SEEN ON ARRIVAL	21	21	25	15	14	19	21	19

VISIT DATE	Nov 9th	Nov 13th	Nov 15th	Nov 19th	Nov 24th	Nov 26th	Nov 28th	AVE.
TOTAL PIGEONS SEEN ON DEPARTURE	11	13	9	5	5	11	14	9

Post deterrent numbers should reduce further in coming months as 2 areas within the Service Yard/Ramp where pigeons liked to overnight, were recently identified and proofed. We fully expect these excluded birds to remain on campus in the coming days and weeks due to their homing instincts, however as they do not have access to their historic roost it is probable, they will be much more likely to seek safety from our hawks off campus

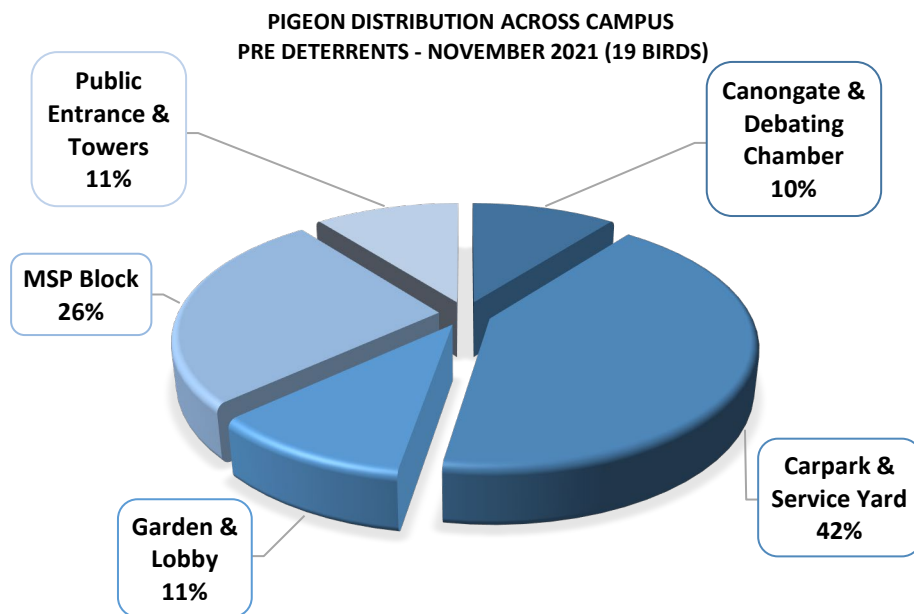
Example of netting (Ramp)



Specific Building Locations

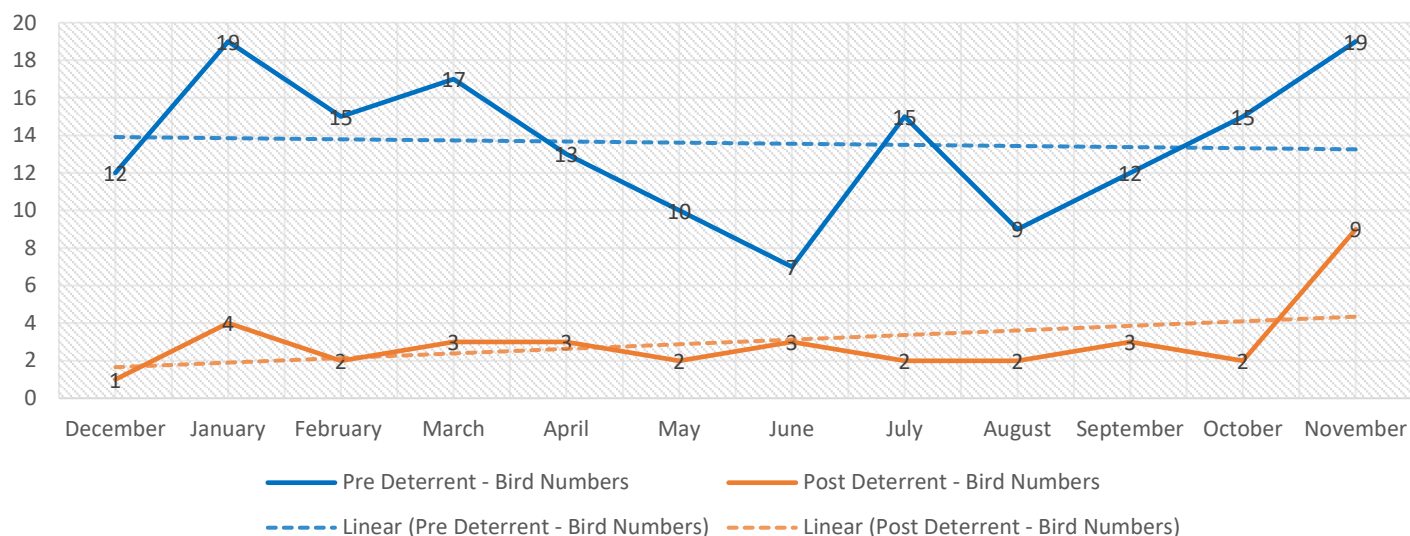
The chart below indicates the peak number of pigeons seen in each area congregated at any one time.

PEAK POINT NUMBERS SEEN ON ARRIVAL	CANONG ATE /DEBATI NG CHAMBE R	SERVI CE YARD	GARDE N & LOBBY	MSP BLOCK	PUBLIC ENTRA NCE & TOWER S
PIGEONS	2	8	2	5	2



Annual Pre & Post deterrent numbers

Numbers Dec '20 - Oct '21 submitted by previous supplier



The Blue line indicates the pigeon numbers seen on arrival before the disturbance takes place, versus the same month last year, the Orange line

Plan for December 2021:

Following on from the information above we will be concentrating on the Service Yard and MSP Block areas to unsettle the birds that have recently been excluded from their roost, we feel it's crucial to challenge these birds before they settle elsewhere within the campus.

Areas of concern:

Car Park/Service Yard and MSP Block. It was noted that TRAC were working on the high elevations of the MSP Block for some of the month. We will monitor the area closely and report the results once the work concludes and the area becomes quiet again

December 2021

7 visits were completed in December 2021. During this time the operatives were again in attendance around campus, with hawks. One in particular is now extremely familiarised with the job and has been in attendance on every visit thus far.

Days and times of visits were varied including 2x weekend visits and 3x sunrise visits.

The average number of pest birds on campus pre-deterrents was **16**. Our counts show that post deterrent work the average number was **6**.

This shows a **63.5%** reduction in numbers whilst Avian are on-site. There is also a reduction in birds in comparison to November, this can likely be attributed to the proofing works that were completed in the Service Yard. It was also noted on days where the temperatures stayed around zero, pigeons were extremely reluctant to leave site and instead, flocked together around the heat ventilators high on S/E facing towers.

VISIT DATE	Dec 5 th	Dec 7 th	Dec 11 th	Dec 13 th	Dec 18 th	Dec 20 th	Dec 24 th	AVE.
TOTAL PIGEONS SEEN ON ARRIVAL	18	11	17	17	16	10	20	16

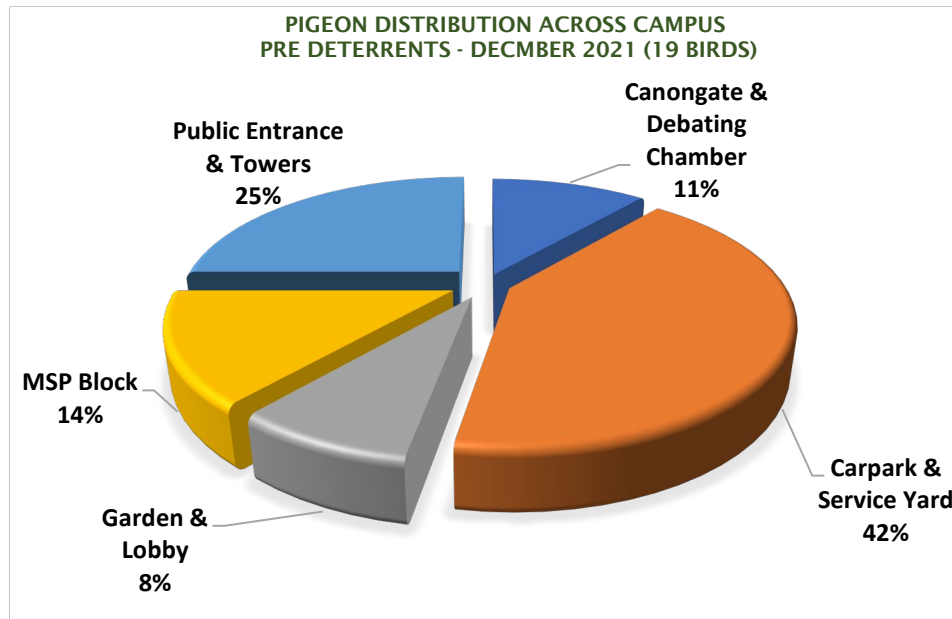
VISIT DATE	Dec 5 TH	Dec 7 th	Dec 11 th	Dec 13 th	Dec 18 th	Dec 20 th	Dec 24 th	AVE.
TOTAL PIGEONS SEEN ON DEPARTURE	5	10	11	6	3	5	4	6

We also removed a relatively fresh pigeon carcass from the MSP Garden in the middle of the month. This was during the height of the recent Avian Flu outbreak. However, after offsite inspections and monitoring of other birds around EH99, we have no reason to believe that this anything other than a natural death.

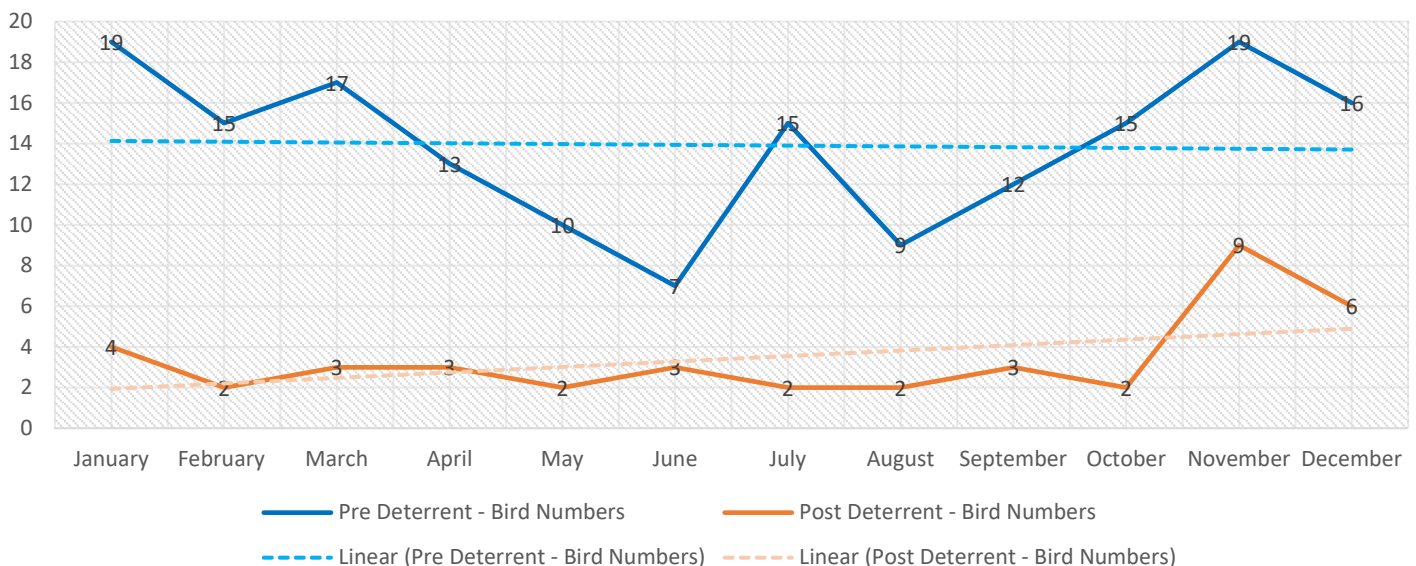
Specific Building Locations

The chart below indicates the peak number of pigeons seen in each area congregated at any one time.

PEAK POINT NUMBERS SEEN ON ARRIVAL	CANONGATE /DEBATING CHAMBER	SERVICE YARD	GARDEN & LOBBY	MSP BLOCK	PUBLIC ENTRANCE & TOWERS
PIGEONS	4	15	3	5	9



Annual Pre & Post deterrent numbers
Numbers up to- Oct '21 submitted by previous supplier



The dark line indicates the pigeon numbers seen on arrival before the disturbance takes place, versus the same month last year, the lighter line.

Other Bird/Wildlife Activity

After some investigation it was noted that the crows we have been encountering have nest sites along the treeline at the East side of Dynamic Earth, as well as some sites within the Palace grounds, overlooking Queens Drive. At this stage they pose no issues to the Parliament campus.

Plan for January 2022:

Following on from the information above we will be concentrating again on the Service Yard to push away any birds displaced by proofing. Additionally, we will also look at techniques to deter birds from the heat extraction areas around the Towers. There are also plans for further proofing of the Service Yard in Jan '22.

Areas of concern:

Car Park/Service Yard and Towers.

Proofing is due to take place in the Service Yard, this will go a long way to reducing numbers in the area.

The Towers will require a little adaptation to current falconry styles. We will look to deploy 2x falconers, flying hawks at the same time in separate areas to evaluate what effects this pincer type approach will have on pigeons taking refuge at height (as they currently do whilst other areas are worked).

January 2022

8 visits were completed in January 2022. Hawks were again the birds selected to work at EH99. Both have settled in well whilst on-site and both birds offer something different to each other with one more likely to land on ledges and flush birds out and one (female) the larger bird dominating the sky.

Days and times of visits were varied including 2x weekend visits and 3x sunrise visits.

The average number of pest birds on campus pre-deterrents was **16**. Our counts show that post deterrent work the average number was **5** (a small downturn on last month).

It was again noted on days where the temperatures stayed around zero, pigeons were extremely reluctant to leave site and instead, flocked together around the heat ventilators high on S/E facing towers. There were also works carried out on the MSP Block throughout the month, so this may deviate the numbers. In addition to this we also netted the area containing raised plant in Service Yard towards the end of Jan '22.

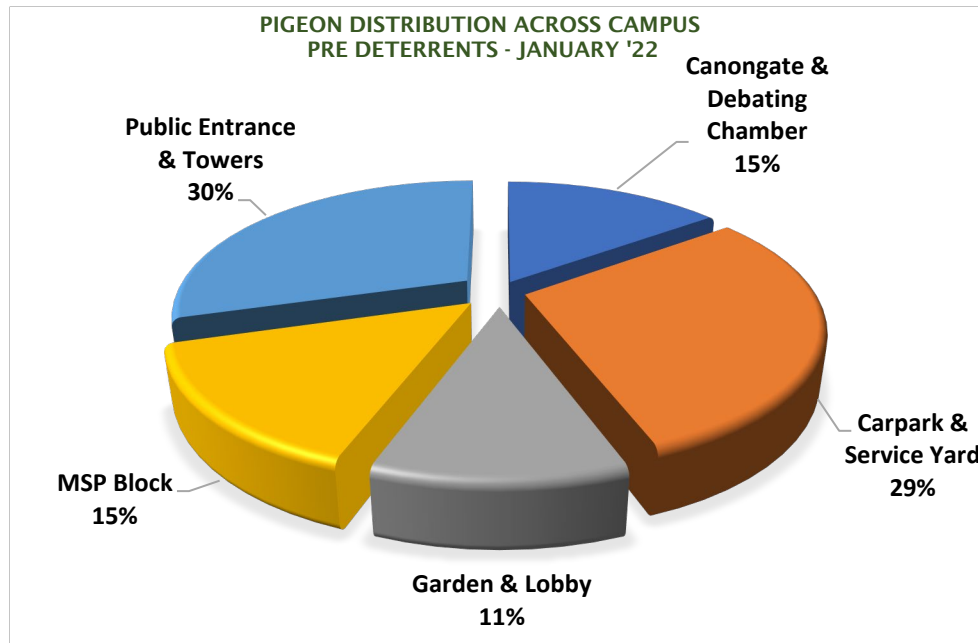
VISIT DATE	Jan 3 rd	Jan 9 th	Jan 13 th	Jan 15 th	Jan 19 th	Jan 24 th	Jan 27 th	JAN 31 ST AVERAGE	
TOTAL PIGEONS SEEN ON ARRIVAL	19	10	21	17	13	16	13	20	16

VISIT DATE	Jan 3 rd	Jan 9 th	Jan 13 th	Jan 15 th	Jan 19 th	Jan 24 th	Jan 27 th	JAN 31 ST AVERAGE	
TOTAL PIGEONS SEEN ON DEPARTURE	5	10	11	6	3	5	4	6	5

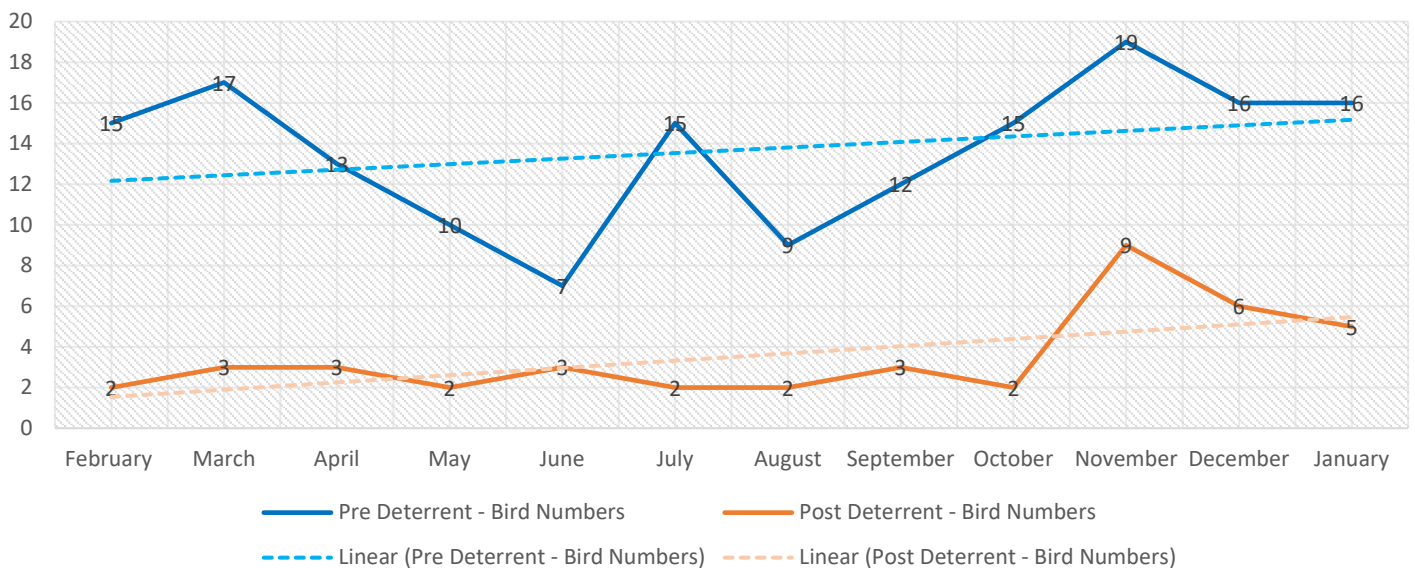
Specific Building Locations

The chart below indicates the peak number of pigeons seen in each area congregated at any one time.

PEAK POINT NUMBERS SEEN ON ARRIVAL	CANONG ATE /DEBATIN G CHAMBE R	SERVI CE YARD	GARD EN & LOBBY	MSP BLOC K	PUBLIC ENTRAN CE & TOWER S
PIGEONS	7	8	3	4	8



Annual Pre & Post deterrent numbers
Numbers up to- Oct '21 submitted by previous supplier



Other Bird/Wildlife Activity

It was noted that gull activity has already begun in the area this year. Avian will happily help and advise at no additional cost, should the gulls become an issue.

Plan for February 2022:

Following on from the proofing of the roost area within the Service Yard, we will aim to monitor and deter the displaced birds.

Areas of concern:

Car Park/Service Yard and Towers.

High Towers on cold days will look to be combatted by flying a Hawk in that area when appropriate (potential roof top falconry and potential deterrents to be discussed).

Area of completed netting Service Yard



February 2022

7 visits were completed in February 2022. Our large female hawk was the main deterrent deployed throughout the month. February seen some prolonged spells of bad weather including two significant storms. This meant visits weren't as varied as we'd like and instead, we had to take opportunities of clear weather when they presented themselves.

The average number of pest birds on campus pre-deterrents was **13**. Our counts show that post deterrent work the average number was **4**, a further downturn in numbers from 2021.

We believe the above numbers show that the netting in the Service Yard has helped permanently displace some resident birds. It has also helped our falconry as the birds found on campus now have much fewer hiding places and are instead leaving the area very quickly after the hawks are introduced. We have also noted that the gulls have

started to pair up in the area, their presence will also drive off exposed pigeons. Avian will of course assist in deterring any gulls should the chose to nest on one of the roofs at EH99.

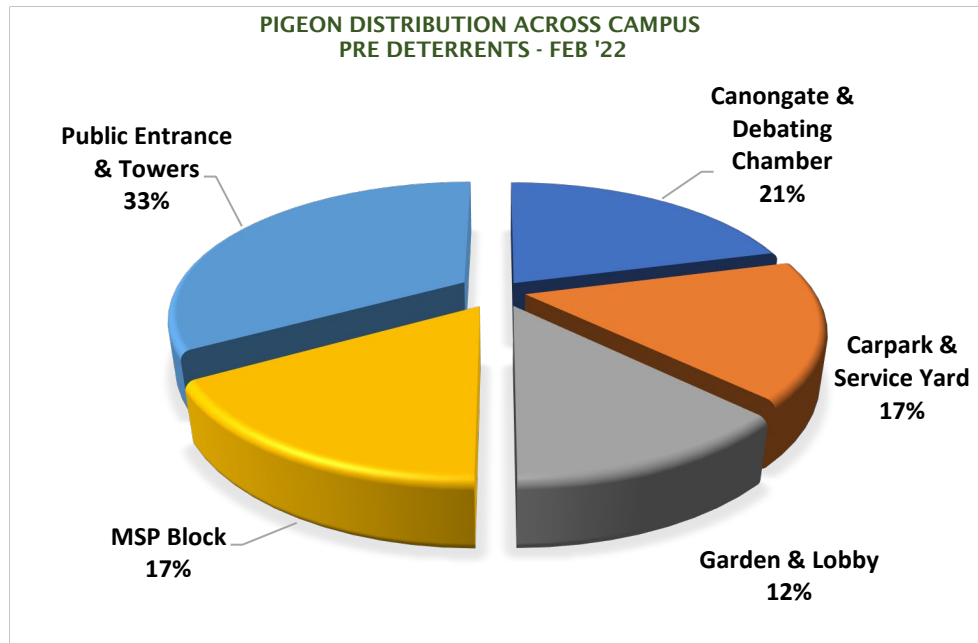
VISIT DATE	Feb 7 th	Feb 12 th	Feb 16 th	Feb 19 th	Feb 21 st	Feb 26 th	Feb 28 th	AVERAGE
TOTAL PIGEONS SEEN ON ARRIVAL	15	14	14	15	11	8	16	13

VISIT DATE	Feb 7 th	Feb 12 th	Feb 16 th	Feb 19 th	Feb 21 st	Feb 26 th	Feb 28 th	AVERAGE
TOTAL PIGEONS SEEN ON DEPARTURE	5	10	11	6	3	5	4	6

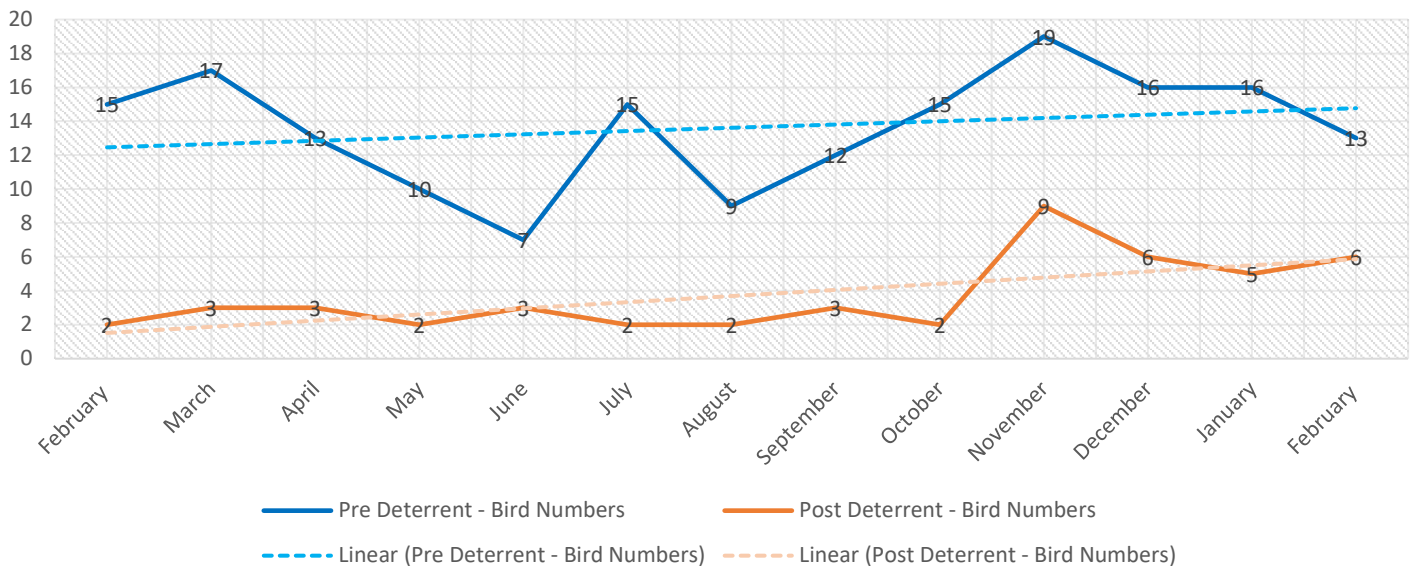
Specific Building Locations

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PEAK POINT NUMBERS SEEN ON ARRIVAL	CANONG ATE /DEBATIN G CHAMBER	SERVI CE YARD	GARD EN & LOBBY	MSP BLOC K	PUBLIC ENTRAN CE & TOWER S
PIGEONS	5	4	3	4	5



Annual Pre & Post deterrent numbers
Numbers up to- Oct '21 submitted by previous supplier



The dark line indicates the pigeon numbers seen on arrival before the disturbance takes place, versus the same month last year, the lighter line.

Other Bird/Wildlife Activity

We have noted recently that gull activity has spiked dramatically, with signs of pairing up happening already. These birds may be vocal for the next few months.

Plan for March 2022:

Following on from the proofing of the roost area within the Service Yard, we will aim to monitor and deter the displaced birds. We are also looking to introduce another of our falconers to site this month.

Areas of concern:

The entire campus will be watched to make sure displaced birds from the Service Yard do not find a new roost at EH99.

Recent Netting at Cyclists Entrance



March 2022

7 falconry visits and 4 days proofing which included an element of deterrent work were completed in March 2022. Our large female hawk was again the main deterrent deployed throughout the month.

The average number of pest birds on campus pre-deterrents was **11**. Our counts show that post deterrent work the average number was **3**, a further downturn in numbers from previous months.

We believe the above numbers show that the netting in the Service Yard and upgrades to the proofing on the MSP Block has helped permanently displace even more resident birds. We have also noted that a further significant upturn in gull numbers in the area. Avian will of course assist in deterring any gulls should they chose to nest on one of the roofs at EH99 and a 2022 NatureScot Licence has already been approved.

VISIT DATE	Mar 8 th	Mar 11 th	Mar 14 th	Mar 21 st	Mar 23 rd	Mar 30 th	AVERAGE
TOTAL PIGEONS	11	10	12	12	9	16	11

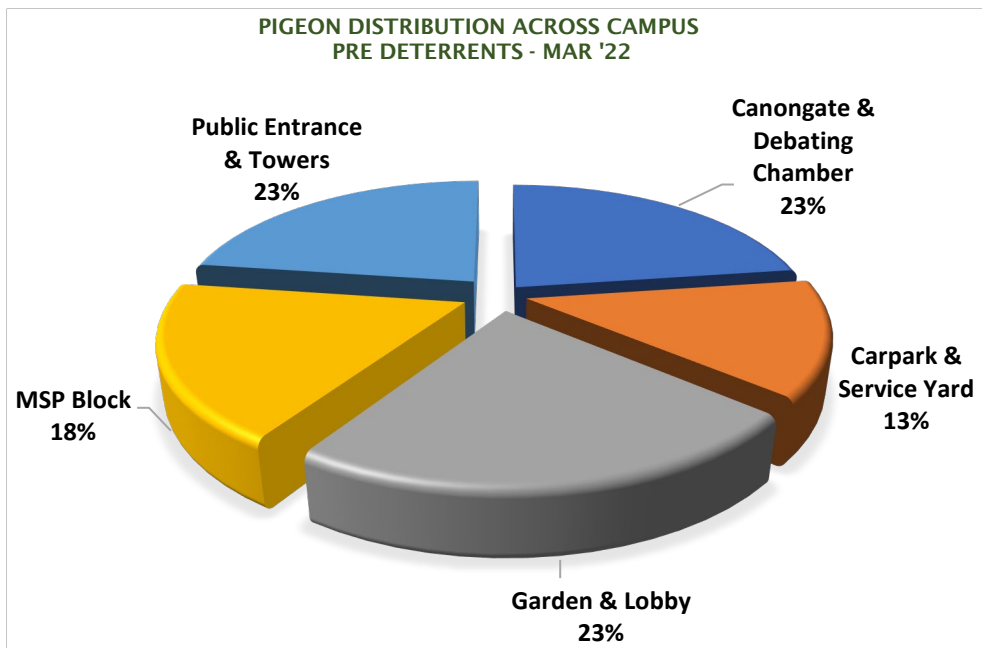
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ARRIVAL

VISIT DATE	Mar 8 th	Mar 11 th	Mar 14 th	Mar 21 st	Mar 23 rd	Mar 30 th	AVERAGE
TOTAL PIGEONS SEEN ON DEPARTURE	3	2	6	3	4	4	3

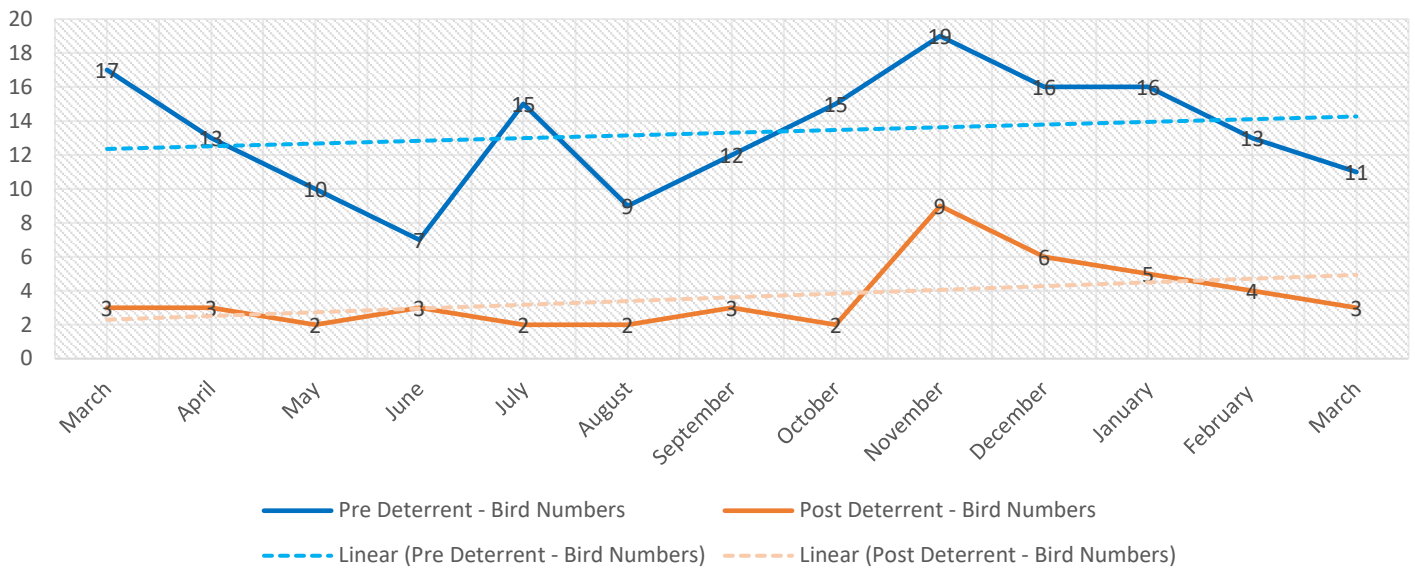
Specific Building Locations

The chart below indicates the peak number of pigeons seen in each area congregated at any one time.

PEAK POINT NUMBERS SEEN ON ARRIVAL	CANONGATE /DEBATING CHAMBER	SERVICE YARD	GARDEN & LOBBY	MSP BLOCK	PUBLIC ENTRANCE & TOWERS
PIGEONS	5	3	5	4	5



Annual Pre & Post deterrent numbers
Numbers up to- Oct '21 submitted by previous supplier



The dark line indicates the pigeon numbers seen on arrival before the disturbance takes place, versus the same month last year, the lighter line.

Other Bird/Wildlife Activity

All bird species around campus are pairing up, we have not noted any protected species or species nesting that may cause harm to the buildings on campus.

Plan for April 2022:

Following on from the proofing upgrades on the MSP Block, we will aim to monitor and deter the displaced birds.

Areas of concern:

The entire campus will be watched to make sure displaced birds from the MSP do not find a new roost at EH99. We will also monitor any gulls attempting to nest around campus.

MSP Proofing Upgrades

Examples of recent proofing to the MSP Block



April 2022

9 falconry visits were completed in April 2022. Our female hawks were in attendance along with 2 operatives.

The average number of pest birds on campus pre-deterrents was **11**. Our counts show that post deterrent work the average number was **4**, almost identical to last month (post proofing).

This is a great indicator that the birds displaced by proofing of the MSP East elevation and Service Yard have moved off campus.

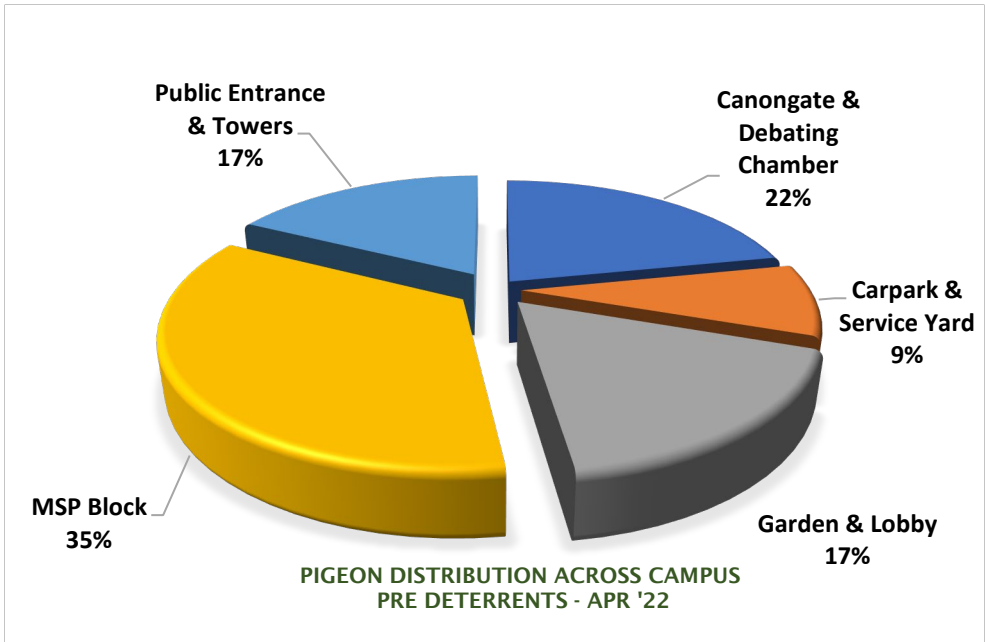
VISIT DATE	APR 2 nd	APR 6	APR 8	APR 9	APR 15	APR 17	APR 25	APR 27	29
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TOTAL PIGEONS SEEN ON ARRIVAL	ON	13	11	11	13	11	10	13	11	12
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VISIT DATE	APR 2 ND	APR 6	APR 8	APR 9	APR 15	APR 17	APR 25	APR 27	APR 29	
TOTAL PIGEONS SEEN ON DEPARTURE	ON	7	6	2	4	5	2	4	5	3

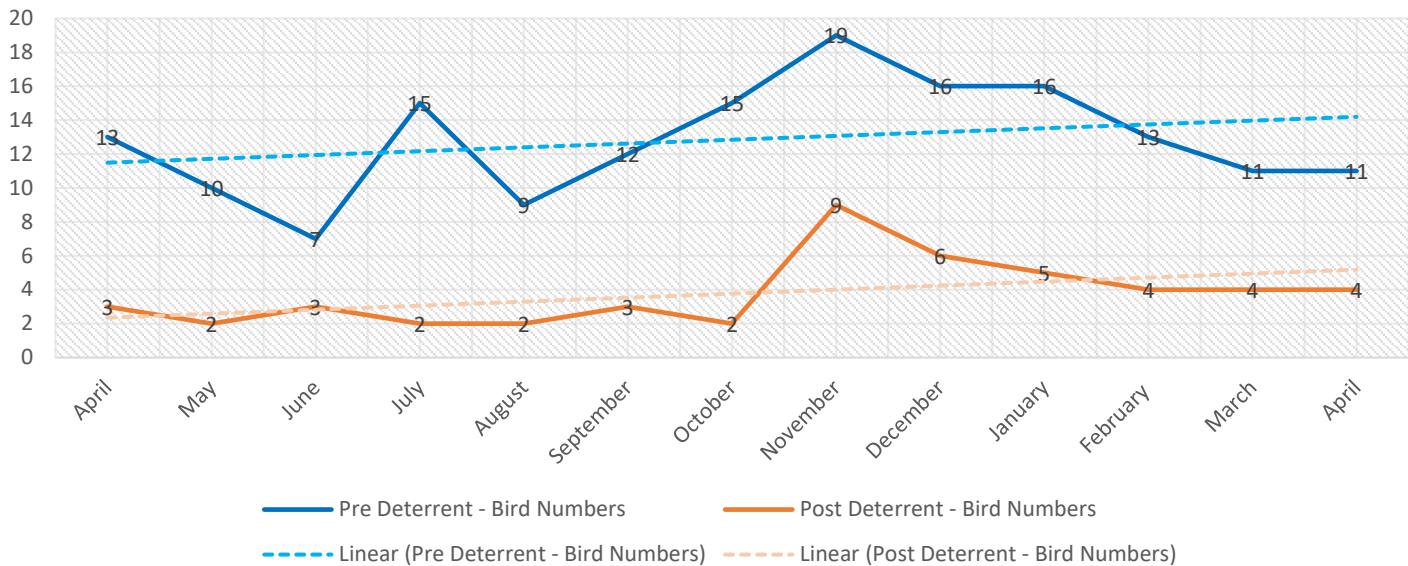
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PEAK POINT NUMBERS SEEN ON ARRIVAL	CANONGATE /DEBATING CHAMBER	SERVICE YARD	GARDEN & LOBBY	MSP BLOC K	PUBLIC ENTRANCE & TOWERS
PIGEONS	5	2	4	8	4

Annual Pre & Post deterrent numbers
Numbers up to- Oct '21 submitted by previous supplier



The dark line indicates the pigeon numbers seen on arrival before the disturbance takes place, versus the same month last year, the lighter line.

Other Bird/Wildlife Activity

With the assistance of TRAC, the MSP Block roof was inspected for suspected nesting gulls. The roof remained clear through April '22.

Plan for May 2022:

Approval has been given for further proofing, this will help deter roosting birds from the front of the building, once this is completed we will look to chase off any displaced birds.

Areas of concern:

The entire campus will be watched to make sure displaced birds from the MSP do not find a new roost at EH99. We will also monitor any gulls attempting to nest around campus.

May 2022

8 falconry visits were completed in May 2022 as well as proofing on the elevations around the press tower. Our female hawk was in attendance along with a new male harris hawk.

The average number of pest birds on campus pre-deterrents remained at **11**. Our counts show that post deterrent work the average number dropped by 1 to **3**.

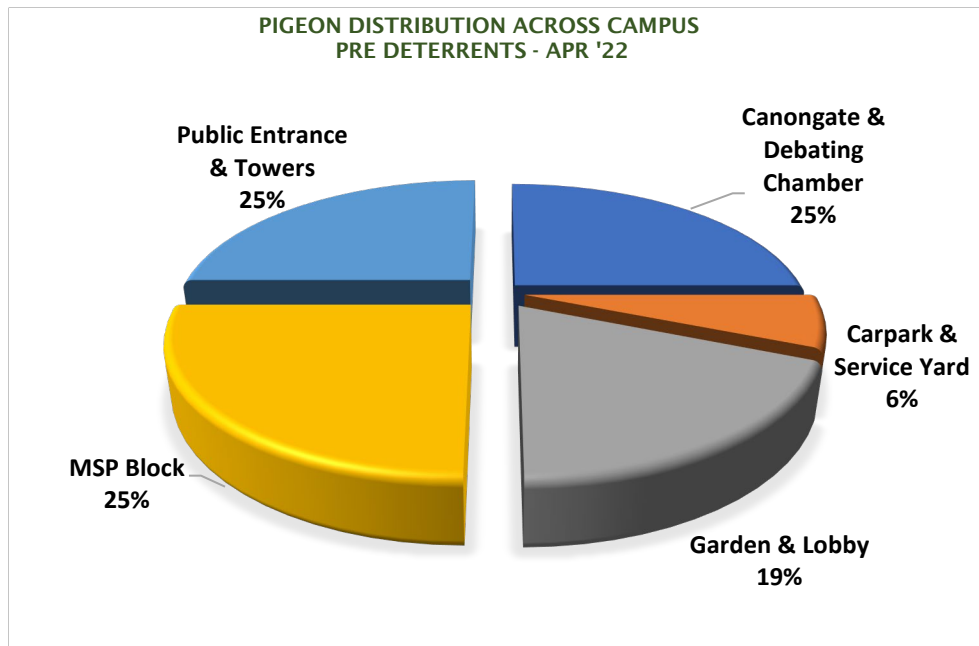
VISIT DATE	MAY 4 TH	MAY 6 TH	MAY 13 TH	MAY 14 TH	MAY 16 TH	MAY 21 ST	MAY 25 TH	MAY 27 TH
TOTAL PIGEONS SEEN ON ARRIVAL	12	11	11	11	8	11	12	13
AVERAGE =	11							

VISIT DATE	MAY 4 TH	MAY 6 TH	MAY 13 TH	MAY 14 TH	MAY 16 TH	MAY 21 ST	MAY 25 TH	MAY 27 TH
TOTAL PIGEONS SEEN ON DEPARTURE	3	2	4	3	2	2	2	4
AVERAGE =	3							

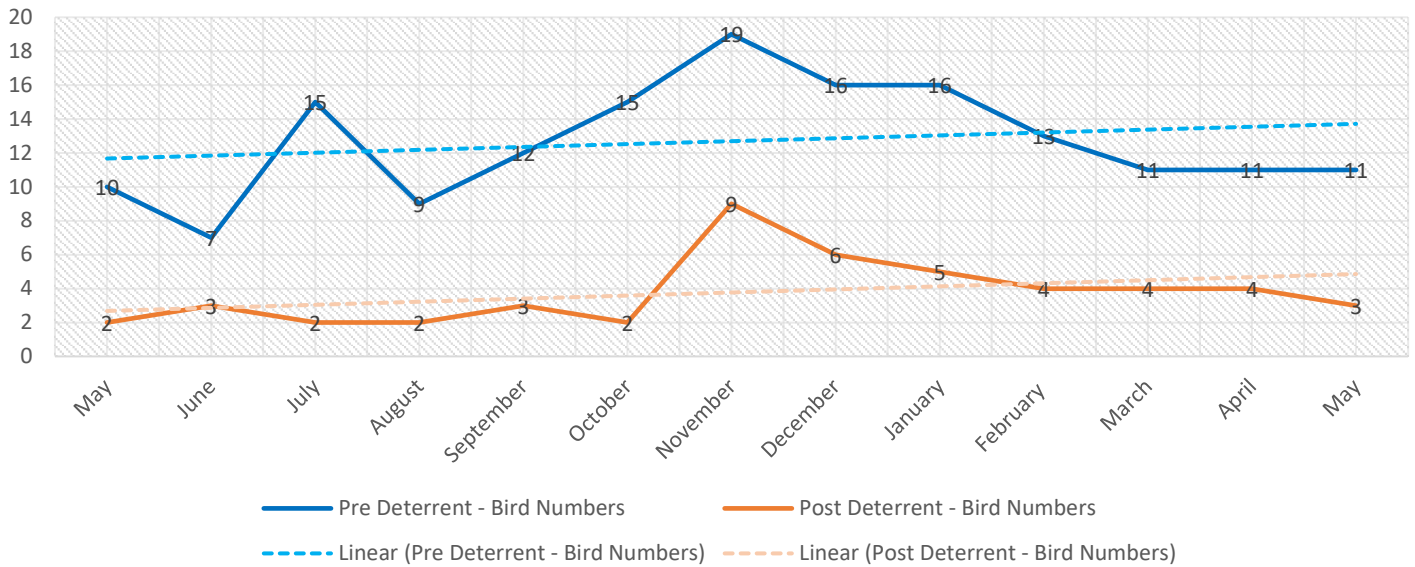
Specific Building Locations

The chart below indicates the peak number of pigeons seen in each area congregated at any one time.

PEAK POINT NUMBERS SEEN ON ARRIVAL	CANONGATE /DEBATING CHAMBERS	SERVICE YARD	GARDEN & LOBBY	MSP BLOCK	PUBLIC ENTRANCE & TOWERS
PIGEONS	4	1	3	4	4



Annual Pre & Post deterrent numbers
Numbers up to- Oct '21 submitted by previous supplier



The dark line indicates the pigeon numbers seen on arrival before the disturbance takes place, versus the same month last year, the lighter line.

Other Bird/Wildlife Activity

High gull activity has been noted around campus. Avian will keep an eye on the higher roof tops of EH99 such as QBH.

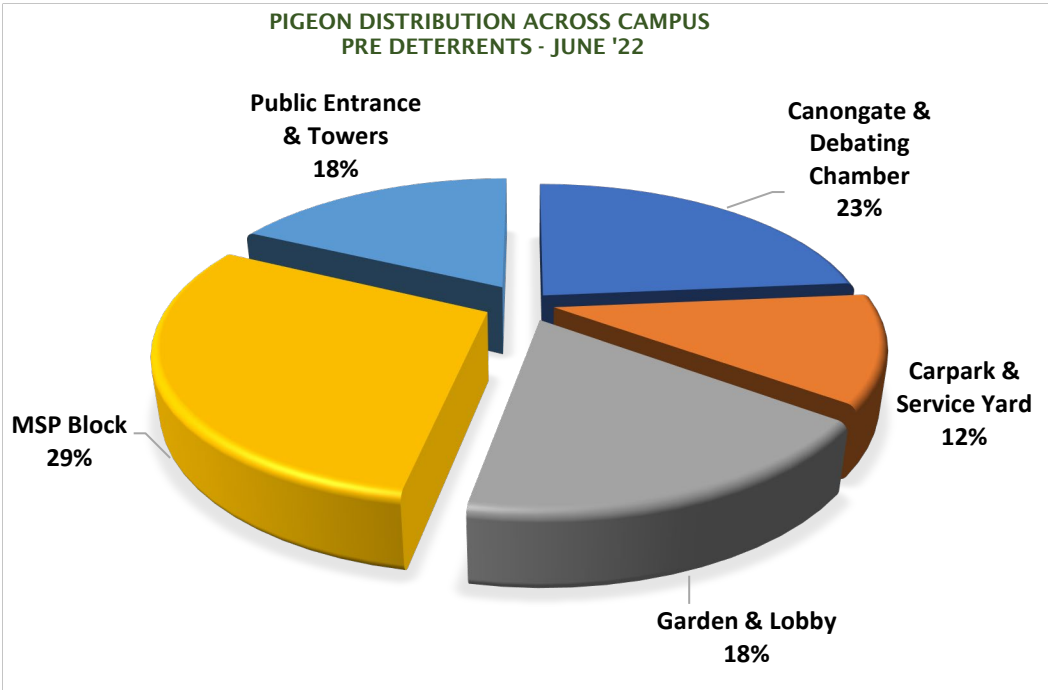
Plan for June 2022:

We plan to introduce another young male harris hawk. We will also monitor gull behaviour in the area.

Specific Building Locations

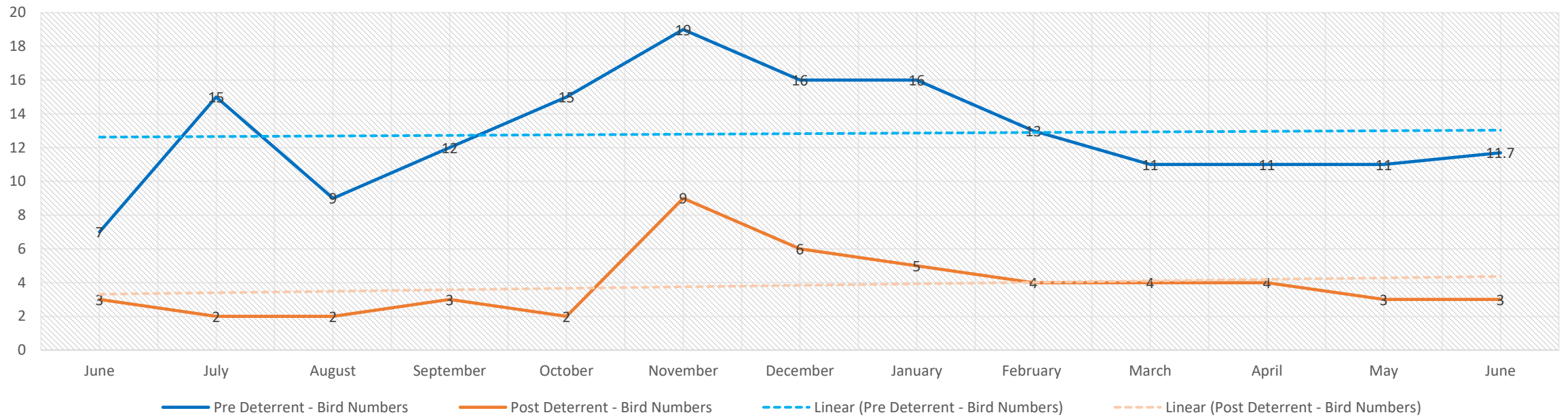
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PEAK POINT NUMBERS SEEN ON ARRIVAL	CANONGATE /DEBATING CHAMBER	SERVICE YARD	GARDEN & LOBBY	MSP BLOCK	PUBLIC ENTRANCE & TOWERS
PIGEONS	4	2	3	5	3



KEY SUB-CONTRACTOR PERFORMANCE

Annual Pre & Post deterrent numbers
Numbers up to- Oct '21 submitted by previous supplier



| KEY SUB-CONTRACTOR PERFORMANCE

Other Bird/Wildlife Activity

High gull activity has been noted around campus. Avian will keep an eye on the higher roof tops of EH99.

TRAC have installed netting to the flat area of QBH will is having a great impact in denying roosting/nesting areas which are usually out of view.

The pied wagtail nest built in scaffolding in MSP Garden has been monitored and removed. In the middle of the month the eggs within the nest disappeared, they were almost certainly predated on by crows or magpies which can be seen in the treeline outside Dynamic Earth. Avian monitored the area after and whilst the adult wagtails can be seen in the garden, at no point did they return to this nest site. They have likely set up another nest nearby.

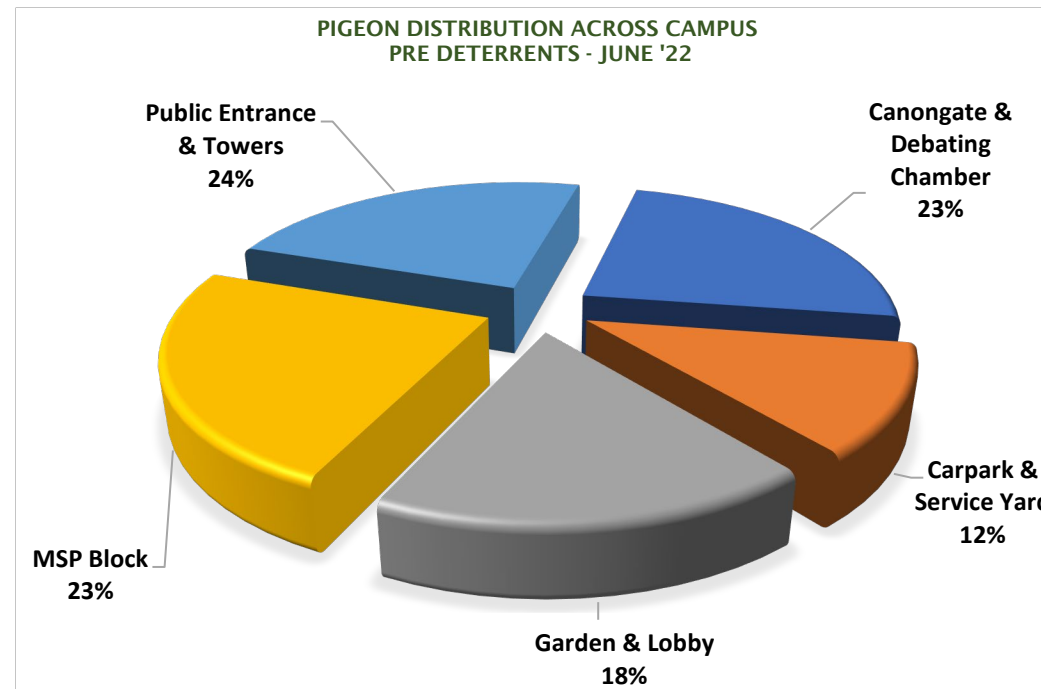
Another point of interest is that we now have peregrine falcons above site on occasion. It looks to be at least one adult and two chicks from this season. They can be seen using thermals along the crag line of Arthurs Seat and have also been observed hunting and passing food. They should have no impact on what Avian are doing at EH99 other than further help deter pest birds from the area. This is likely to continue throughout July

KEY SUB-CONTRACTOR PERFORMANCE

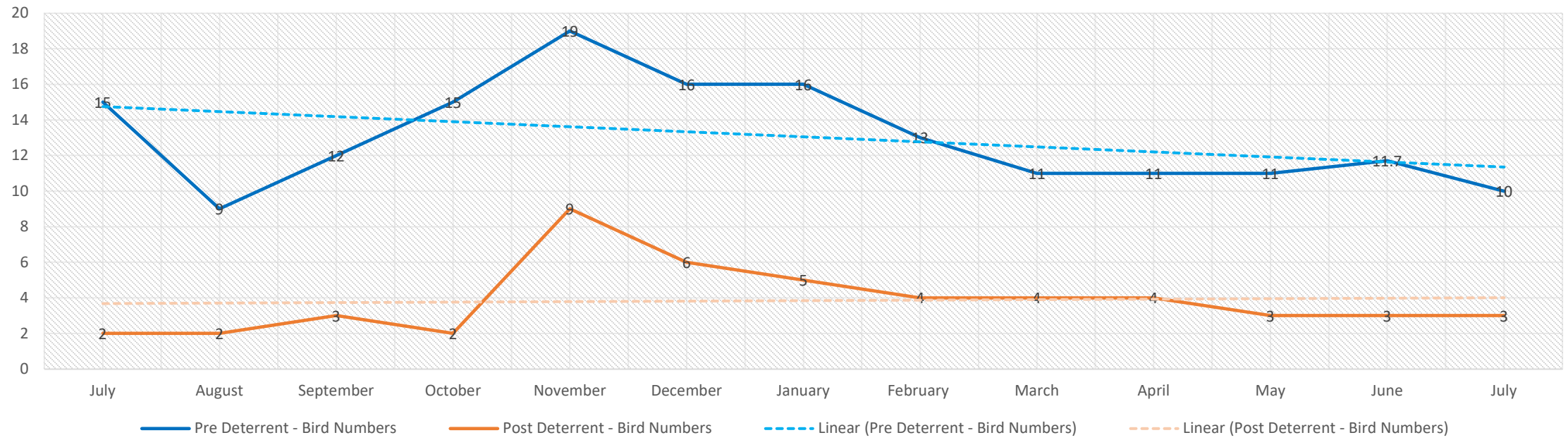
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PEAK POINT NUMBERS SEEN ON ARRIVAL	CANONGATE /DEBATING CHAMBER	SERVICE YARD	GARDEN & LOBBY	MSP BLOCK	PUBLIC ENTRANCE & TOWERS
PIGEONS	4	2	3	4	4



Annual Pre & Post deterrent numbers
Numbers up to- Oct '21 submitted by previous supplier



| KEY SUB-CONTRACTOR PERFORMANCE

Other Bird/Wildlife Activity

Other Bird/Wildlife Activity

Gull activity starting to drop off, fledglings can be seen at low levels all over the city. One gull chick found itself trapped on campus, this bird was collected by Avian and set free close to Arthurs Seat.

Wild peregrines from the Craggs can still be seen above site most days.

Community Benefit

APS is in dialogue with The Yard about an educational visit later this month.

Avian Pest Solutions Ltd

8 falconry visits were completed in August 2022.

The average number of pest birds on campus pre-deterrents has remained close to 10. Our counts show that post deterrent work the average number jumped from 3 to 3.5

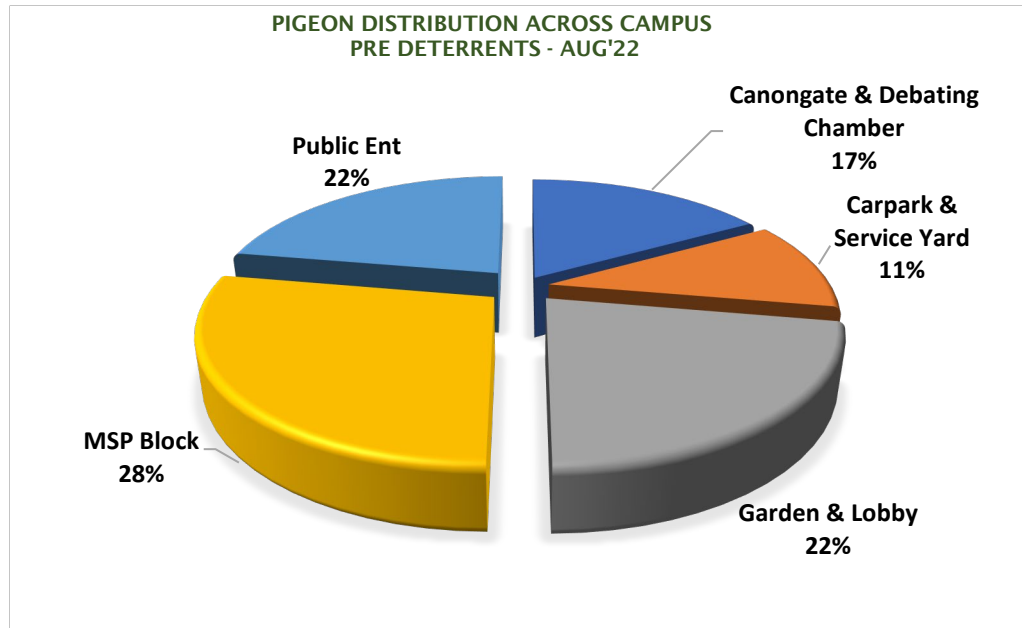
VISIT DATE	AUG 2ND	AUG 6 TH	AUG 9 TH	AUG 12 TH	AUG 16 TH	AUG 19 TH	AUG 24 TH	AUG 27 TH	AVE
TOTAL PIGEONS SEEN ON ARRIVAL	13	12	10	9	6	11	7	11	9.8
AVERAGE = 9.8									

VISIT DATE	AUG 2ND	AUG 6 TH	AUG 9 TH	AUG 12 TH	AUG 16 TH	AUG 19 TH	AUG 24 TH	AUG 27 TH	AVE
TOTAL PIGEONS SEEN ON DEPARTURE	2	2	5	4	3	4	3	5	3.5
AVERAGE = 3.5									

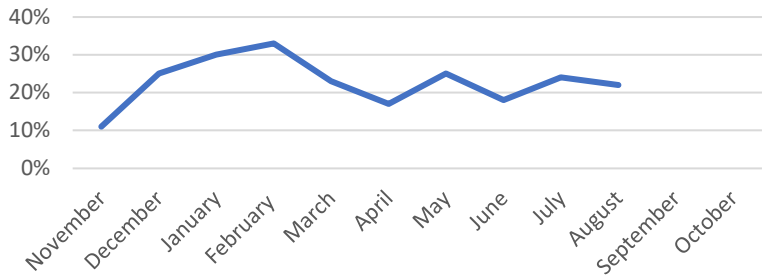
Specific Building Locations

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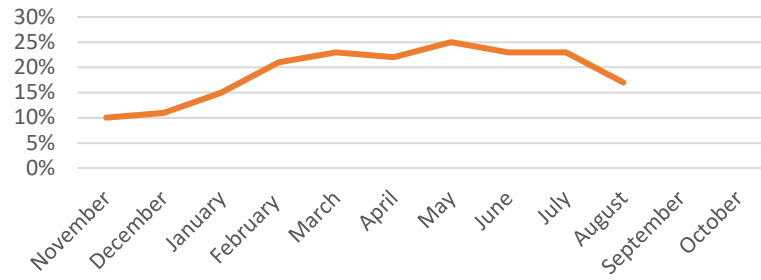
PEAK POINT NUMBERS SEEN ON ARRIVAL	CANONGATE /DEBATING CHAMBER	SERVICE YARD	GARDEN & LOBBY	MSP BLOCK	PUBLIC ENTRANCE & TOWERS
PIGEONS	3	2	4	5	4



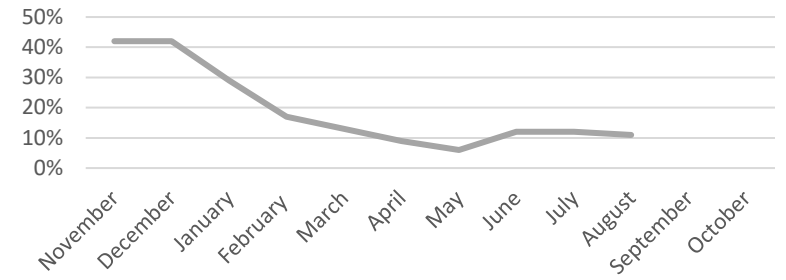
Public Entrance & Towers



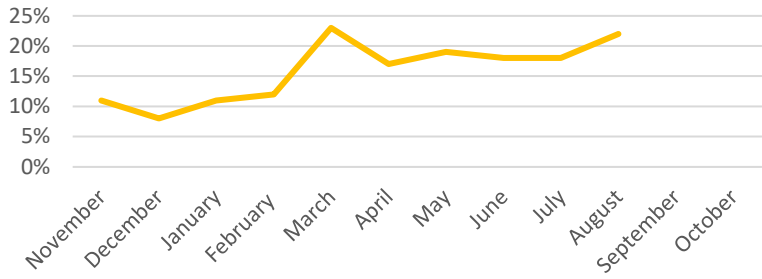
Canongate/Debating Chamber



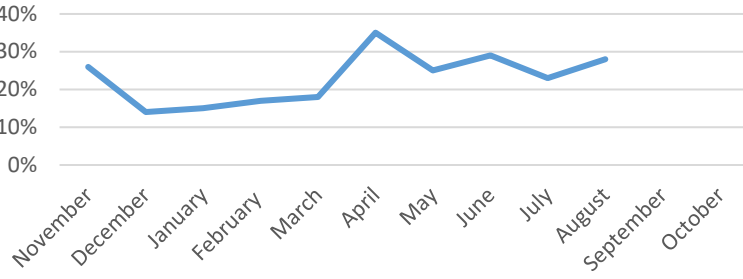
Service Yard



Garden Lobby

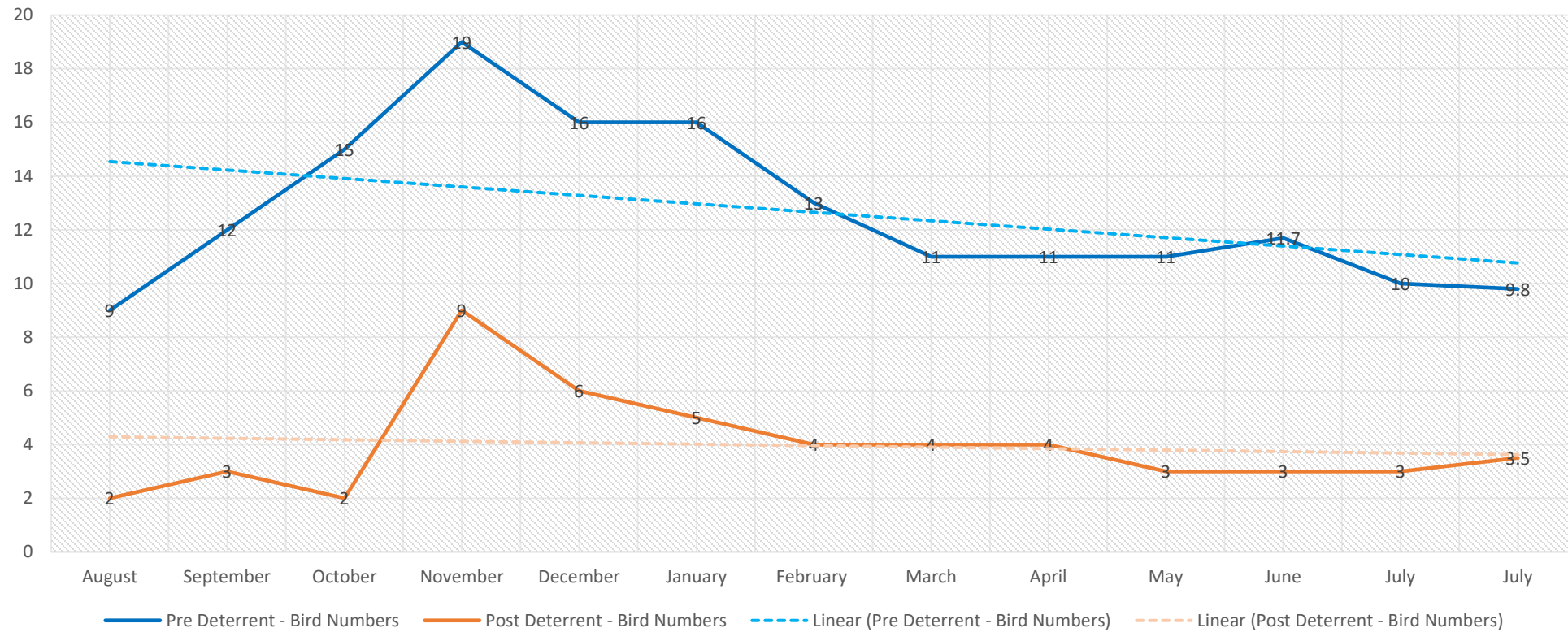


MSP Block



KEY SUB-CONTRACTOR PERFORMANCE

Annual Pre & Post deterrent numbers
Numbers up to- Oct '21 submitted by previous supplier



Other Bird/Wildlife Activity

Other Bird/Wildlife Activity

Gull activity is still high in the area, this activity should be lower at this stage of the year but may be related to the abundance of feeding opportunities in the city last month.

Avian Pest Solutions Ltd

5 falconry visits were completed in September 2022, this was due to EH99 being closed to contractors during the National Period of Mourning.

The average number of pest birds on campus pre-deterrents has dropped **8.8**. Our counts show that post deterrent work the average number dropped slightly to **2.4**.

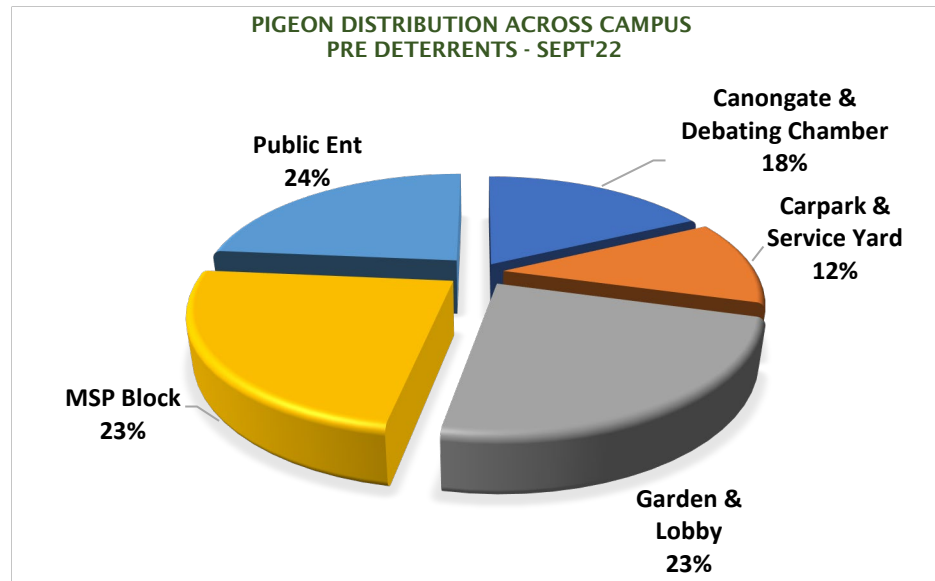
	SEPT 1 ST	SEPT 5 TH	SEPT 8 TH	SEPT 23 RD	SEPT 26 TH	AVE
TOTAL PIGEONS SEEN ON ARRIVAL	6	13	4	11	10	8.8
AVERAGE = 8.8						

	SEPT 1 ST	SEPT 5 TH	SEPT 8 TH	SEPT 23 RD	SEPT 26 TH	AVE
TOTAL PIGEONS SEEN ON DEPARTURE	0	5	1	4	2	2.4
AVERAGE = 2.4						

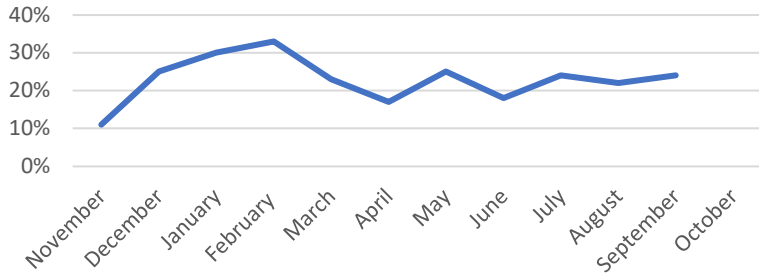
Specific Building Locations

The chart below indicates the peak number of pigeons seen in each area congregated at any one time.

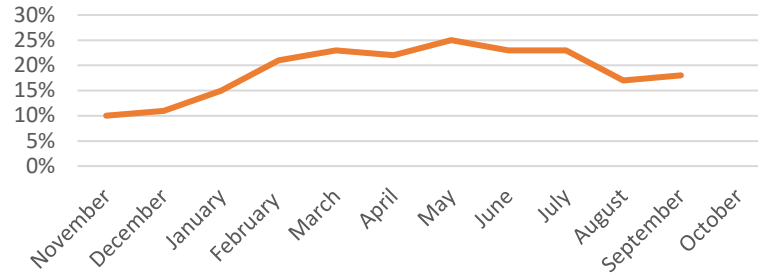
	CANONGATE /DEBATING CHAMBER	SERVICE YARD	GARDEN & LOBBY	MSP BLOCK	PUBLIC ENTRANCE & TOWERS
PIGEONS	3	2	4	4	6



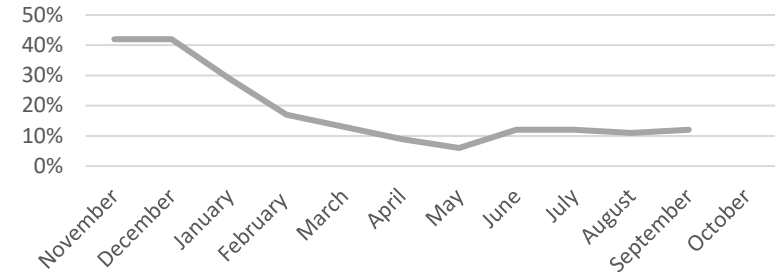
Public Entrance & Towers



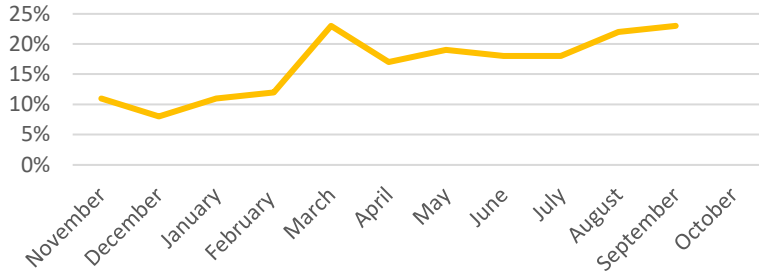
Canongate/Debating Chamber



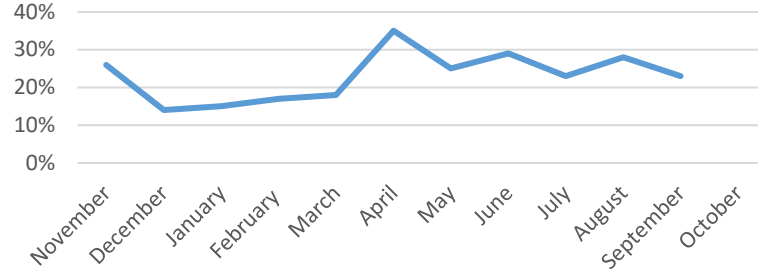
Service Yard



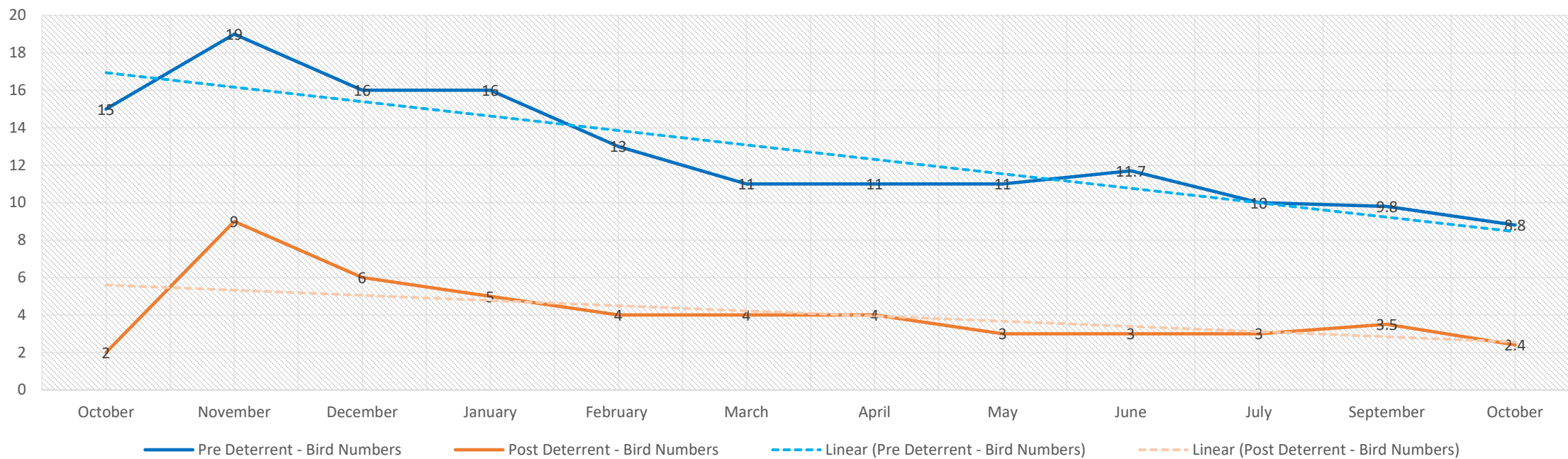
Garden Lobby



MSP Block



Annual Pre & Post deterrent numbers
Numbers up to- Oct '21 submitted by previous supplier



Other Bird/Wildlife Activity

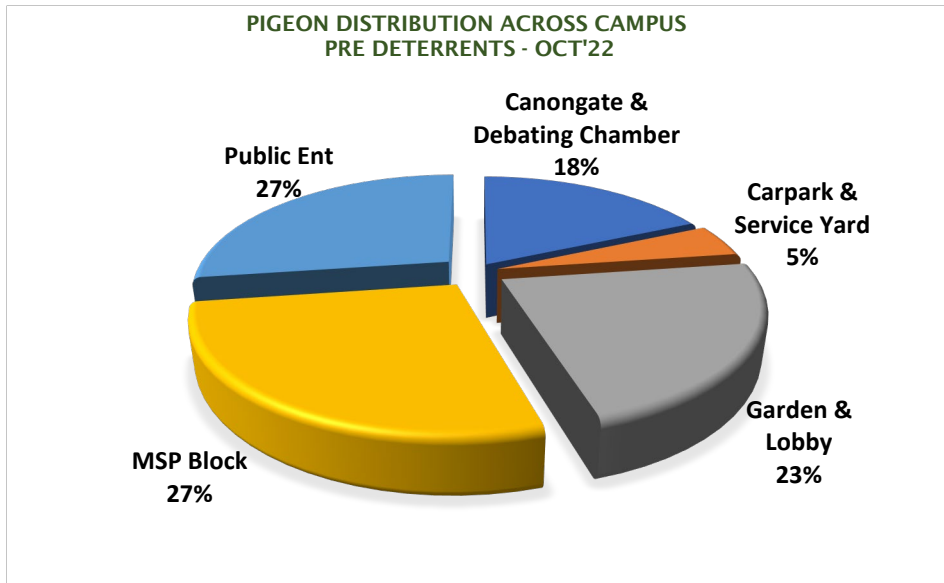
Other Bird/Wildlife Activity

Gull activity in the area has all but stopped, corvids noted to be grouping together regularly around Dynamic Earth. Pigeons have also been noted to be flocking together recently around the Towers, this is most likely due to the gulls and young raptors on Arthurs Seat moving on.

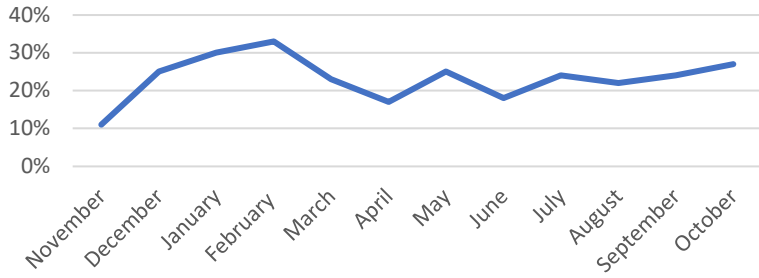
Specific Building Locations

The chart below indicates the peak number of pigeons seen in each area congregated at any one time.

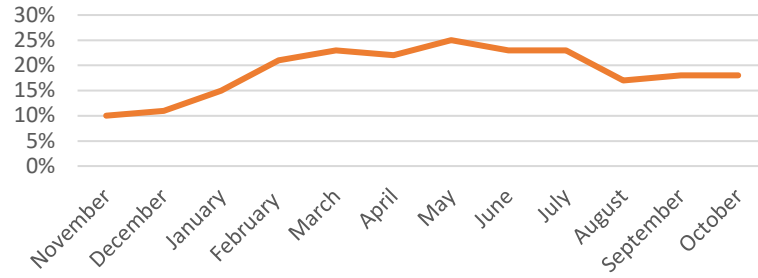
	CANONGATE /DEBATING CHAMBER	SERVICE YARD	GARDEN & LOBBY	MSP BLOCK	PUBLIC ENTRANCE & TOWERS
PIGEONS	4	1	5	6	7



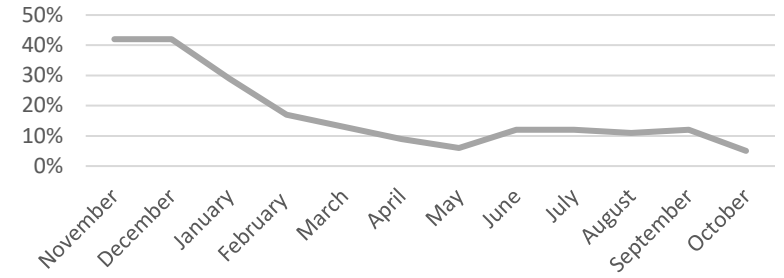
Public Entrance & Towers



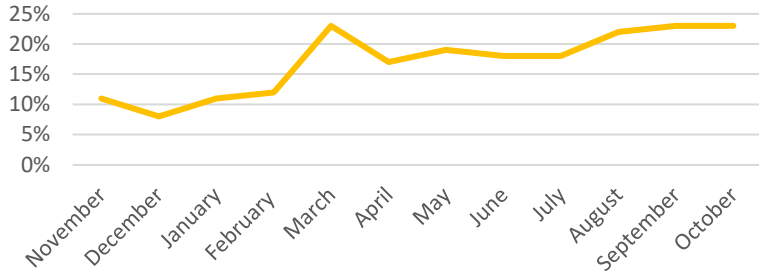
Canongate/Debating Chamber



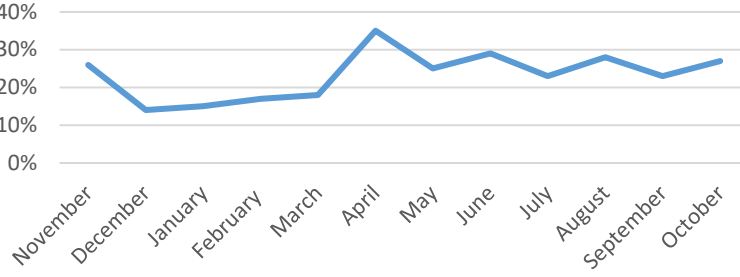
Service Yard

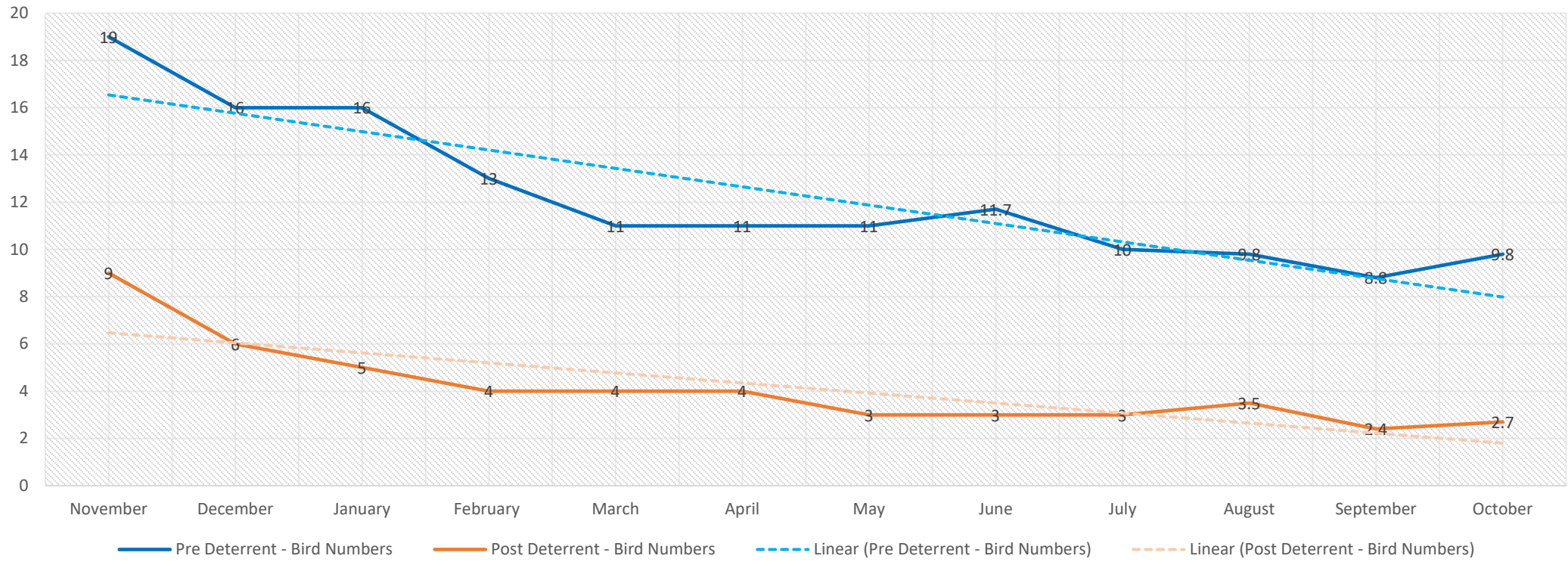


Garden Lobby



MSP Block





Plan for November

Recently pigeons have been noted flocking together in groups of 7 or so in a couple of areas of campus, mostly the MSP Block recess and the top of the Towers. There is likely a few reasons for this, such as heat vents atop the towers, the downturn in breeding/nesting and the scarcity of easy feeding opportunities, APS will work to disrupt this behaviour.