

# Visitor Perceptions of Columbia's Dog Parks

## Dog Park Survey Technical Report



Presented to

**Columbia Parks and Recreation Department**

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## **Pictures in this Report:**

All pictures used in this report were obtained from Columbia Parks and Recreation, Google images (labeled as free to use, share or modify), and taken by the Lily Bennett (author).

## **Executive Summary**

As trends in dog ownership have increased, researchers have turned more attention to understanding the benefits of dog parks and the social and structural dynamics of planning for dog-friendly spaces. Previous research has demonstrated that dog parks provide a number of potential benefits, such as fostering social interaction between community members, space for physical activity, and opportunities to better socialize dogs. A number of studies assessing visitor perceptions of dog parks have been conducted in various areas nationwide, but there is a lack of local studies examining public perceptions of Columbia's dog parks to help guide future planning and management decisions. Therefore, the School of Natural Resources at the University of Missouri conducted an on-site survey of dog park visitors to find out their perceptions in terms of usage, motivations, desired features, constraints, and willingness to pay.

This study included 180 respondents (84% response rate), who were contacted on-site at the three different dog parks in Columbia, Missouri (Twin Lakes, Garth and Indian Hills). Nearly 30% were between 18 and 24, with over 50% under the age of 30. Most have an annual income below \$50,000, have no children, and live within Columbia, Missouri.

Almost 90% of respondents traveled to the dog park by car; 40% traveled less than 2 miles while over a third traveled 3 or more miles. Over half of respondents spent an hour or more at the dog park, with nearly 10% spending 2 or more hours. The most popular seasons for dog park use are spring and summer, with the least use in winter. The most popular times to visit are later afternoon or evening.

Overall, respondents expressed a strong sense of attachment and meaning to the dog parks. Most people report visiting more than one park. Twin Lakes had the longest average visitation history (2.5 years). Although Indian Hills had the least visitors encountered, those who do visit accounted for the most frequent visitation.

The greatest motivations for visiting the dog park were dog-centered: importance of having dog off leash, exercising and improving dog health, and letting dogs do things they normally wouldn't get to at home. Visitors reported overall low levels of constraint to visitation, the key constraints being a lack of time and worry about aggression from others' dogs.

When asked about important attributes of dog parks, shade, maintenance, adequate trash cans, secure fencing, seating, available waste bags, and trees/landscaping were rated highly by over 90% of respondents.

Dog park entrance fees received mixed reception from respondents, which could be expected, since Columbia does not have a history of charging for park use. More than a quarter reported being unwilling to pay. The largest support (44%) was for paying less than \$25 on an annual basis, but indicated this willingness depended on desired improvements such as lighting for extended hours, provision of more seating, improvements to terrain and landscaping, and restroom facilities.



## Introduction

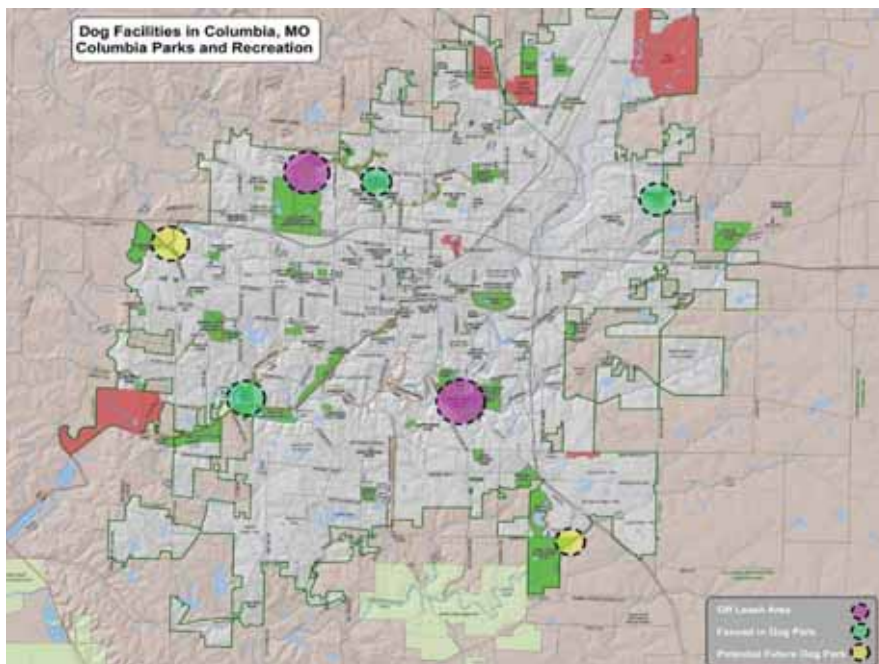
Dog park usage is on the rise (Lee et al., 2009). Trends in increased urbanization and population growth, increased levels of dog ownership and related expenditures, a decrease in home ownership, and the prevalence of leash laws since the 1980s are all factors driving the demand for leash-free areas (Matisoff & Noonan, 2012; Walls, 2009; Urbanik & Morgan, 2013). Dog parks have begun to receive increased interest from park and recreation professionals as they work to design and maintain quality parks to serve the rising demand (Dolesh, 2018; Gómez & Usher, 2017; Spencer, 2018; Stecchi, 2011).

While dog parks are important for the exercise and socialization of dogs, studies have also demonstrated a number of personal health and wellness benefits gained by owners, such as more exercise, motivation, improved mental health, and social interactions (Andreassen et al., 2013; Brown & Rhodes, 2006; Cline, 2010; Cutt et al., 2007; Evenson et al., 2016; Westgarth et al., 2017). Indeed, some of the

benefits extend to the broader community through fostering relationships and sense of community (Graham & Glover, 2014; Gómez et al., 2017; Toohey & Rock, 2011; Middle, 2019; Wood et al., 2005).

Although research shows that the inclusion of a dog park in a community is seen as mostly beneficial, studies also demonstrate a number of constraints experienced by dog parks and their users, such as issues with maintenance, lack of compliance with regulations, lack of funding, as well as concerns with sanitation, aggression, crowding, and access (Gómez, 2013; Krohe, 2005; Lee et al., 2009; Middle, 2019; Rahim et al., 2017; Shyan et al., 2003). Since studies tend to look at a few dog parks in a specific area, research often acknowledges a lack of generalizability for results due to variances in geographic location, demographics, and social climate (Lee et al., 2009; Gómez & Usher, 2017; Weston et al., 2013).

There are currently three fenced in dog parks in Columbia, Missouri, all of which are managed by Columbia Parks and Recreation. There is no membership requirement, and access to all parks is free. While the parks are well-used, there is little to no existing data on usage, perceptions, and satisfaction. There is also interest in understanding dog park users’ willingness to pay for entrance to one or more dog parks, or a specialty park. Overall, this study aims to understand the perceptions and needs of dog park users in Columbia, Missouri.



## Methodology

This project focused on three fenced dog parks in Columbia, Missouri: Indian Hills (2.8 acres), Garth (3.2 acres), and Twin Lakes (10.1 acres). Columbia also has two off-leash areas (Grindstone Nature Area and Bear Creek Nature Area), but they were not included in this study given they are not fenced in areas and are open to other uses as well. Data was collected through an on-site survey from May-August 2018. The self-administered survey was primarily collected on tablets, using the Qualtrics survey platform, but a paper version and an email link (sent later in the day after the park visit) were made available.

Systematic sampling occurred in 2-3 hour time blocks stratified by day of the week (weekdays and weekends) and time of day (between the hours of 6 am and 8 pm). Each user (18+) was approached and asked if they would be interested in taking the survey; during busier times, every third user was approached. Re-encounters with prior visitors were recorded alongside new surveys. Data collection was originally scheduled for 100 hours, but extra collection times were added to compensate for high heat indexes and inclement weather during some data collection periods, resulting in 137 total hours.

The survey contained 26 questions. A section about usage and visitation utilized multiple choice and open-ended responses. Topics such as motivations and willingness to pay were addressed on a five-point Likert scale that measured the level of importance visitors place on particular aspects (1=Very Unimportant, 3=Neither, 5=Very Important).

Questions about constraints and willingness to pay were addressed on similar five-point scales (see Appendix A for a full sample of questions

and scales). Information about visitor demographics was also included in the survey, as well as an open-ended section at the end for comments.

This report is organized into four sections: 1) respondents’ profile, 2) usage and today’s visit, 3) Columbia Parks and Recreation dog parks, and 4) fees in dog parks and 5) comments from dog park users. Full data tables corresponding with the figures are available in Appendix B.

While this report focuses primarily on findings from the overall sample of dog park users, park-specific trends are also noted. Additional details on park specific information is available in Appendices C-E.

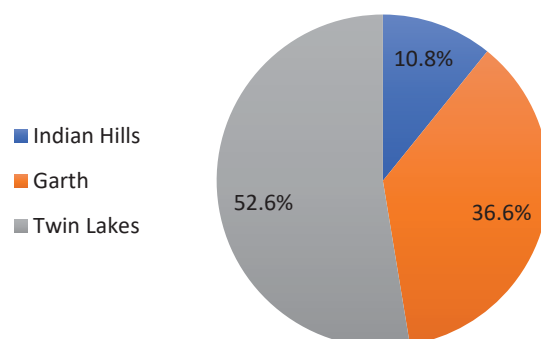
### Response Rates

- Total completed surveys..... 180
- Total unique contacts..... 215
- Overall response rate (180/215) : 83.7%**
- Total re-encounters..... 110
- Total contacts (overall)..... 325
- Overall re-encounter rate (110/325) : 33.8%**

### Response Distribution by Park

- **Indian Hills:** 17 complete
- **Garth:** 71 complete
- **Twin Lakes:** 92 complete
- **Total completed surveys:** 180

**Figure 1: Response rate by park**







**Garth Nature Area**  
2799 N. Garth Ave.





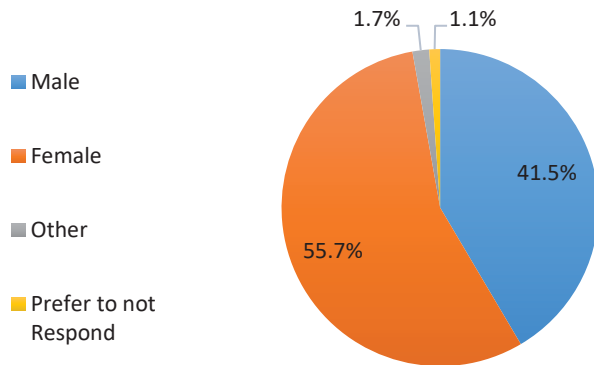
**Indian Hills Park**  
 5009 Aztec Boulevard (West Entry)  
 5390 Sandrock Drive (East Entry)





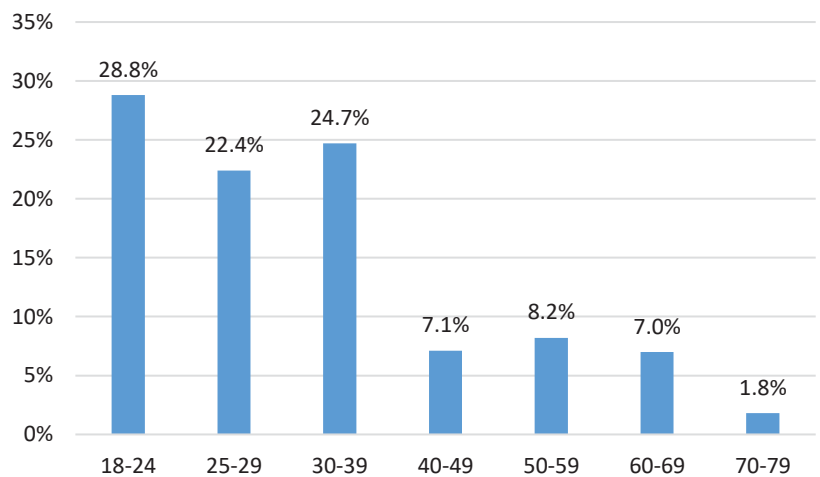
## Section I: Respondent Profile

**Figure 2: Respondent gender (n=176)**



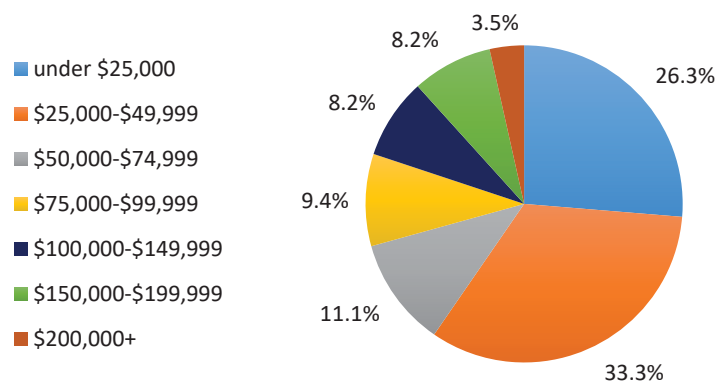
- More than half (56%) of the respondents were female (Figure 2)

**Figure 3: Respondent age groups (n=170)**



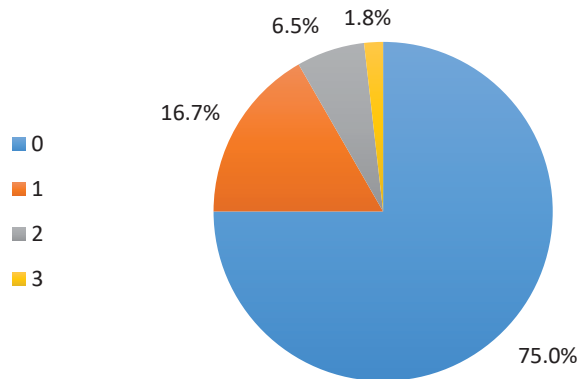
- Nearly 30% of respondents were between the ages of 18 and 24 (Figure 3)
- Over half (51%) of respondents were under the age of 30 (Figure 3)

**Figure 4: Annual household income before taxes (n=171)**



- A third (33%) of respondents have an annual household income of \$25,000-\$49,999 (Figure 4), although at Indian Hills, about a third (31%) report making less than \$25,000
- More than half of respondents (60%) report making less than \$50,000/year (Figure 4)

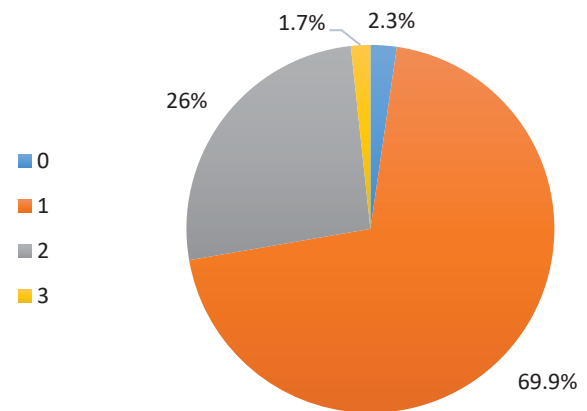
**Figure 5: Number of children under 18 in household (n=168)**



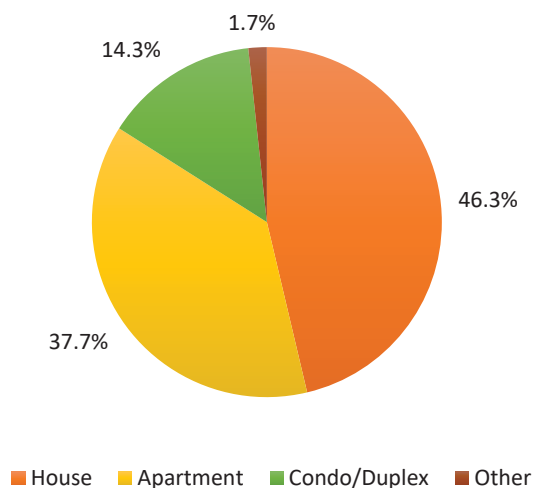
- The majority of dog park users (75%) report having no children (Figure 5)
- This finding could be attributed to the fact that Columbia is a college town, with the majority of survey respondents being under 30 years old

- The majority of respondents (70%) report only owning one dog (Figure 6)
- Just under 50% of respondents report living in houses, followed by nearly 40% in apartments (Figure 7)
- 62% do not have a fenced in area for dogs where they live (Figure 8)
- Of those without fenced areas, 57% live in apartments, and 19% live in houses

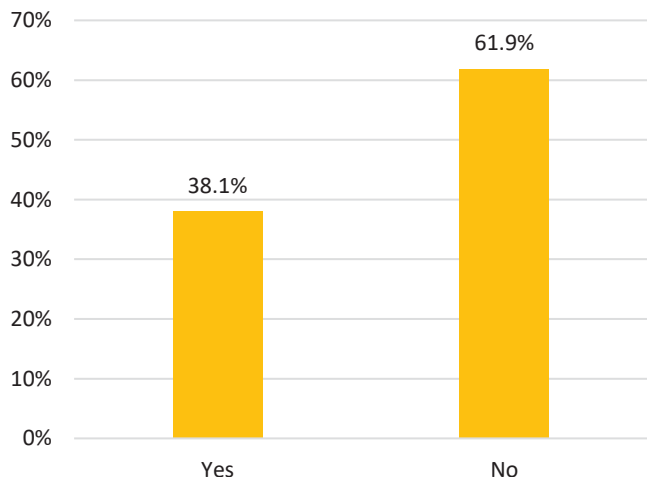
**Figure 6: Number of dogs owned (n=173)**



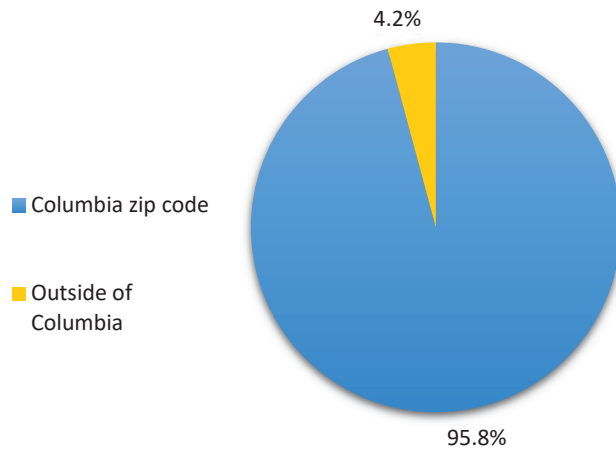
**Figure 7: Residence type (n=175)**



**Figure 8: Does your residence have a fenced area for dogs (n=176)**



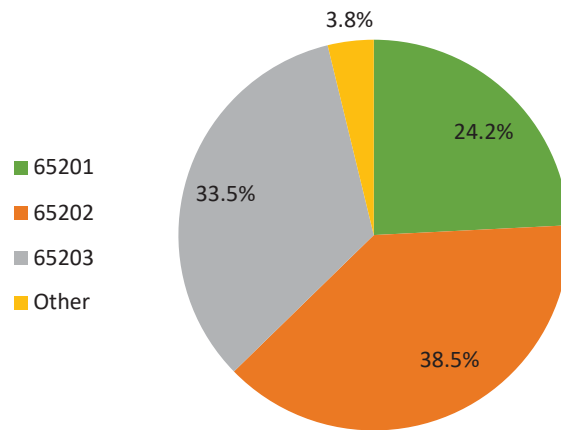
**Figure 9: What is your zip code? (n=168)**



- The majority of respondents (96%) live within a Columbia, MO zip code (Figure 9)
- Other visitors reported zip codes from St. Louis, MO, Arizona, New Mexico, Arkansas, and Hawaii

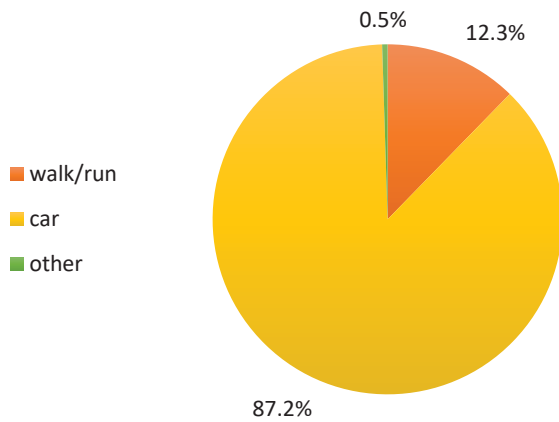
- Although respondents came from nearly all zip codes in the Columbia area, the most common were 65201, 65202, and 65203 (Figure 10)
- The majority of visitors at Twin Lakes were from 65203 (56%), while 65202 was the most common zip code for visitors at Garth (63%) and Indian Hills (75%); these correspond with the zip codes where the parks are located

**Figure 10: Respondent zip codes (within Columbia) (n=161)**

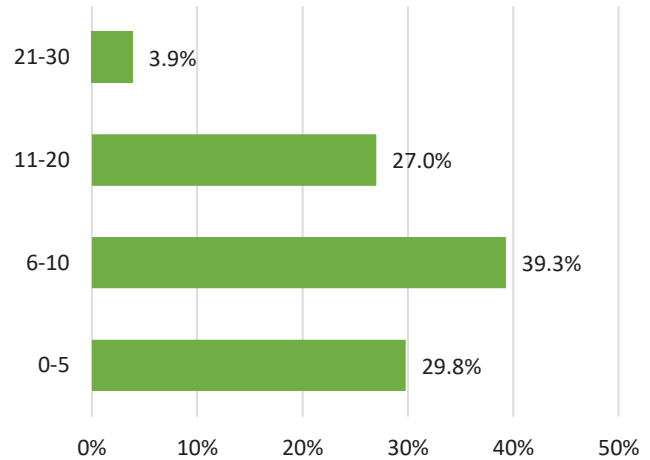


## Section II: Usage and Today’s Visit

**Figure 11: Transportation to the dog park (n=179)**

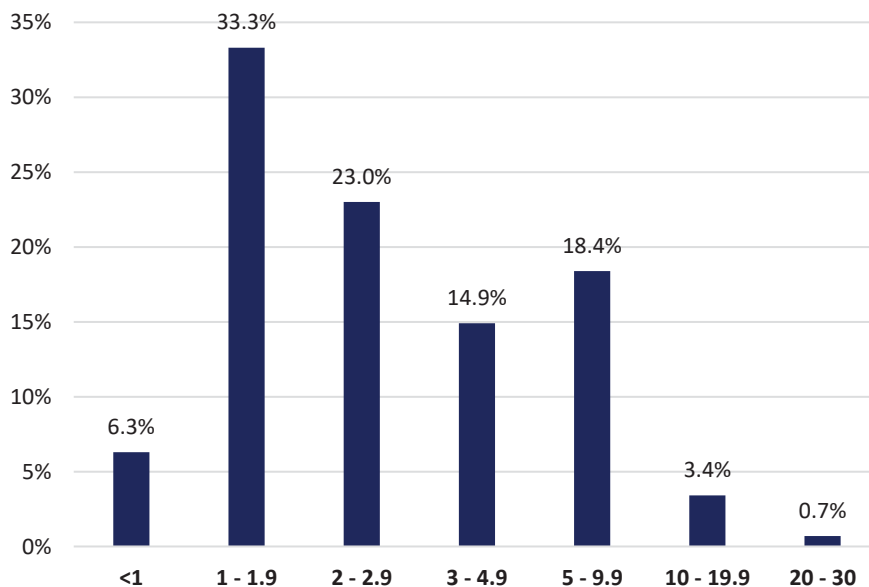


**Figure 12: Travel time (minutes) (n=178)**



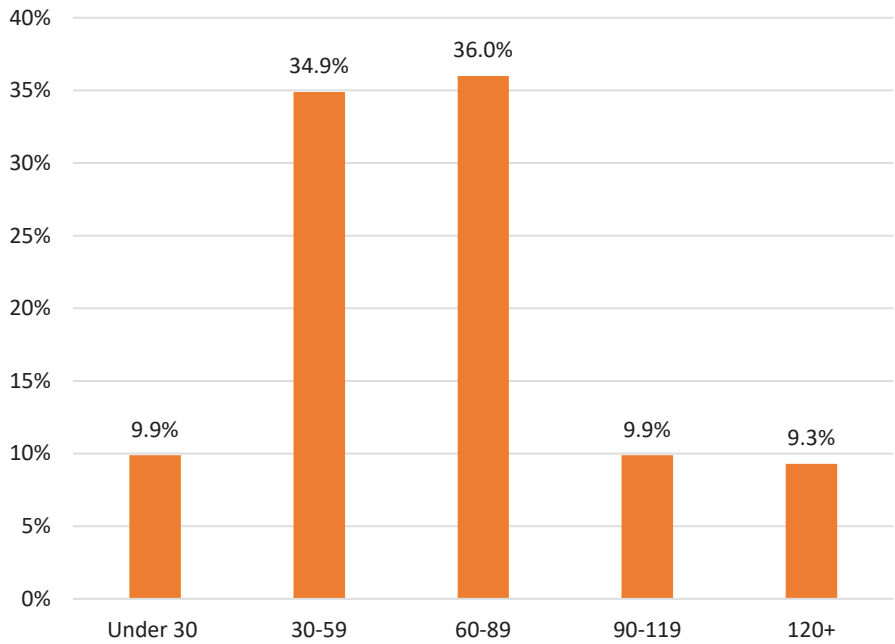
- Most respondents (87%) traveled to the dog park by car (Figure 11)
- The majority of respondents (69%) arrived at the dog park in 10 minutes or less (Figure 12)

**Figure 13: Miles traveled to the dog park (n=174)**



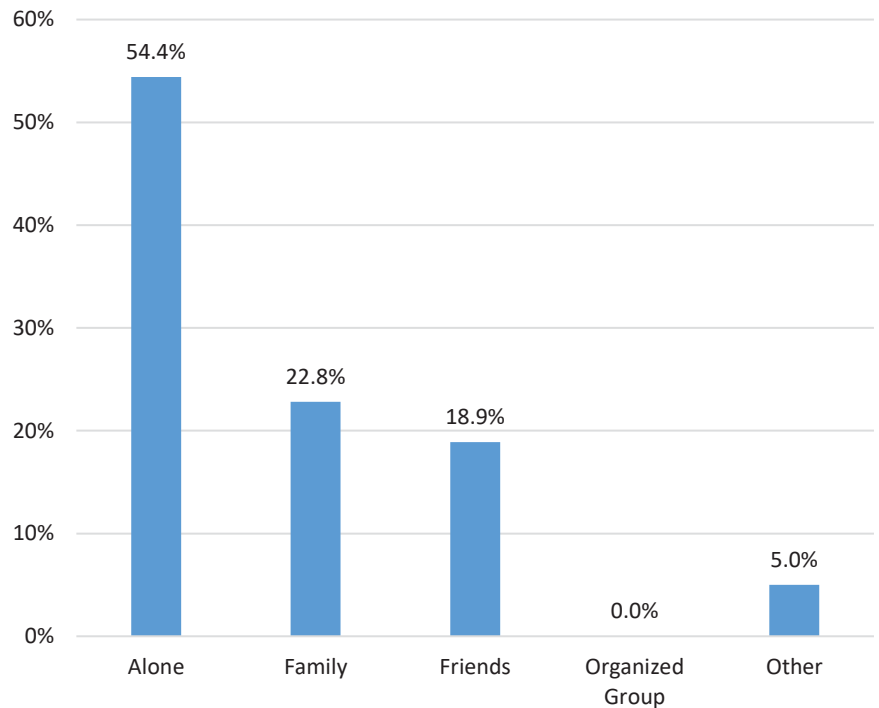
- 40% of respondents traveled *less than 2 miles* to the dog park (Figure 13)
- Over one-third (37%) of respondents traveled *3 or more miles* to the dog park (Figure 13)

**Figure 14: Length of stay at the dog park (minutes) (n=172)**



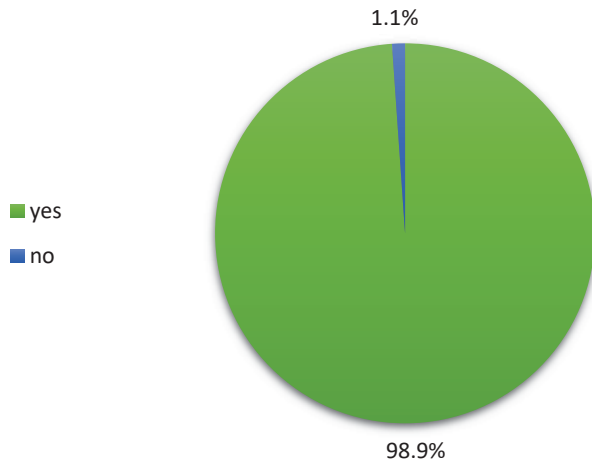
- Over half of respondents (55%) report spending an hour (60 minutes) or more at the dog park (Figure 14)
- 9% of respondents report spending 2 hours or more at the dog park (Figure 14)

**Figure 15: With whom are you visiting the dog park today? (check all that apply) (n=180)**



- More than half of respondents (54%) report visiting the dog park alone (Figure 15)
- The 5% of respondents that selected “other” noted that they were visiting the dog park with a significant other (Figure 15)

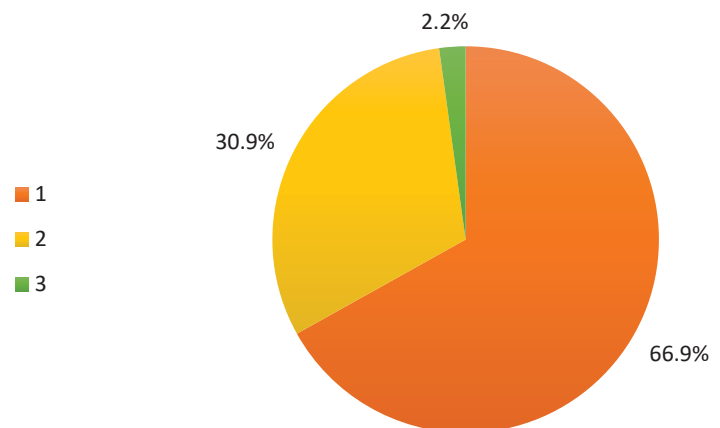
**Figure 16: Are you here with dog(s) today? (n=180)**



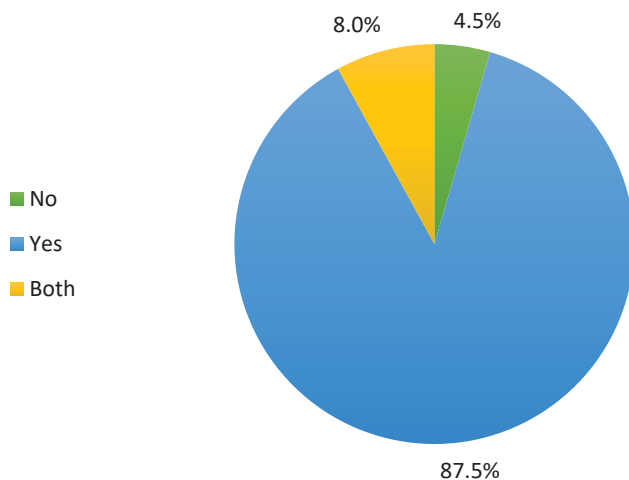
- The two respondents who were not at the park with dogs (1%) were visiting to get an idea of what Columbia's dog parks were like, as they were planning to adopt dogs (Figure 16)

**Figure 17: If you are here with dog(s), then how many dog(s) are you here with today? (n=178)**

- Of the 99% of respondents that were with dogs, the majority (67%) were only with one dog (Figure 17)



**Figure 18: If you are with a dog(s), are you the owner of the dog(s)? (n=176)**



- The majority of respondents (95.5%) were with dog(s) they own (Figure 18)
- 12.5% were with dog(s) they do not own (Figure 18)

**Table 1: Place Attachment**

	n	Mean	S.D.
<b>Place Identity (<math>\alpha=.824</math>)</b>		<b>3.86</b>	<b>.244</b>
This dog park means a lot to me	179	4.13	.711
I am very attached to this dog park	177	3.81	.829
I identify strongly with this dog park	176	3.65	.834
<b>Social Bonding (<math>\alpha=.683</math>)</b>		<b>3.77</b>	<b>.293</b>
I have a lot of fond memories about this dog park	178	3.96	.773
I bring my family/friends to this dog park	176	3.91	.788
I have a special connection with the people who come to this dog park	176	3.43	.885
<b>Place Dependence (<math>\alpha=.779</math>)</b>		<b>3.72</b>	<b>.127</b>
I enjoy recreating at this dog park more than any other dog park	179	3.80	.789
This dog park is the best place for dogs	178	3.78	.832
I wouldn’t substitute any other dog park for what I do here	178	3.57	.787

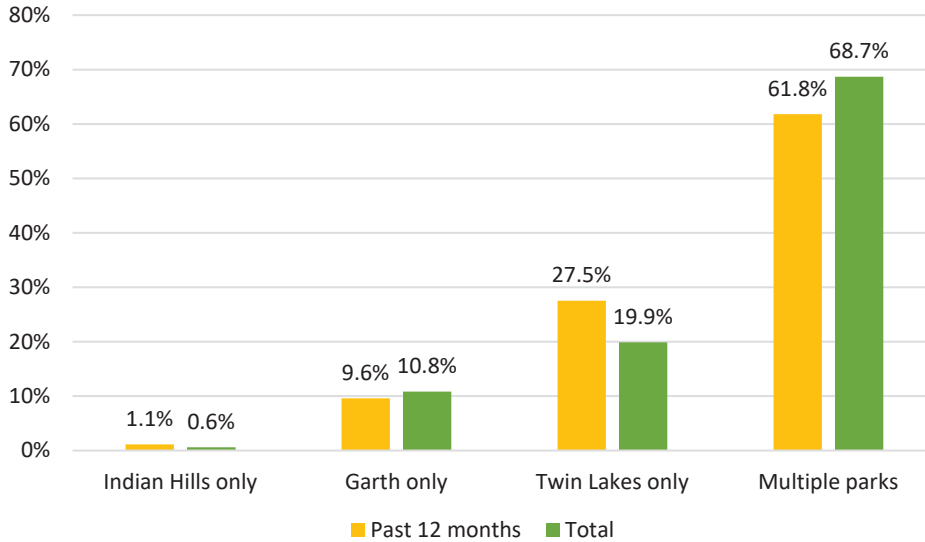
1=Strongly Disagree, 5=Strongly Agree

- *Place Attachment* is a sense of meaning and emotional bonding with important places (Kyle et al., 2005; Low & Altman, 1992; Williams & Vaske, 2003). It is commonly comprised of three dimensions:
  - *Place Identity*: emotional and symbolic ties with a place
  - *Place Dependence*: a functional attachment based on a place’s ability to satisfy activity needs/goals
  - *Social Bonding*: a place is considered special because of the social ties and interactions it supports
- Place Identity was rated the strongest dimension of place attachment across all three parks
  - This was followed by social bonding and then place dependence at Garth and Indian Hills
  - Place dependence ranked higher than social bonding at Twin Lakes



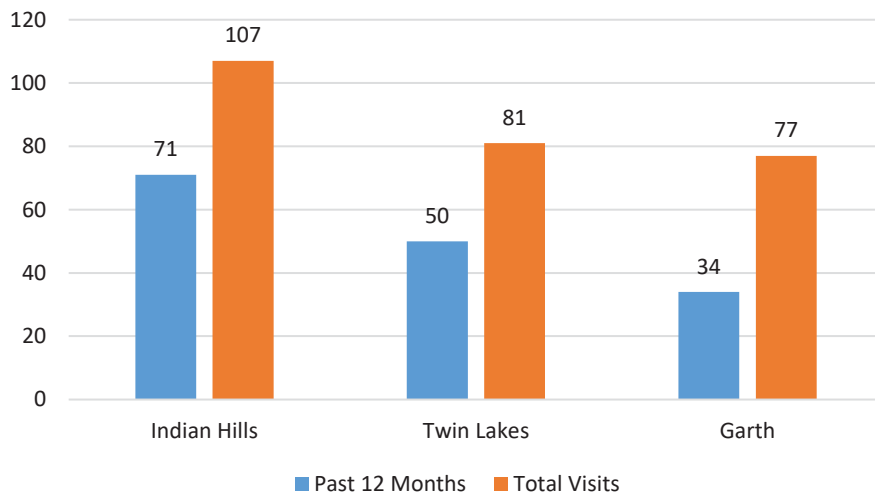
## Section III: Columbia Parks and Recreation Dog Parks

Figure 19: Park visitation



- Most respondents have visited multiple Columbia, MO, dog parks in both the *past 12 months* (62%) and in *total* (69%) (Figure 19)

Figure 20: Average (mean) number of visits to each dog park

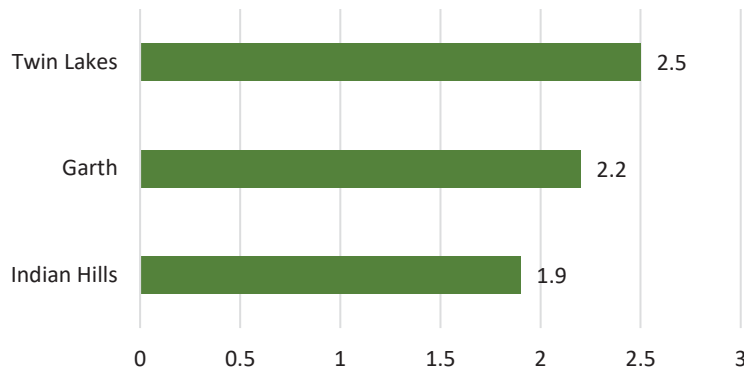


- Although Indian Hills had the fewest visitors encountered, those that were accounted for the most frequent visitation and re-encountered contacts

- The average number of visits over the *past 12 months* ranged from  $M=34$  (Garth) to  $M=71$  (Indian Hills), with a maximum number of visits reported ranging from 300 (Garth) to 800 (Indian Hills) (Figure 20)
- The average number of *total visits* to each park ranged from  $M=77$  (Garth) to  $M=107$  (Indian Hills), with a maximum total number of visits ranging from 900 (Garth) to 2100 (Indian Hills) (Figure 20)



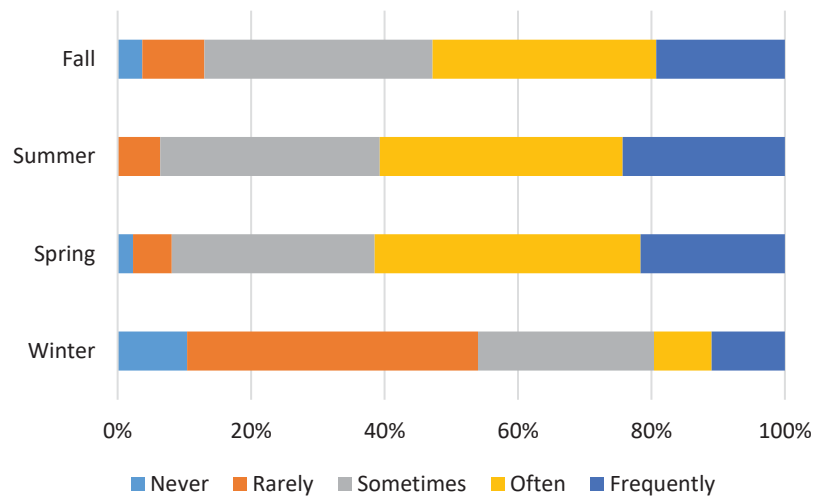
**Figure 21: Average number of years coming to each dog park**



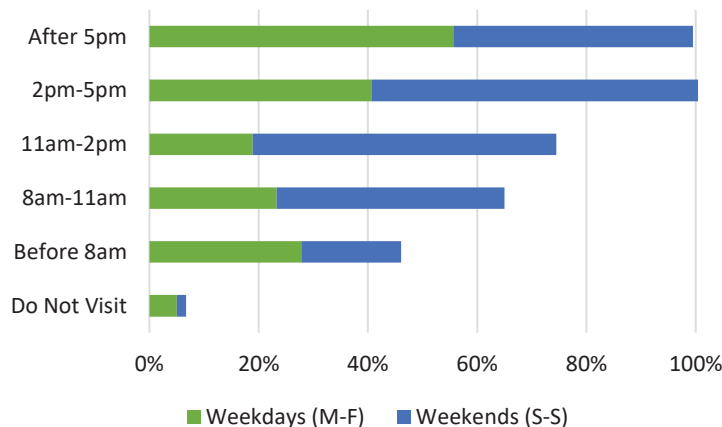
- The average number of years visitors reported coming to each dog park was around 2 years (Figure 21)
- Twin Lakes had the longest visitation at an average of 2.5 years (maximum reported 15 years)

**Figure 22: Park visitation per season**

- The highest use is during the **Spring** and **Summer**; 61% of respondents report visiting *Often (20-49 times)* or *Frequently (50+)* for both seasons (Figure 22)
- Respondents visit the dog parks least frequently during **Winter**; 54% of respondents report visiting *Rarely (1-4 times)* or *Never (0)* (Figure 22)

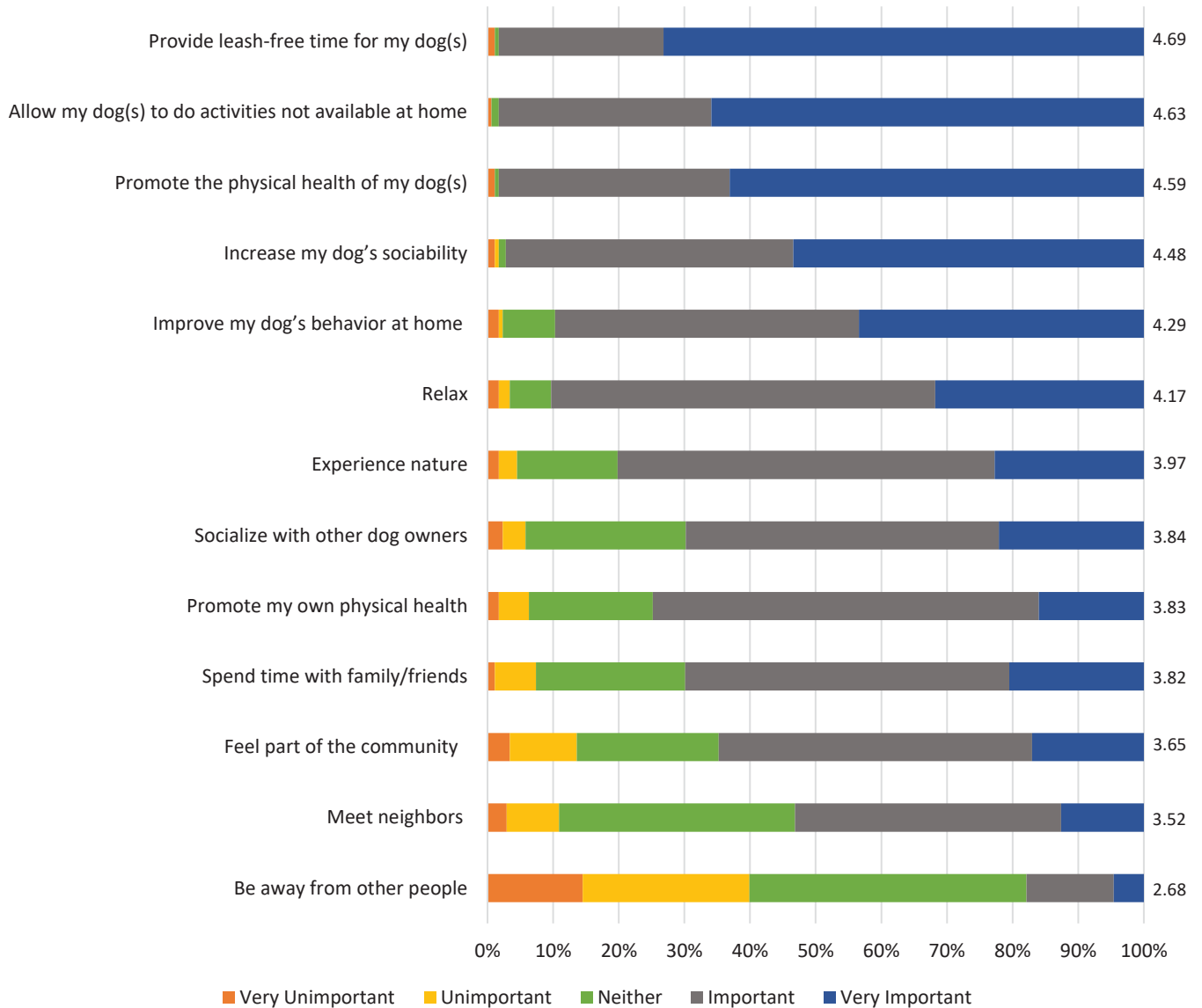


**Figure 23: Weekly visitation times (select all that apply) (n=180)**



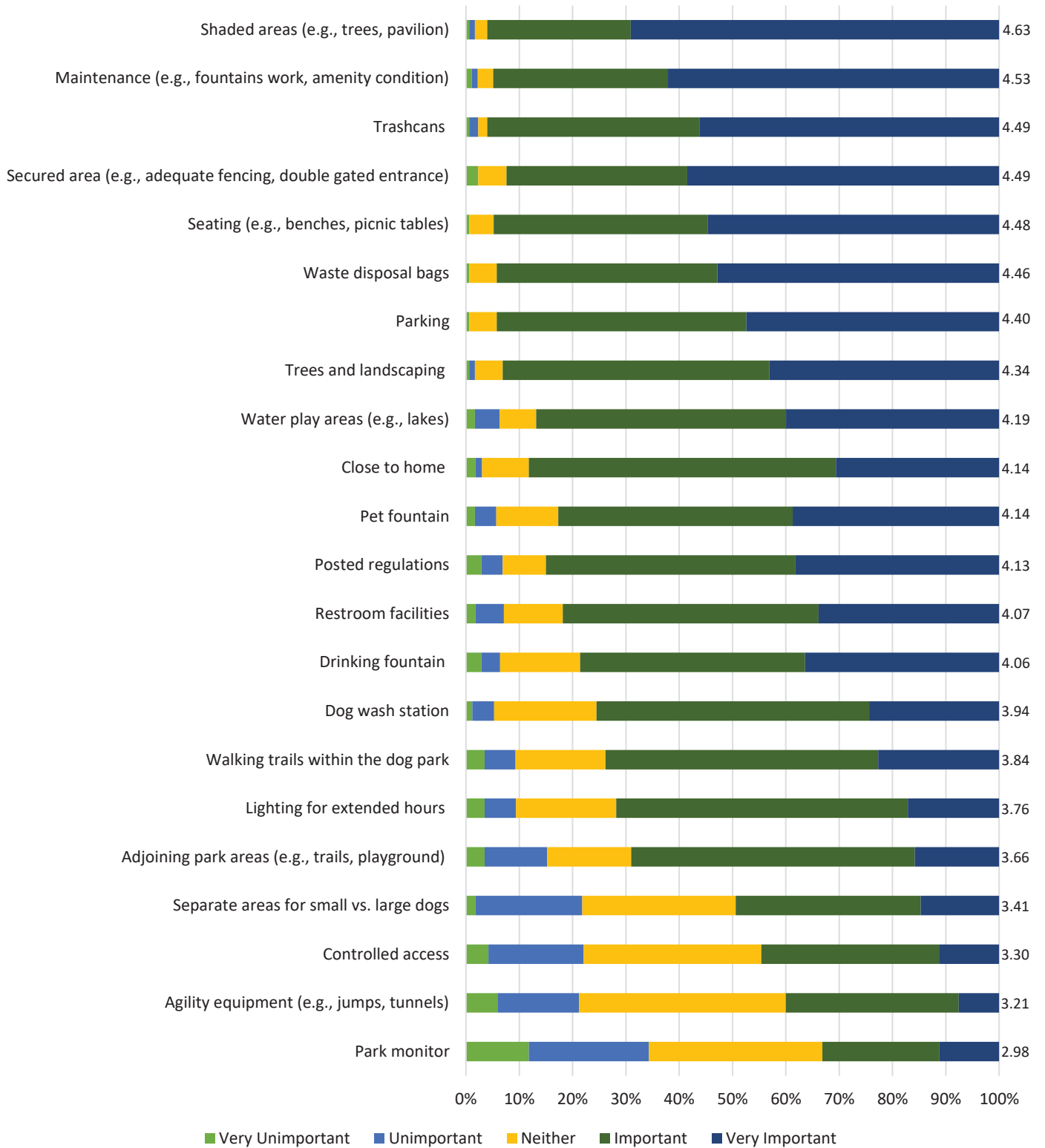
- During the **weekdays (M-F)**, the **most** popular visitation time is *after 5 pm (56%)*; the **least** popular time is *11am-2pm (19%)*
- During the **weekends (S-S)**, the **most** popular visitation time is from *2pm-5pm (62%)*; the **least** popular time is *Before 8am (18%)*

**Figure 24: Motivations for choosing a dog park**



- Respondents’ **most important** (*important/very important*) motivations for visiting a dog park pertain to dog-related motivations: 1) Provide leash-free time for my dog(s) (98%), 2) Allow my dog to do activities not available at home (98%), 3) Promote the physical health of my dog (98%), 4) Increase my dog’s sociability (97%), and 5) Improve my dog’s behavior at home (90%) (Figure 24)
- Respondents’ **least important** (*unimportant/very unimportant*) motivation for visiting a dog park is to Be away from other people (40%) (Figure 24)
- While these motivations remained relatively consistent across the three parks, Promote my own physical health was ranked as second-least important motivation at Indian Hills Dog Park

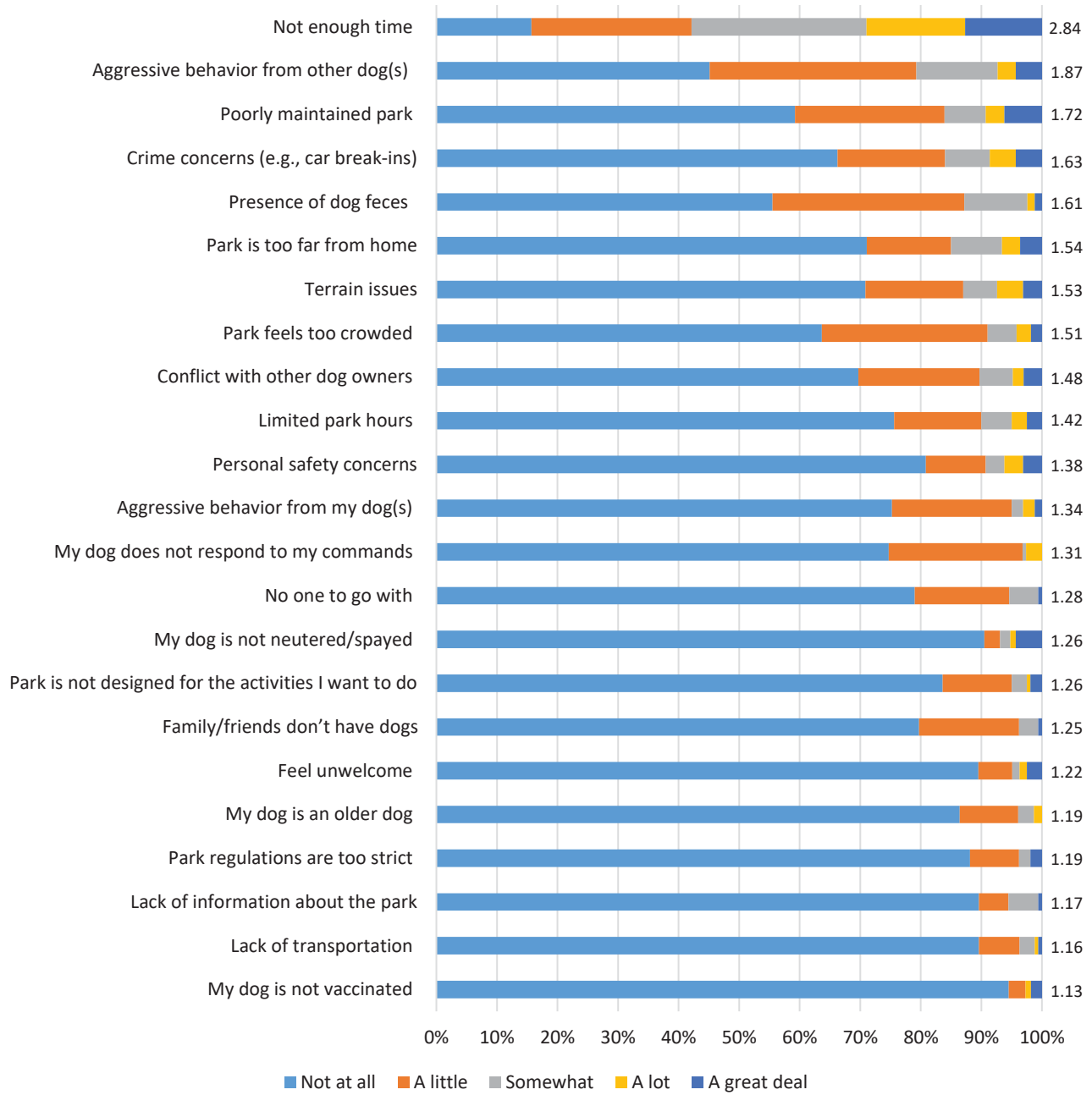
**Figure 25: Importance of dog park attributes**



- **Over 90% of** respondents reported the following dog park attributes to be *Important* or *Very Important*:
  - Shaded areas (96%)
  - Maintenance (95%)
  - Trash cans (96%)
  - Secured area (fencing, double gate) (92%)
  - Seating (95%)
  - Waste disposal bags (94%)
  - Parking (94%)
  - Trees and landscaping (93%)
  
- **50% - 90%** respondents reported the following dog park attributes to be *Important* or *Very Important*:
  - Water play areas (87%)
  - Close to home (88%)
  - Pet fountain (83%)
  - Posted regulations (85%)
  - Restroom facilities (82%)
  - Drinking fountain (79%)
  - Dog wash station (75%)
  - Walking trails within the dog park (74%)
  - Lighting for extended hours (72%)
  - Adjoining park areas (69%)
  
- **Less than 50%** of respondents reported the following dog park attributes to be *Important* or *Very Important*:
  - Separate areas for small/large dogs (49%)
  - Controlled access (45%)
  - Agility equipment (40%)
  - Park monitor (33%)



**Figure 26: Constraints to Visitation**

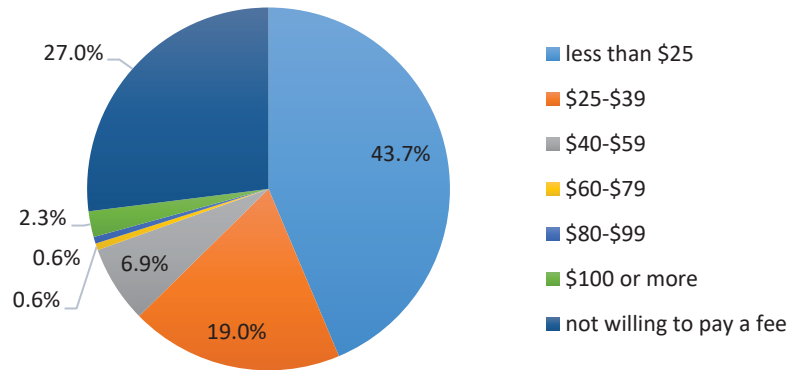


- Overall, visitors reported low levels of constraints. For 21 of the 23 constraint items, at least 80% of respondents expressed *little to no constraint* (Figure 26)
- The greatest constraints to visitation reported were:
  - Not enough time ( $M=2.84$ ; 58% *somewhat to a great deal*)
  - Aggressive behavior from other dogs ( $M=1.87$ ; 21% *somewhat to a great deal*)

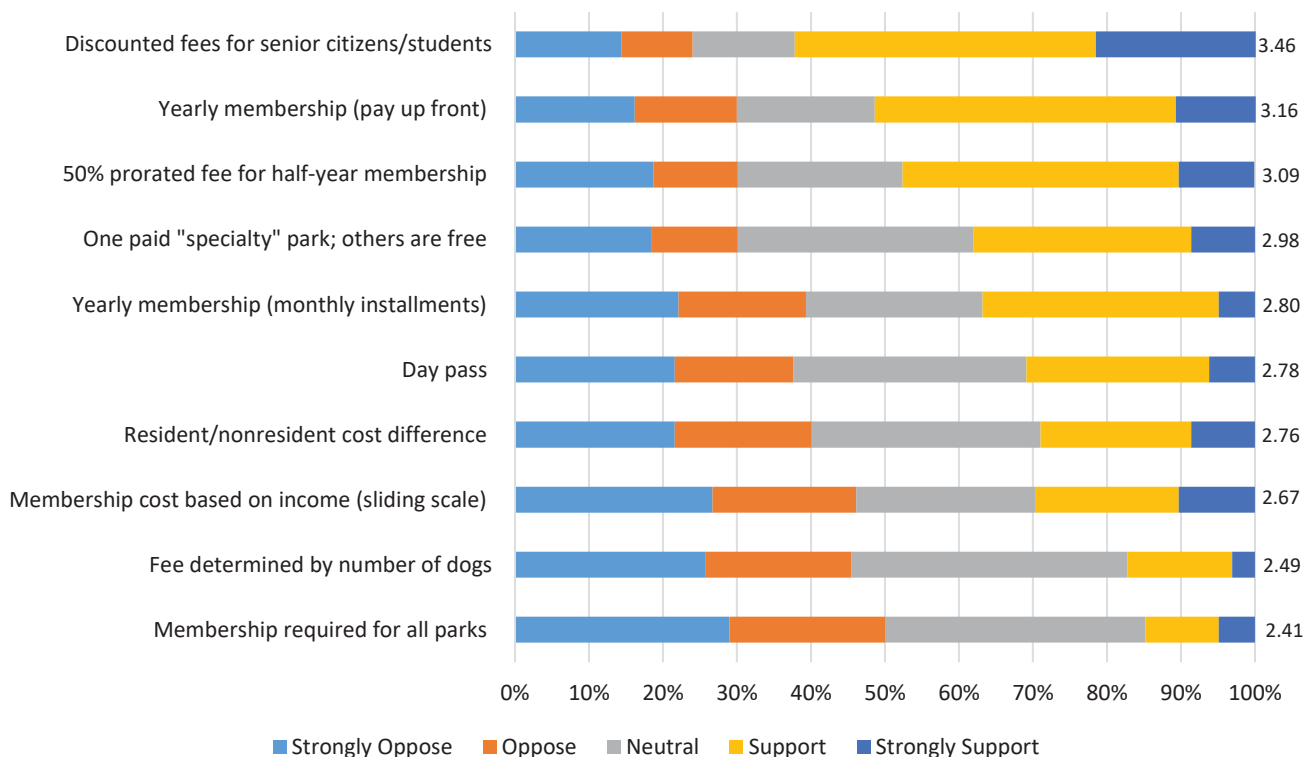
## Section IV: Fees in Dog Parks

- 44% of respondents consider less than \$25 to be a fair annual price for using Columbia Parks & Recreation dog parks (Figure 27)
- 27% of respondents reported being unwilling to pay a fee; This may be related to Columbia not having a history of charging fees for dog park use (Figure 27)

**Figure 27: What would you consider a fair annual price for using Columbia Parks & Recreation dog parks? (n=174)**

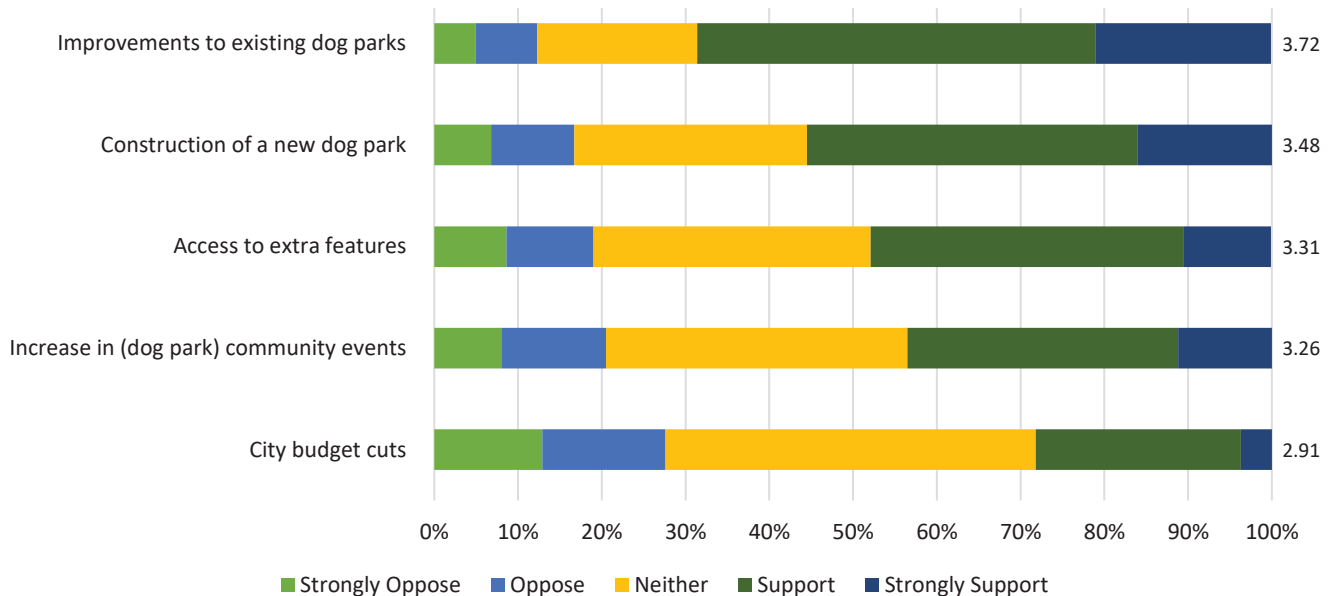


**Figure 28: To what extent would you support or oppose the following fee structures?**



- Respondents indicated the **most support** (*support or strongly support*) for:
  - Discounted fees for senior citizens/students (62%)
  - Yearly membership (pay up front) (52%)
  - 50% prorated fee for half year membership (48%) (Figure 28)
- Respondents prefer one paid “specialty” park (38% *support/strongly support*; 30% *oppose/strongly oppose*) over membership being required for all parks (15% *support/strongly support*; 50% *oppose/strongly oppose*) (Figure 28)

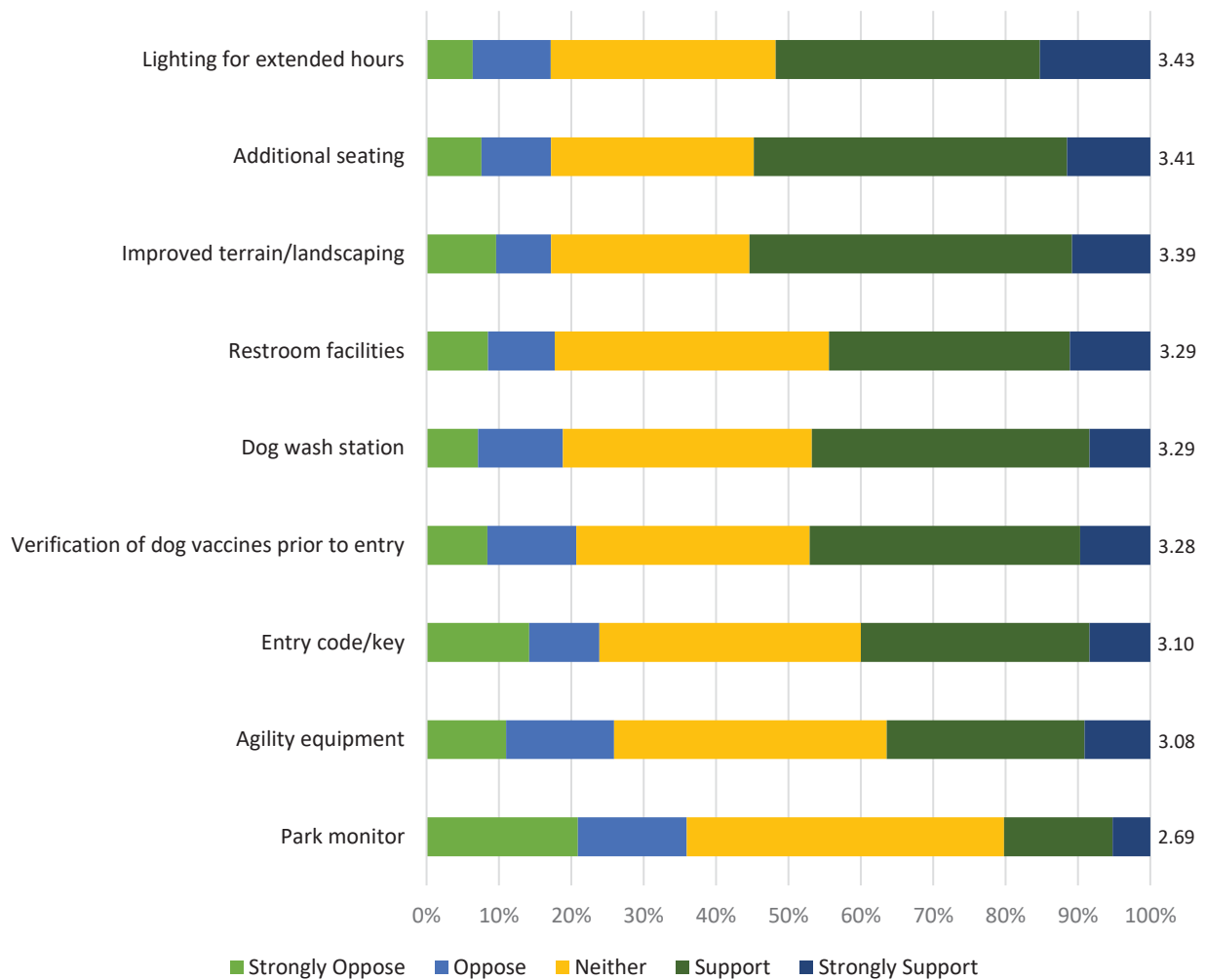
**Figure 29: For each of the following circumstances, to what extent would you support or oppose paying a \$25 fee for using Columbia Parks & Recreation dog parks?**



- Improvements to existing dog parks (69%) was the **most supported** (*support or strongly support*) circumstance for paying a \$25 fee (Figure 29)
- City budget cuts (28%) was the **most opposed** (*oppose or strongly oppose*) circumstance for paying a \$25 fee (Figure 29)



**Figure 30: To what extent would you support or oppose paying a \$25 fee for using Columbia Parks & Recreation dog parks in exchange for the following features?**



- Features that respondents reported the **most support** (*support or strongly support*) for in exchange for paying a \$25 fee include:
  - Lighting for extended hours (52%)
  - Additional seating (55%)
  - Improved terrain/landscaping (55%)
  - Restroom facilities (44%)
- Several differences emerged the rankings across parks:
  - Dog wash station ranked 4<sup>th</sup> most important at Garth, ahead of restroom facilities
  - Dog wash station ranked as the most supported feature at Indian Hills, followed by lighting for extended hours and additional seating.



## Section V: Comments from Dog Park Users

At the end of the survey, respondents were given the opportunity to share any extra questions, comments, or concerns.

Seventy-eight respondents (43%) provided comments. These comments were categorized based upon recurring themes that occurred during the evaluation process.



Many people commented about how much they enjoy the dog parks. Others took this opportunity to elaborate on their concerns and desires about safety and maintenance,

regulations, and features and amenities in the dog park. Comments and questions about the possibility of fees were common, and numerous visitors explained they were new to the area and/or dog ownership. Other comments touched upon usage, and benefits.

Eight themes emerged related to: 1) general positive feedback; 2) features and amenities; 3) safety and maintenance; 4) fees; 5) regulations; 6) usage; 7) benefits; and 8) new to area and/or dog ownership.

The frequency and percentage of each emerging theme is presented in Table 2.



**Table 2: Frequency and percent of themes from respondents’ comments**

Themes	frequency	% of comments
Theme 1: General positive feedback	11	12%
Theme 2: Features and amenities	16	18%
Theme 3: Safety & maintenance concerns	23	25%
Theme 4: Fees	14	15%
Theme 5: Regulations	6	7%
Theme 6: Usage	10	11%
Theme 7: Benefits	2	2%
Theme 8: New to area and/or dog ownership	9	10%
<b>Total Comments</b>	<b>91</b>	

**Theme 1: General positive feedback**

A number of users expressed positive remarks for a particular dog park or the dog parks in general. Some non-local users expressed the desire for similar facilities in their areas. Below are some examples from respondent quotes:

*“Great park for families (not just dog park).” (Twin Lakes)*

*“I appreciate access to designated dog parks.”*

*“For me, the dog park is the number one feature about Columbia Parks that I love.”*

*“Love twin lakes with the lake and free run. Wish we had this facility in Albuquerque.”*

*“Been to dog parks all over California and Hawaii and this is the best one!” (Twin Lakes)*



**Theme 2: Features and amenities**

A number of users took the opportunity to share what features they desire to see in the dog parks. Most frequent comments indicated needs for shade, more trash cans, and more lighting. Examples of quotes from respondents are noted:

*“More lighting, cameras, rule enforcement, no fishing signs, and shade.” (Twin Lakes)*

*“It would be really nice to have a covered pavilion w/ benches over near the back of the larger, all year-round dog park.” (Twin Lakes)*

*“Garth has nice shade compared to twin lakes but still maybe could use extra shade on open half.”*

*“Nice park, but hard to find shade on a hot day.” (Twin Lakes)*

*“We could definitely support more restricted access.” (Indian Hills)*

*“It would be nice and more convenient if there were multiple dog waste stations in the park, rather than just one at the entrance.” (Garth)*

*“Could please use a garbage can near the tables. There is only one can!!!” (Garth)*

*“Don't like the pea gravel around the lake. Gets in dogs' paws/uncomfortable for them.” (Garth)*

*“Strongly support an additional dog park with trail system.”*

*“Doggie drinking fountains should be mandatory.”*

*“Lighting for after dark should be the biggest priority.” (Indian Hills)*

*“More off-leash areas would be nice.”*

*“Improve quality and location of bathrooms (far with dog and child).” (Twin Lakes)*



**Theme 3: Safety and maintenance concerns**

The greatest number of respondent comments were in regard to various safety and

maintenance issues in the dog parks. Some comments noted specific issues, while others were more general. Concerns about presence of dog feces, car break-ins, and dirty swimming water were each noted several times. Examples of respondent comments are below:

*"I love twin Lakes and used to go there constantly, but then one of my dogs swam around the fence and ran away; I wish fence went further out into the water."*

*"Better upkeep, especially need to empty trash cans more as they are filled to the brim with poop.... unsanitary and nasty."* (Twin Lakes)

*"Biggest issue is people not picking up after their dogs."*

*"Twin lakes needs to keep small dogs in small dog area."*

*"Repair fencing so small dogs can't escape."* (Twin Lakes)

*"...however the dog parks on the north side of town, especially Indian hills, lacks general maintenance."*

*"Garth and Twin Lakes dog parks are very often too crowded for a safe experience for dogs as many dogs are not trained well enough."*

*"Garth Dog Park needs work on its pond. It is too shallow, and the aerator doesn't seem to be working well enough, or not powerful enough to adequately move water - water is very stagnant, full of algae already, and smells."*

*"Water is dirty in the small dog area."* (Twin Lakes)

*"We've called the cops on people who go to the dog park at Garth for making threats. We now go to Twin Lakes and it feels far safer. However, I've only been to those two so I can't speak for security at any other Columbia dog park."*

*"Sometimes worried about car break-ins at this park."* (Twin Lakes)

*"I fell in the wooded area. Severely sprained ankle. No help was available. Had a painful long walk back to the car. 'Borrowed' rebar from fence for cane (friend replaced it). Think about ways to provide assistance for accidents."* (Twin Lakes)

*"Poison ivy is prevalent."* (Twin Lakes)

*"2 rules: keep it safe, keep it clean; c'mon, how hard is it?"*

*"Take care of existing parks, stop opening new areas."*



#### **Theme 4: Fees**

A number of comments were provided regarding fees. Since Columbia has not charged to use dog parks in the past, respondents had various questions about what fees would be used for. Many comments were shared regarding what respondents would be willing to pay for with a fee, while some elaborated on concerns behind a fee program, or reasons for their unwillingness to pay a fee. Some examples of comments are as follows:

*"Already pay taxes I'm not paying fees. Nice parks already, they don't need more money."*

*"I think extra mowing would be a good incentive for a fee program. I don't think a fee should be*

*levied if taxes can be used to maintain the parks.”*

*“Hard to charge fees for all parks as people really need to use dog parks. This might become a financial burden for some. But perhaps make improvements in one park and see if people are willing?”*

*“...but if fees charged, I might not use [the dog park] as much and just go to other off leash areas.”*

*“I'd 100% support a fee to deter irresponsible dog owners from bringing their aggressive or unvaccinated dogs.”*

*“What exactly would the fees be for?”*

*“Would be willing to pay fee if some types of upgrades/improvements were made for the money spent.”*



**Theme 5: Park regulations**

Several comments from respondents acknowledged issues with, lack of, or modifications to dog-related regulations in parks. The following lists all of the comments:

*“I object that there are absolute leash requirements at other parks.”*

*“I suggest modifying that ordinance to designate SOME hours daily at that park (and others?) for the convenience of the large numbers of residents all over town who own*

*dogs and should be able to enjoy [leash-free] access to parks we are financially supporting during early morning hours when the parks are essentially empty and being wasted. Daily, until 8 AM?”*

*“Inform all park rangers about open carry in the parks...they stopped me with my firearm and gave me a ticket for endangering wildlife...”*

*“It could use a few guidelines for owners, such as neutering, but I still love it!!” (Twin Lakes)*

*“Park regulations not enforced.” (Twin Lakes)*

*“More rule enforcement.” (Twin Lakes)*



**Theme 6: Usage**

A few comments were related to how, when, and why respondents use the dog parks. This theme highlights the importance of dog parks for those without fenced yards, as well as importance of park features outside the dog park. Examples of comments are listed:

*“We like to bring our puppy here when he has extra energy.”*

*“This park [Garth] is closest to home but prefer Twin Lakes when with my kids because of the pool and playground.”*

*“We come to this park every day because it is close to home.”*

*“We come to the dog park a lot more now that we down sized from our old house to our condo.”*

*“Love the dog parks since we don't have a fenced yard.”*

*“Been going to dog parks more often lately.”*

*“Dog park seems well used by many.” (Twin Lakes)*

*“Use this park often; unaware of Indian Hills.” (Twin Lakes)*

*“Don't have my own dogs, I usually go to the park with the dogs I take care of from time to time.”*



**Theme 7: Benefits**

The value of dog parks was noted in the following respondent comments:

*“Access to dog parks is so important. Dogs need to run free and far, socialize, and explore natural/wooded areas. A lot of dog owners don't live in this environment and the dogs need it!”*

*“Columbia dog parks are a great way for pet loving residents to come together and also a great way for dogs and dog owners alike to enjoy a more active lifestyle.”*



**Theme 8: New to area and/or dog ownership**

A handful of respondents commented that they were new to the Columbia area, or new to dog ownership. Some of these respondents noted having difficulty answering some of the survey questions due to unfamiliarity. Examples of comments are below:

*“Just moved here about a month ago, and am a new dog owner, so some questions are difficult to answer.”*

*“Some questions are hard to answer (why not come as often, fees) as I am new to area and have not experienced the parks and city climate enough to know a for sure opinion on everything.”*

*“Some questions I can't answer because I just got my dog this summer.”*

*“We currently don't own a dog, but we'll adopt one within 4 weeks.”*

*“First time at dog park; would have liked to have more information on dog-friendly activities.”*

## References

- Andreassen, G., Stenvold, L. C., & Rudmin, F. W. (2013). "My dog is my best friend": Health benefits of emotional attachment to a pet dog. *Psychology & Society, 5*(2), 6-23.
- Brown, S. G., & Rhodes, R. E. (2006). Relationships among dog ownership and leisure-time walking in Western Canadian adults. *American Journal of Preventive Medicine, 30*(2), 131-136.
- Dolesh, R. J. (2018, November). Designing and managing innovative dog parks. *Parks and Recreation Magazine*. Retrieved from <https://www.nrpa.org/parks-recreation-magazine/2018/november/designing-and-managing-innovative-dog-parks/>
- Cline, K. M. (2010). Psychological effects of dog ownership: Role strain, role enhancement, and depression. *The Journal of Social Psychology, 150*(2), 117-131.
- Cutt, H., Giles-Corti, B., Knuiaman, M., & Burke, V. (2007). Dog ownership, health and physical activity: A critical review of the literature. *Health & Place, 13*(1), 261-272.
- Evenson, K. R., Shay, E., Williamson, S., & Cohen, D. A. (2016). Use of dog parks and the contribution to physical activity for their owners. *Research Quarterly for Exercise and Sport, 87*(2), 165-173.
- Graham, T. M., & Glover, T. D. (2014). On the fence: Dog parks in the (un)leashing of community and social capital. *Leisure Sciences, 36*(3), 217-234.
- Gómez, E. (2013). Dog Parks: Benefits, conflicts, and suggestions. *Journal of Park and Recreation Administration, 31*(4), 79-91.
- Gómez, E., & Usher, L. E. (2017). *Making dog parks successful: A resource for parks and recreation professionals*. Technical report: East Carolina University and Old Dominion University.
- Gómez, E., Baur, J. W., & Malega, R. (2017). Dog park users: An examination of perceived social capital and perceived neighborhood social cohesion. *Journal of Urban Affairs, 40*(3), 349-369.
- Krohe, J. (2005). Who let the dogs out? *Planning, 71*(2), 24-27.
- Kyle, G., Graefe, A., & Manning, R. (2005). Testing the dimensionality of place attachment in recreational settings. *Environment and Behavior, 37*(2), 153-177.
- Lee, H., Shepley, M., & Huang, C. (2009). Evaluation of off-leash dog parks in Texas and Florida: A study of use patterns, user satisfaction, and perception. *Landscape and Urban Planning, 92*(3-4), 314-324.
- Low, S., & Altman, I. (1992). *Place attachment*. Springer, Boston, MA.
- Matisoff, D., & Noonan, D. (2012). Managing contested greenspace: Neighborhood commons and the rise of dog parks. *International Journal of the Commons, 6*(1), 28.
- Middle, I. (2019). Between a dog and a green space: Applying ecosystem services theory to explore the human benefits of off-the-leash dog parks. *Landscape Research, 1*-14.

- Rahim, T., Barrios, P. R., Mckee, G., Mclaws, M., & Kosatsky, T. (2017). Public health considerations associated with the location and operation of off-leash dog parks. *Journal of Community Health, 43*(2), 433-440.
- Shyan, M. R., Fortune, K. A., & King, C. (2003). "Bark Parks" A study on interdog aggression in a limited-control environment. *Journal of Applied Animal Welfare Science, 6*(1), 25-32.
- Spencer, A.-M. (2018, November). Dog Parks. *Parks and Recreation Magazine*. Retrieved from <https://www.nrpa.org/parks-recreation-magazine/2018/november/dog-parks/>
- Stecchi, S. (2011). *So you want to build a dog park?: A comprehensive guide for municipalities and private entities* (7th ed.). DogParksUSA.
- Toohey, A. M., & Rock, M. J. (2011). Unleashing their potential: A critical realist scoping review of the influence of dogs on physical activity for dog-owners and non-owners. *International Journal of Behavioral Nutrition and Physical Activity, 8*(46).
- Urbanik, J., & Morgan, M. (2013). A tale of tails: The place of dog parks in the urban imaginary. *Geoforum, 44*, 292-302.
- Westgarth, C., Christley, R., Marvin, G., & Perkins, E. (2017). I walk my dog because it makes me happy: A qualitative study to understand why dogs motivate walking and improved health. *International Journal of Environmental Research and Public Health, 14*(8), 936.
- Weston, M. A., Fitzsimons, J. A., Wescott, G., Miller, K. K., Ekanayake, K. B., & Schneider, T. (2014). Bark in the park: A review of domestic dogs in parks. *Environmental Management, 54*(3), 373-382.
- Williams, D. R., & Vaske, J. J. (2003). The measurement of place attachment: Validity and generalizability of a psychometric approach. *Forest science, 49*(6), 830-840.
- Wood, L., Giles-Corti, B., & Bulsara, M. (2005). The pet connection: Pets as a conduit for social capital? *Social Science & Medicine, 61*(6), 1159-1173.

**Appendix A**  
**Survey**



For staff use only: Park: _____ Date: _____
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**COLUMBIA PARKS & RECREATION DOG PARK SURVEY**

**TODAY'S VISIT...**

1. How did you get to the dog park today?  Walk/Run  Car  Other (please specify): \_\_\_\_\_
2. About how long did it take you to get here? \_\_\_\_ (hours) : \_\_\_\_ (minutes)
3. About how many miles did you travel to get here? \_\_\_\_ (miles)
4. About how long will you stay here today? \_\_\_\_ (hours) : \_\_\_\_ (minutes)
5. Are you here with any dog(s) today?  
 No  Yes (please answer the following questions):  
 a. How many? \_\_\_\_ dog(s)  
 b. Are you the owner of the dog(s)? (check both if applicable)  No  Yes
6. With whom are you visiting the dog park today? (please check all that apply)  
 Alone  Family  Friends  Organized group  Other (please specify): \_\_\_\_\_

7. Regarding this dog park, to what extent do you agree or disagree with each of the following statements?

Statements	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
This dog park means a lot to me	1	2	3	4	5
I wouldn't substitute any other dog park for what I do here	1	2	3	4	5
I have a lot of fond memories about this dog park	1	2	3	4	5
I have a special connection with the people who come to this dog park	1	2	3	4	5
I enjoy recreating at this dog park more than any other dog park	1	2	3	4	5
This dog park is the best place for dogs	1	2	3	4	5
I am very attached to this dog park	1	2	3	4	5
I bring my family/friends to this dog park	1	2	3	4	5
I identify strongly with this dog park	1	2	3	4	5

**COLUMBIA PARKS & RECREATION DOG PARKS**

8. For each Columbia Parks & Recreation dog park listed below, please answer the following three questions about your park use. (please enter "0" if you do not visit that dog park)

- |                                  | (1) About how many times have you visited each dog park in the past 12 months? (including today) | (2) About how many total times have you visited each dog park? (estimate) | (3) How many years have you been coming to each dog park? |
|----------------------------------|--|---|---|
| <b>a. Indian Hills Dog Park:</b> | _____ times (past 12 months)   | _____ times (total)   | _____ years   |
| <b>b. Garth Dog Park:</b>        | _____ times (past 12 months)   | _____ times (total)   | _____ years   |
| <b>c. Twin Lakes Dog Park:</b>   | _____ times (past 12 months)   | _____ times (total)   | _____ years   |

9. About how many times do you visit any of the Columbia Parks & Recreation dog parks during each season? (circle one response in each row)

Season	Never (0)	Rarely (1-4)	Sometimes (5-19)	Often (20-49)	Frequently (50+)
Winter (December-February)	0	1-4	5-19	20-49	50+
Spring (March-May)	0	1-4	5-19	20-49	50+
Summer (June-August)	0	1-4	5-19	20-49	50+
Fall (September-November)	0	1-4	5-19	20-49	50+

10. For each part of the week listed below, what times of the day do you typically visit any of the Columbia Parks & Recreation dog parks? (check all that apply in each row)

- a. Weekdays (Mon-Fri):  do not visit  before 8am  8am-11am  11am-2pm  2pm- 5pm  after 5pm
- b. Weekends (Sat-Sun):  do not visit  before 8am  8am-11am  11am-2pm  2pm- 5pm  after 5pm

**11. How important or unimportant are each of the following reasons to you when choosing to visit a dog park?**

<u>Reasons</u>	Very				
	Unimportant	Unimportant	Neither	Important	Important
Feel part of the community	1	2	3	4	5
Relax	1	2	3	4	5
Spend time with family/friends	1	2	3	4	5
Experience nature	1	2	3	4	5
Socialize with other dog owners	1	2	3	4	5
Promote my own physical health	1	2	3	4	5
Promote the physical health of my dog(s)	1	2	3	4	5
Increase my dog’s sociability	1	2	3	4	5
Improve my dog’s behavior at home	1	2	3	4	5
Provide leash-free time for my dog(s)	1	2	3	4	5
Allow my dog(s) to do activities not available at home	1	2	3	4	5
Meet neighbors	1	2	3	4	5
Be away from other people	1	2	3	4	5

**12. How important or unimportant are each of the following attributes when you choose a dog park?**

<u>Site Attributes</u>	Very				
	Unimportant	Unimportant	Neither	Important	Important
Trashcans	1	2	3	4	5
Water play areas (e.g., lakes)	1	2	3	4	5
Agility equipment (e.g., jumps, tunnels)	1	2	3	4	5
Lighting for extended hours	1	2	3	4	5
Seating (e.g., benches, picnic tables)	1	2	3	4	5
Shaded areas (e.g., trees, pavilion)	1	2	3	4	5
Trees and landscaping	1	2	3	4	5
Waste disposal bags	1	2	3	4	5
Dog wash station	1	2	3	4	5
Drinking fountain	1	2	3	4	5
Pet fountain (drinking fountain with attached dog bowl)	1	2	3	4	5
Restroom facilities	1	2	3	4	5
Parking	1	2	3	4	5
Park monitor	1	2	3	4	5
Controlled access (e.g., proof of vaccination, membership)	1	2	3	4	5
Posted regulations	1	2	3	4	5
Walking trails within the dog park	1	2	3	4	5
Adjoining park areas (e.g., trails, playground)	1	2	3	4	5
Close to home	1	2	3	4	5
Maintenance (e.g., fountains work, amenity condition)	1	2	3	4	5
Separate areas for small vs. large dogs	1	2	3	4	5
Secured area (e.g., adequate fencing, double gated entrance)	1	2	3	4	5

**13. To what extent do the following keep you from visiting this dog park as often as you would like?**

<u>Situations</u>	Not at all	A little	Somewhat	A lot	A great deal	Not Applicable
Not enough time	1	2	3	4	5	NA
Park is too far from home	1	2	3	4	5	NA
Lack of transportation	1	2	3	4	5	NA
Park feels too crowded	1	2	3	4	5	NA
Feel unwelcome	1	2	3	4	5	NA
Conflict with other dog owners	1	2	3	4	5	NA
No one to go with	1	2	3	4	5	NA
Aggressive behavior from my dog(s)	1	2	3	4	5	NA
Aggressive behavior from other dog(s)	1	2	3	4	5	NA
My dog is not vaccinated	1	2	3	4	5	NA
My dog is not neutered/spayed	1	2	3	4	5	NA
My dog does not respond to my commands	1	2	3	4	5	NA
Park regulations are too strict	1	2	3	4	5	NA
Presence of dog feces	1	2	3	4	5	NA
Poorly maintained park (e.g., excess trash, run down facilities)	1	2	3	4	5	NA
Limited park hours	1	2	3	4	5	NA
Terrain issues (e.g., lack of grass, erosion)	1	2	3	4	5	NA
Personal safety concerns (e.g., fear of injury)	1	2	3	4	5	NA
Crime concerns (e.g., car break-ins)	1	2	3	4	5	NA
My dog is an older dog	1	2	3	4	5	NA
Park is not designed for the activities I want to do	1	2	3	4	5	NA
Family/friends don't have dogs	1	2	3	4	5	NA
Lack of information about the park	1	2	3	4	5	NA

**FEES IN DOG PARKS**

**14. Some dog parks in Missouri charge fees, ranging from \$25-\$100 annually. What would you consider a fair annual price for using Columbia Parks & Recreation dog parks? (check one)**

- less than \$25    \$25-\$39    \$40-\$59    \$60-\$79    \$80-\$99    \$100 or more    Not willing to pay a fee

**15. To what extent would you support or oppose each of the following fee structures?**

<u>Fee Structure</u>	Strongly Oppose	Oppose	Neutral	Support	Strongly Support
Yearly membership (pay up front)	1	2	3	4	5
Yearly membership (monthly installments)	1	2	3	4	5
Membership cost based on income (sliding scale)	1	2	3	4	5
50% prorated fee for half-year membership	1	2	3	4	5
Discounted fees for senior citizens/students	1	2	3	4	5
Day pass	1	2	3	4	5
Resident/nonresident cost difference	1	2	3	4	5
One paid "specialty" park; others are free	1	2	3	4	5
Membership required for all parks	1	2	3	4	5
Fee determined by number of dogs	1	2	3	4	5

16. For each of the following circumstances, to what extent would you support or oppose paying a \$25 fee for using Columbia Parks & Recreation dog parks?

Circumstances	Strongly Oppose	Oppose	Neutral	Support	Strongly Support
Access to extra features	1	2	3	4	5
City budget cuts	1	2	3	4	5
Construction of a new dog park	1	2	3	4	5
Improvements to existing dog parks	1	2	3	4	5
Increase in (dog park) community events	1	2	3	4	5

17. To what extent would you support or oppose paying a \$25 fee for using Columbia Parks & Recreation dog parks in exchange for the following features?

Features	Strongly Oppose	Oppose	Neutral	Support	Strongly Support
Agility equipment	1	2	3	4	5
Lighting for extended hours	1	2	3	4	5
Dog wash station	1	2	3	4	5
Additional seating	1	2	3	4	5
Improved terrain/landscaping	1	2	3	4	5
Restroom facilities	1	2	3	4	5
Park monitor	1	2	3	4	5
Verification of dog vaccines prior to entry	1	2	3	4	5
Entry code/key	1	2	3	4	5

FINALLY, PLEASE TELL US ABOUT YOURSELF ....

18. What is your gender?  Male  Female  Other  Prefer not to respond

19. What year were you born? \_\_\_\_\_

20. What is your annual household income before taxes? (check one)

- less than \$25,000   
  \$25,000-49,999   
  \$50,000-74,999   
  \$75,000-99,999  
 \$100,000-149,999   
  \$150,000-199,999   
  \$200,000 or more

21. How many children under the age of 18 live in your household? \_\_\_\_ children under 18 in household

22. How many dogs do you own? \_\_\_\_\_ dog(s)

23. What is your residence type?  House  Apartment  Condominium/Duplex  Other

24. Does your residence have a fenced in area for dog(s)?  Yes  No  Don't own dog(s)

25. What is your zip code? \_\_\_\_\_

26. Please share any other comments, questions or concerns:

*You're done! Thank you very much for completing this survey.*

**Appendix B**  
**Brief Report (Overall)**

**Columbia Parks and Recreation Dog Park Study**  
**Brief Report: Overall Sample**

Lily Bennett  
Sonja Wilhelm Stanis, PhD



**School of Natural Resources**  
University of Missouri

This brief report presents a summary of the onsite visitor survey data collected from three Columbia Parks and Recreation Dog Parks (Indian Hills, Garth, Twin Lakes) May-August 2018 (Response rate 83.7%; n=180)

**Section I: Respondent Profile**

Figure 1: Respondent gender (n=176)

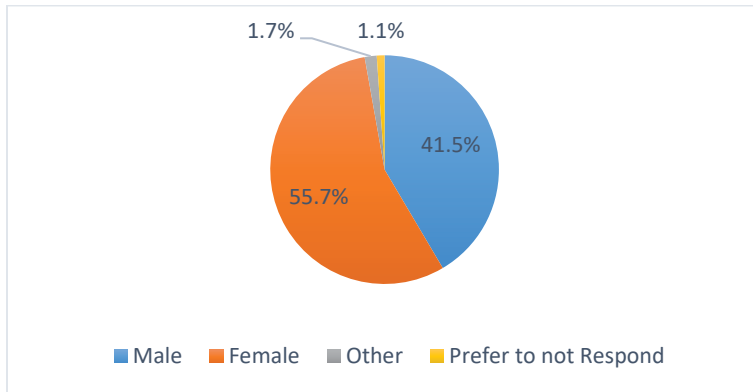


Figure 2: Respondent age groups (n=170)

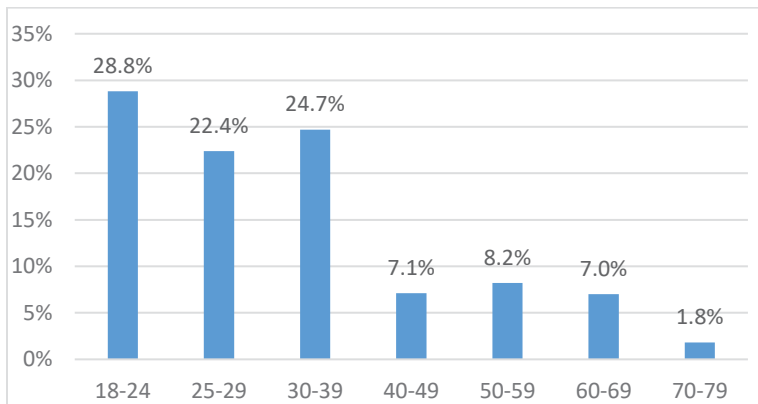


Figure 3: Annual household income before taxes (n=171)

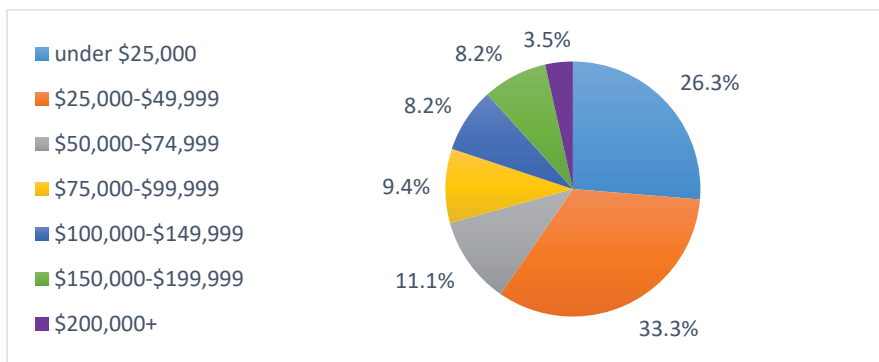


Figure 4: Number of children under 18 in household (n=168)

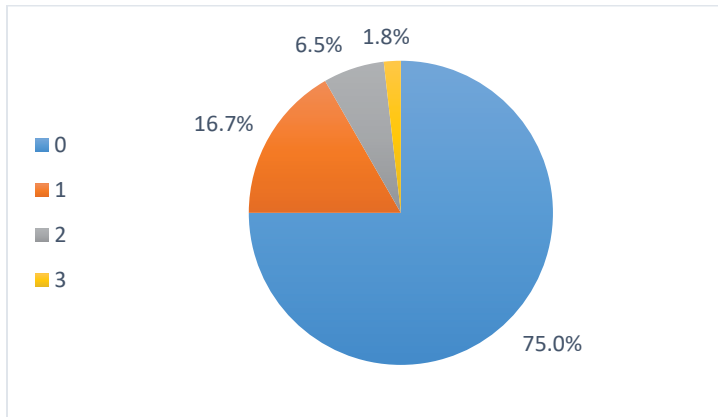


Figure 5: Number of dogs owned (n=173)

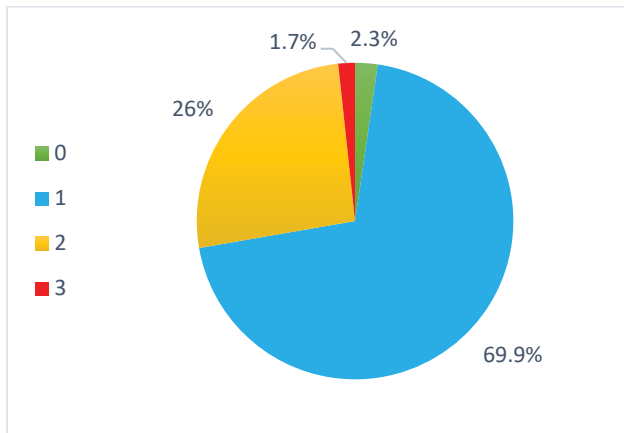


Figure 6: Residence type (n=175)

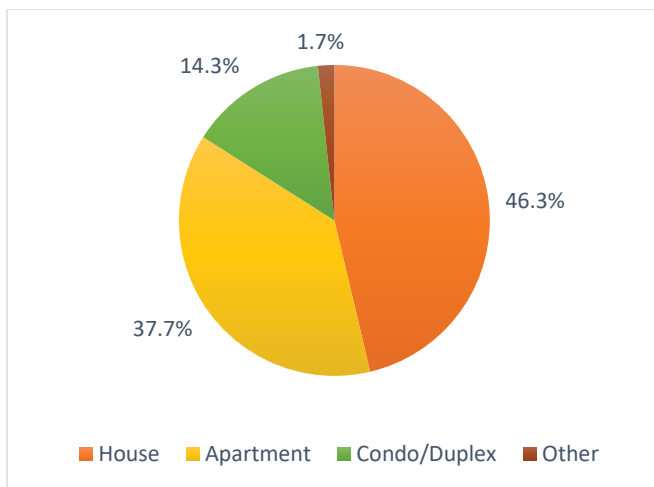




Figure 7: Does your residence have a fenced area for dogs? (n=176)

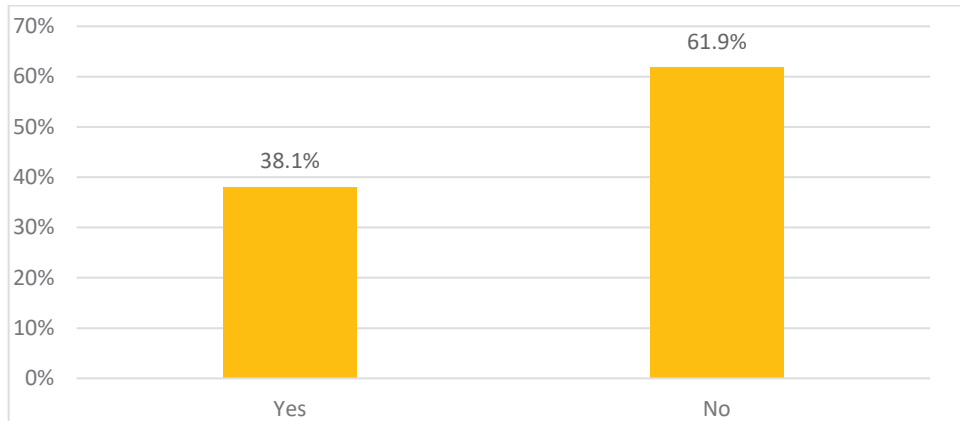


Figure 8: What is your zip code? (n=168)

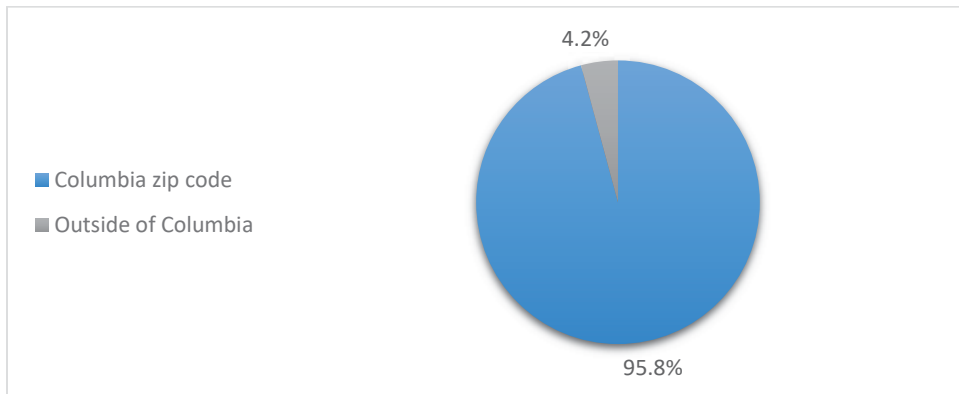
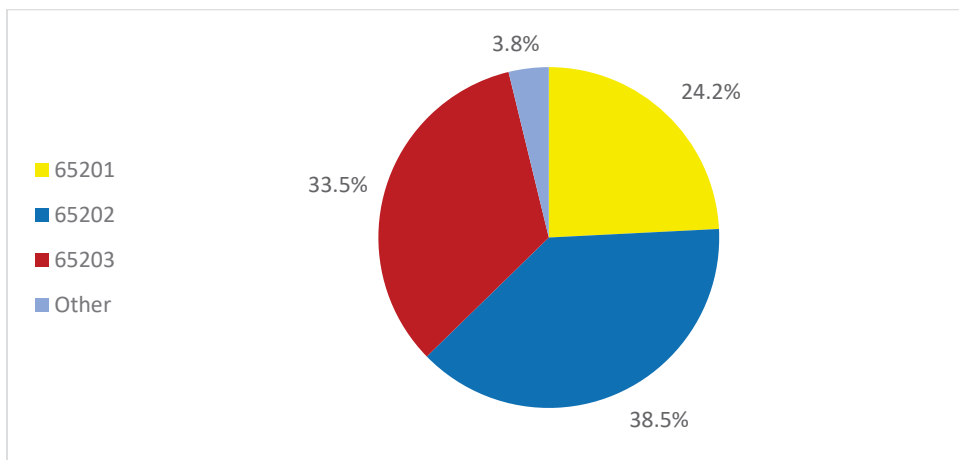


Figure 9: Respondent zip codes (within Columbia) (n=161)



**Section II: Usage and Today's Visit**

Figure 10: Percentage of respondents by park (n=180)

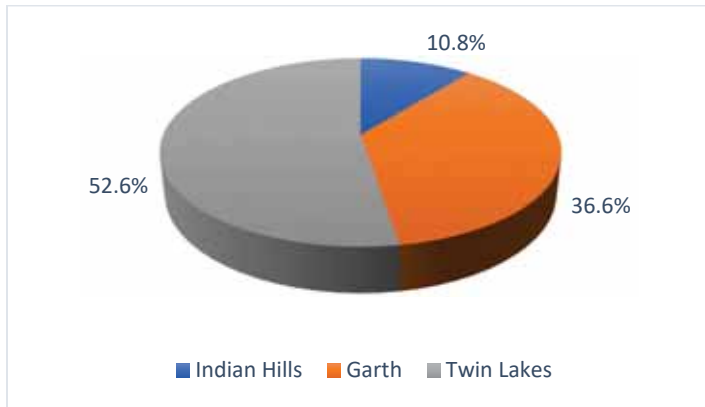


Figure 11: Transportation to the dog park (n=179)

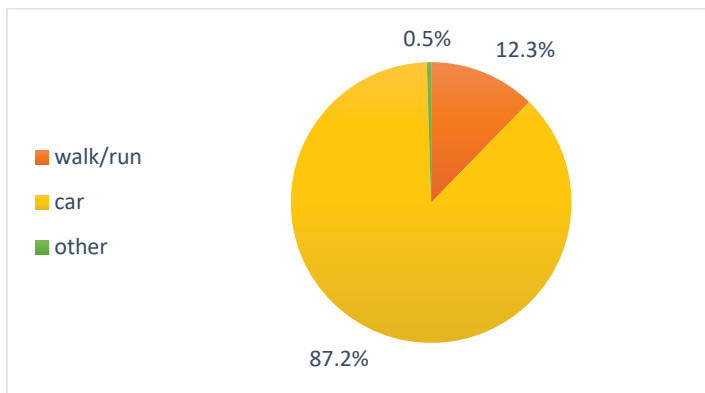


Figure 12: Travel time (minutes) (n=178)

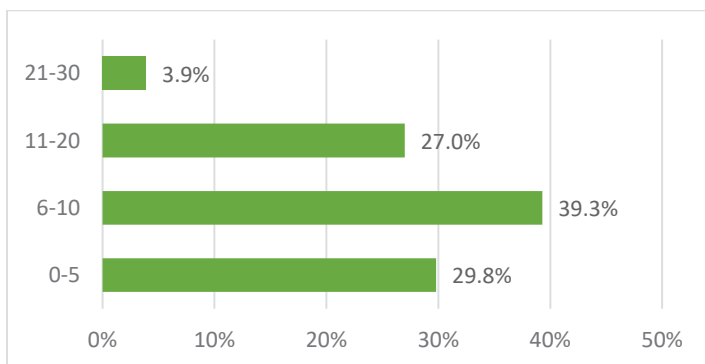


Figure 13: Miles traveled to dog park (n=174)

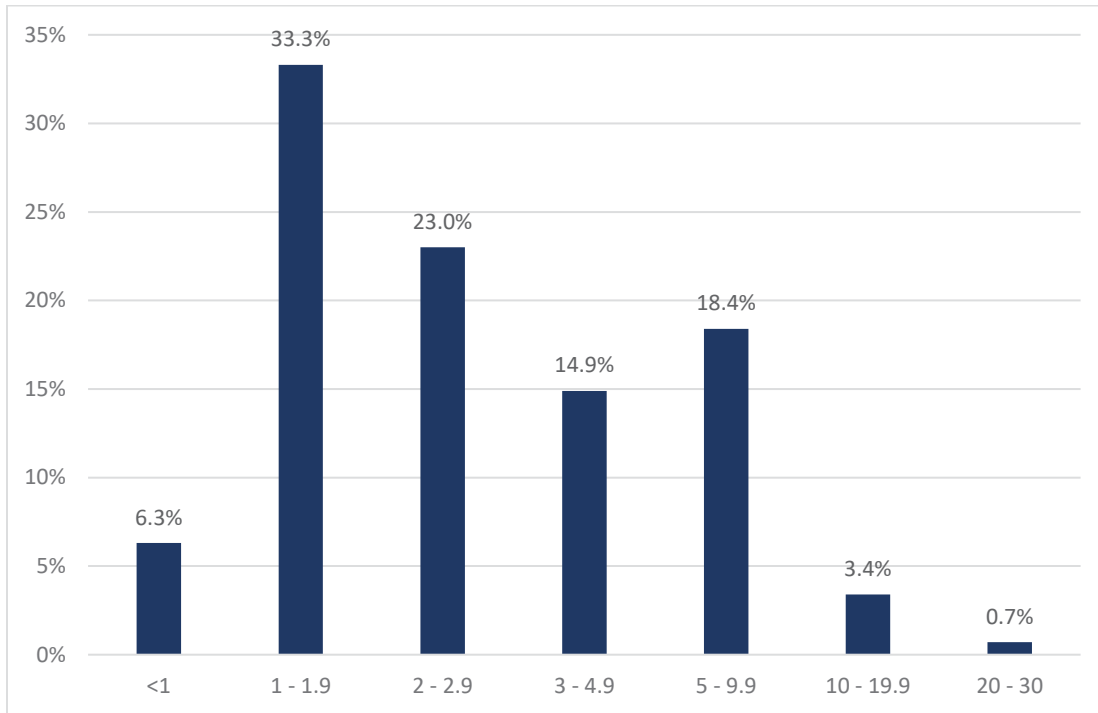


Figure 14: Length of stay at the dog park (minutes) (n=172)

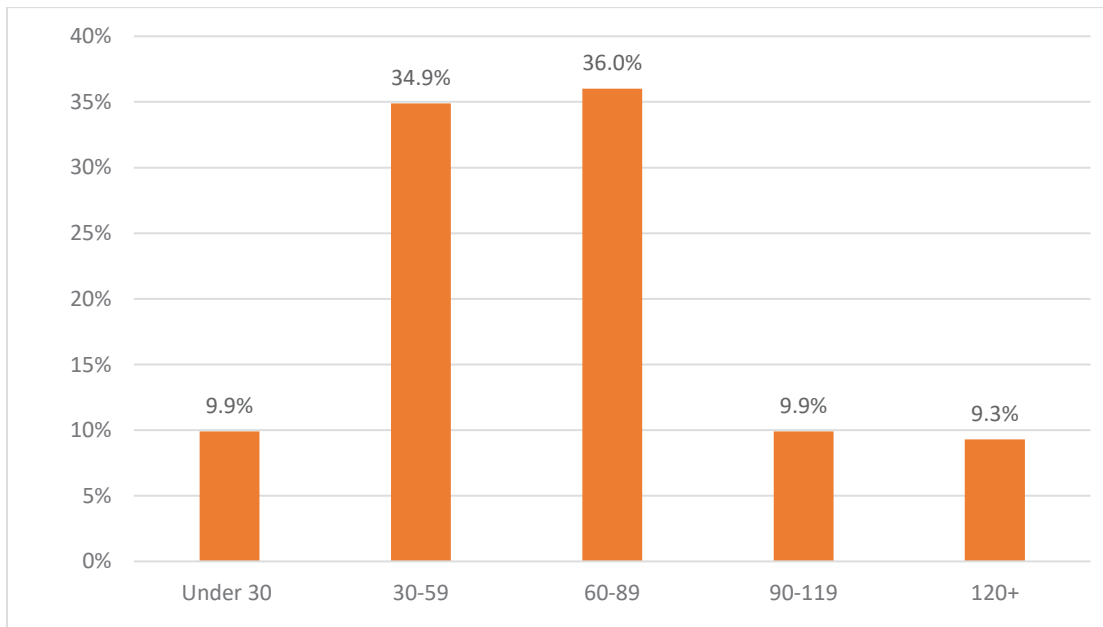


Figure 15: Are you here with dog(s) today? (n=180)

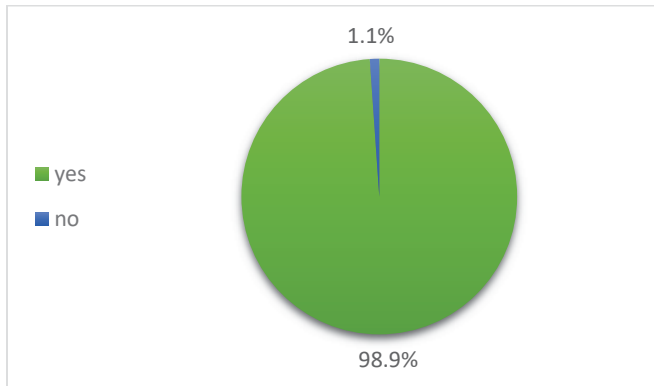


Figure 16: If you are with a dog(s), then how many dog(s) are you here with today? (n=178)

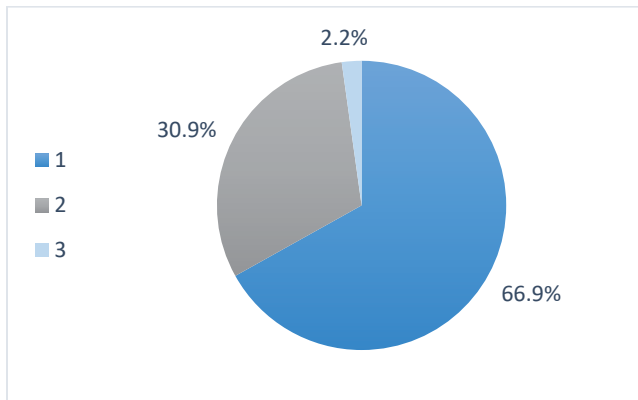


Figure 17: If you are with a dog(s), are you the owner of the dogs? (n=176)

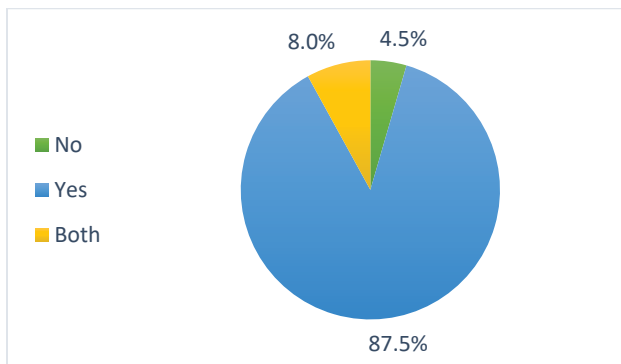
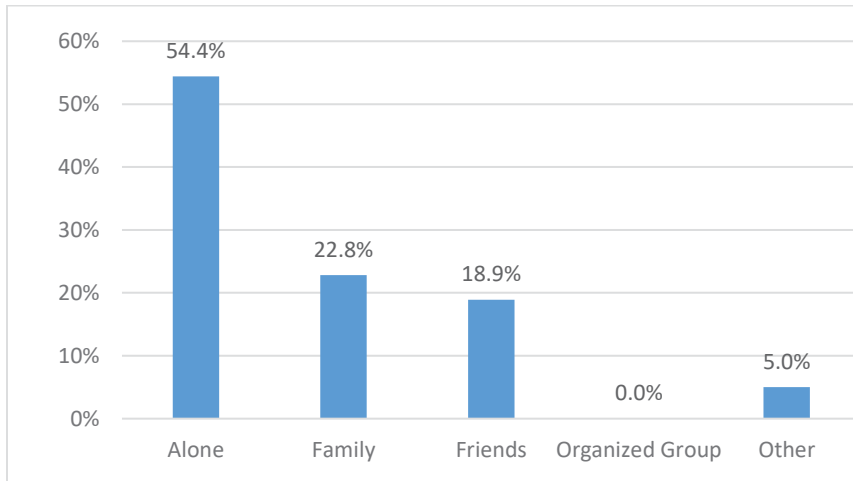


Figure 18: With whom are you visiting the dog park today? (check all that apply) (n=180)



Most common “Other” response is “significant other”

Table 1: Place Attachment

	n	Mean	S.D.
<b>Place Identity</b>		<b>3.86</b>	<b>.244</b>
This dog park means a lot to me	179	4.13	.711
I am very attached to this dog park	177	3.81	.829
I identify strongly with this dog park	176	3.65	.834
<b>Place Dependence</b>		<b>3.72</b>	<b>.127</b>
I enjoy recreating at this dog park more than any other dog park	179	3.80	.789
This dog park is the best place for dogs	178	3.78	.832
I wouldn’t substitute any other dog park for what I do here	178	3.57	.787
<b>Place Bonding</b>		<b>3.77</b>	<b>.293</b>
I have a lot of fond memories about this dog park	178	3.96	.773
I bring my family/friends to this dog park	176	3.91	.788
I have a special connection with the people who come to this dog park	176	3.43	.885

1=Strongly Disagree, 5=Strongly Agree

**Section III: Columbia Parks and Recreation Dog Parks**

Figure 19: Park visitation

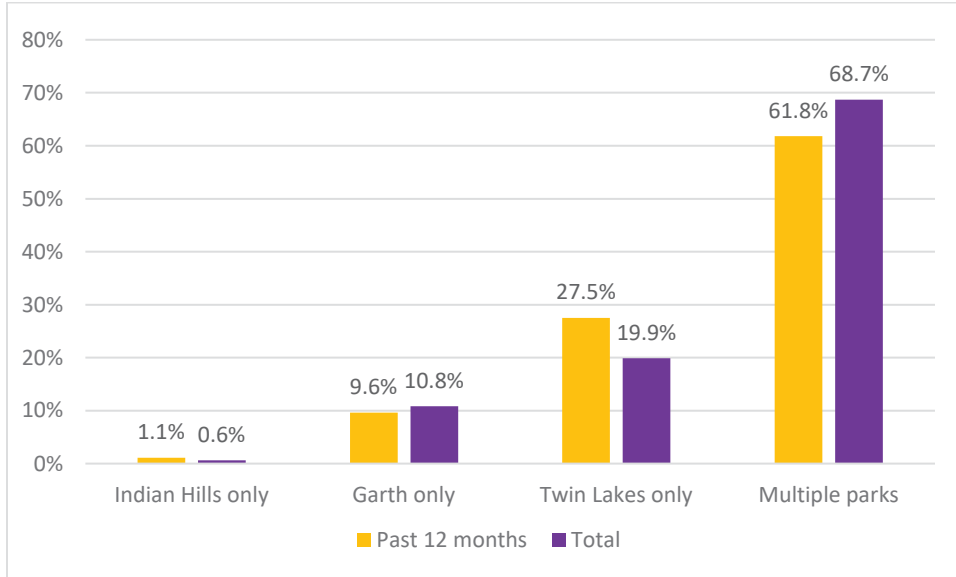


Table 2: Park visitation

	n	Indian Hills only	Garth only	Twin Lakes only	Multiple parks
Past 12 months	178	1.1%	9.6%	27.5%	61.8%
Total	166	0.6%	10.8%	19.9%	68.7%

Figure 20: Average (mean) number of visits to each dog park

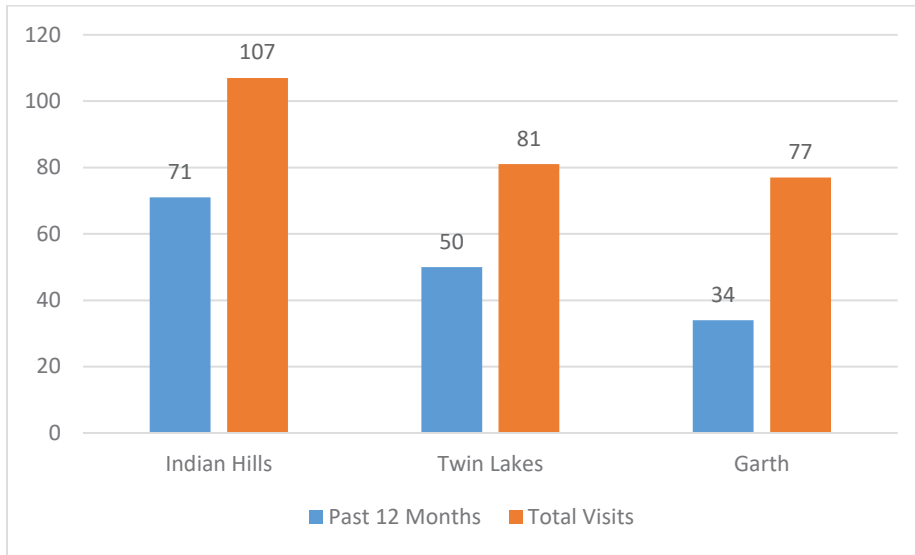


Table 3: Average number of visits to each dog park *over the past 12 months*

	n	Minimum	Maximum	Median	Mean
Indian Hills	40	1	800	5	71
Twin Lakes	155	1	700	15	50
Garth	120	1	300	10	34

“Mean” and “Median” are rounded to the nearest whole number  
 Respondents who indicated they had not visited the dog park were excluded from the analysis.

Table 4: Average number of *total* visits to each dog park

	n	Minimum	Maximum	Median	Mean
Indian Hills	54	1	2100	10	107
Twin Lakes	145	1	1000	25	81
Garth	126	1	900	20	77

“Mean” and “Median” are rounded to the nearest whole number  
 Respondents who indicated they had not visited the dog park were excluded from the analysis

Figure 21: Average (mean) number of *years* coming to each dog park

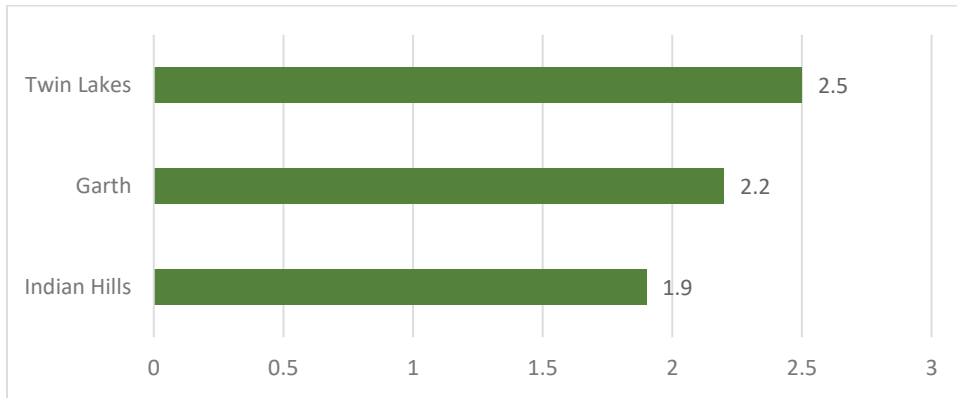


Table 5: Average number of years coming to each dog park

	<b>n</b>	<b>Minimum</b>	<b>Maximum</b>	<b>Median</b>	<b>Mean</b>
Twin Lakes	145	0.1	15	2	2.5
Garth	123	0.3	10	2	2.2
Indian Hills	48	0.5	6	2	1.9

Respondents who indicated they had not visited the dog park were excluded from the analysis



Figure 22: Park visitation per season

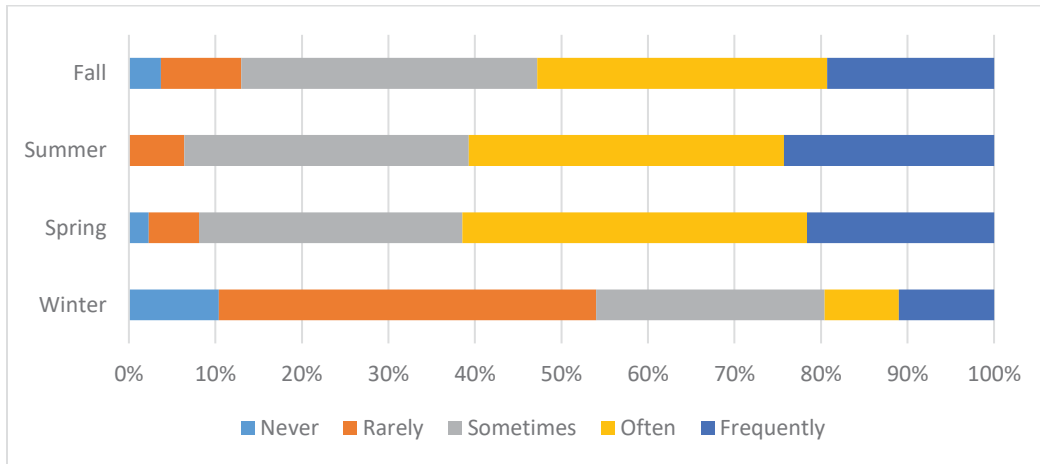


Table 6: Park visitation per season

	n	Never (0)	Rarely (1-4)	Sometimes (5-19)	Often (20-49)	Frequently (50+)
Fall	161	3.7%	9.3%	34.2%	33.5%	19.3%
Summer	173	0.0%	6.4%	32.9%	36.4%	24.3%
Spring	171	2.3%	5.8%	30.4%	39.8%	21.6%
Winter	163	10.4%	43.6%	26.4%	8.6%	11.0%

Figure 23: Weekly visitation times (select all that apply) (n=180)

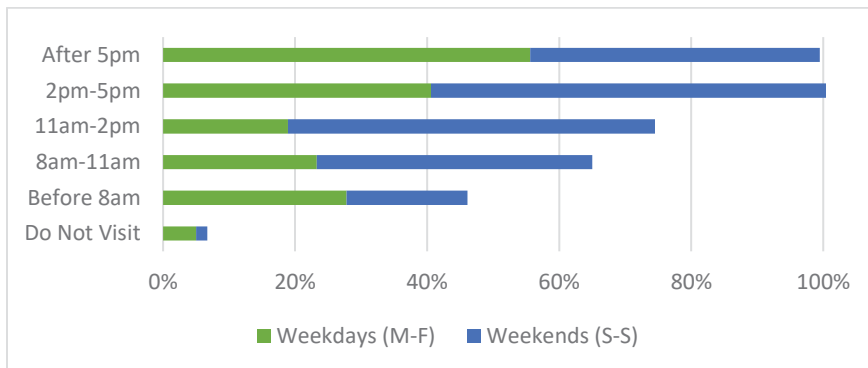
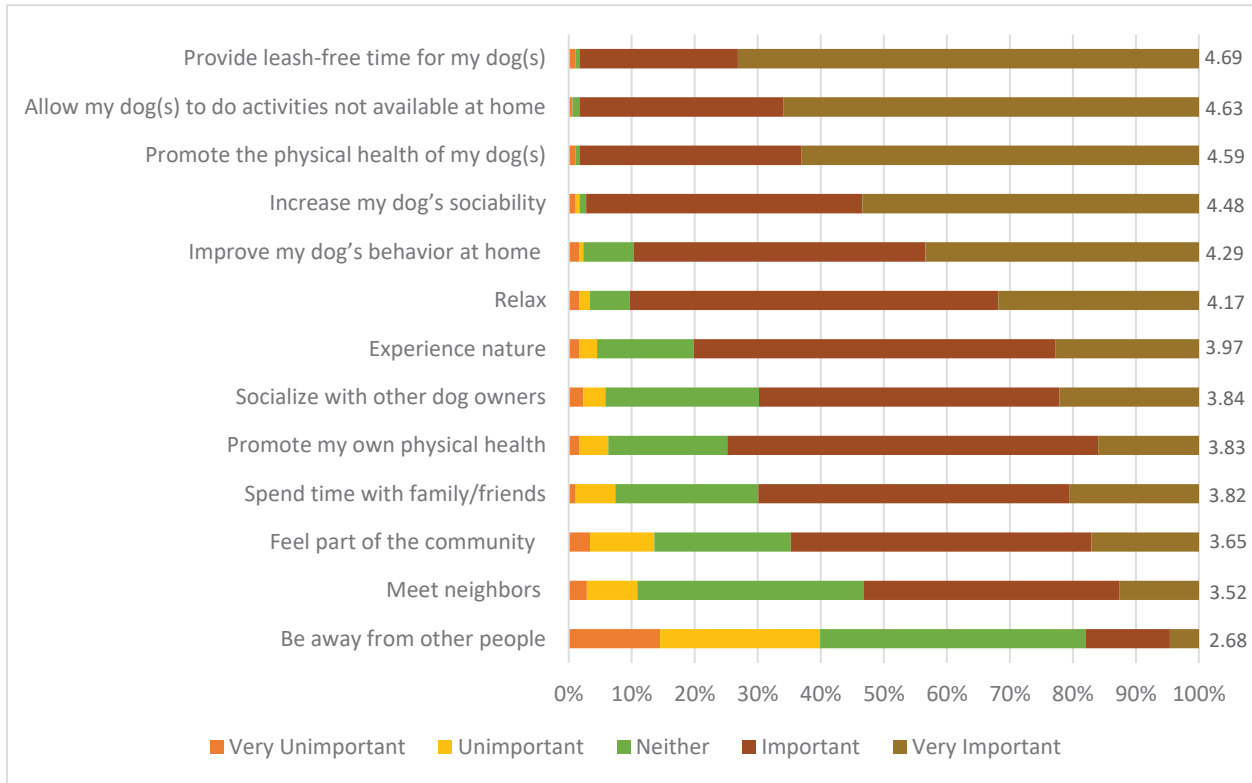


Table 7: Weekly visitation times (select all that apply)

	Do Not Visit	Before 8am	8am-11am	11am-2pm	2pm-5pm	After 5pm
Weekdays (M-F)	5.0%	27.8%	23.3%	18.9%	40.6%	55.6%
Weekends (S-S)	1.7%	18.3%	41.7%	55.6%	61.7%	43.9%

Figure 24: Motivations for choosing a dog park

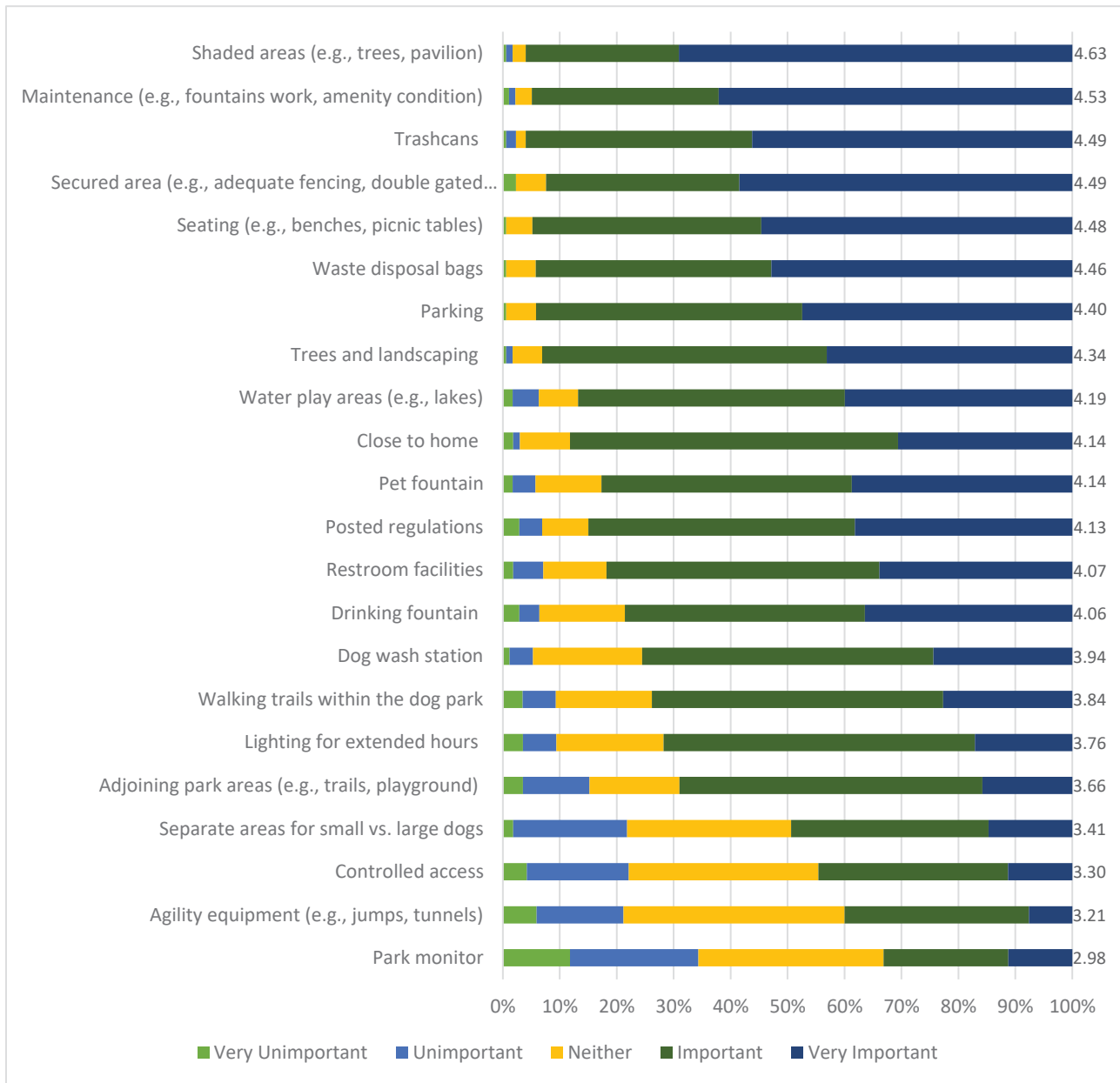


Numbers to the right of the chart represent item mean (M) scores; 1=Very Unimportant, 5=Very Important

Table 8: Motivations for choosing a dog park

	n	Very Unimportant	Unimportant	Neither	Important	Very Important	Mean (S.D.)
Provide leash-free time for my dog(s)	175	1.1%	0.0%	0.6%	25.1%	73.1%	4.69 (.603)
Allow my dog(s) to do activities not available at home	176	0.6%	0.0%	1.1%	32.4%	65.9%	4.63 (.571)
Promote the physical health of my dog(s)	176	1.1%	0.0%	0.6%	35.2%	63.1%	4.59 (.626)
Increase my dog’s sociability	176	1.1%	0.6%	1.1%	43.8%	53.4%	4.48 (.667)
Improve my dog’s behavior at home	175	1.7%	0.6%	8.0%	46.3%	43.4%	4.29 (.781)
Relax	176	1.7%	1.7%	6.3%	58.5%	31.8%	4.17 (.759)
Experience nature	176	1.7%	2.8%	15.3%	57.4%	22.7%	3.97 (.806)
Socialize with other dog owners	172	2.3%	3.5%	24.4%	47.7%	22.1%	3.84 (.890)
Promote my own physical health	175	1.7%	4.6%	18.9%	58.9%	16.0%	3.83 (.812)
Spend time with family/friends	176	1.1%	6.3%	22.7%	49.4%	20.5%	3.82 (.869)
Feel part of the community	176	3.4%	10.2%	21.6%	47.7%	17.0%	3.65 (.992)
Meet neighbors	175	2.9%	8.0%	36.0%	40.6%	12.6%	3.52 (.915)
Be away from other people	173	14.5%	25.4%	42.2%	13.3%	4.6%	2.68 (1.027)

Figure 25: Importance of dog park attributes

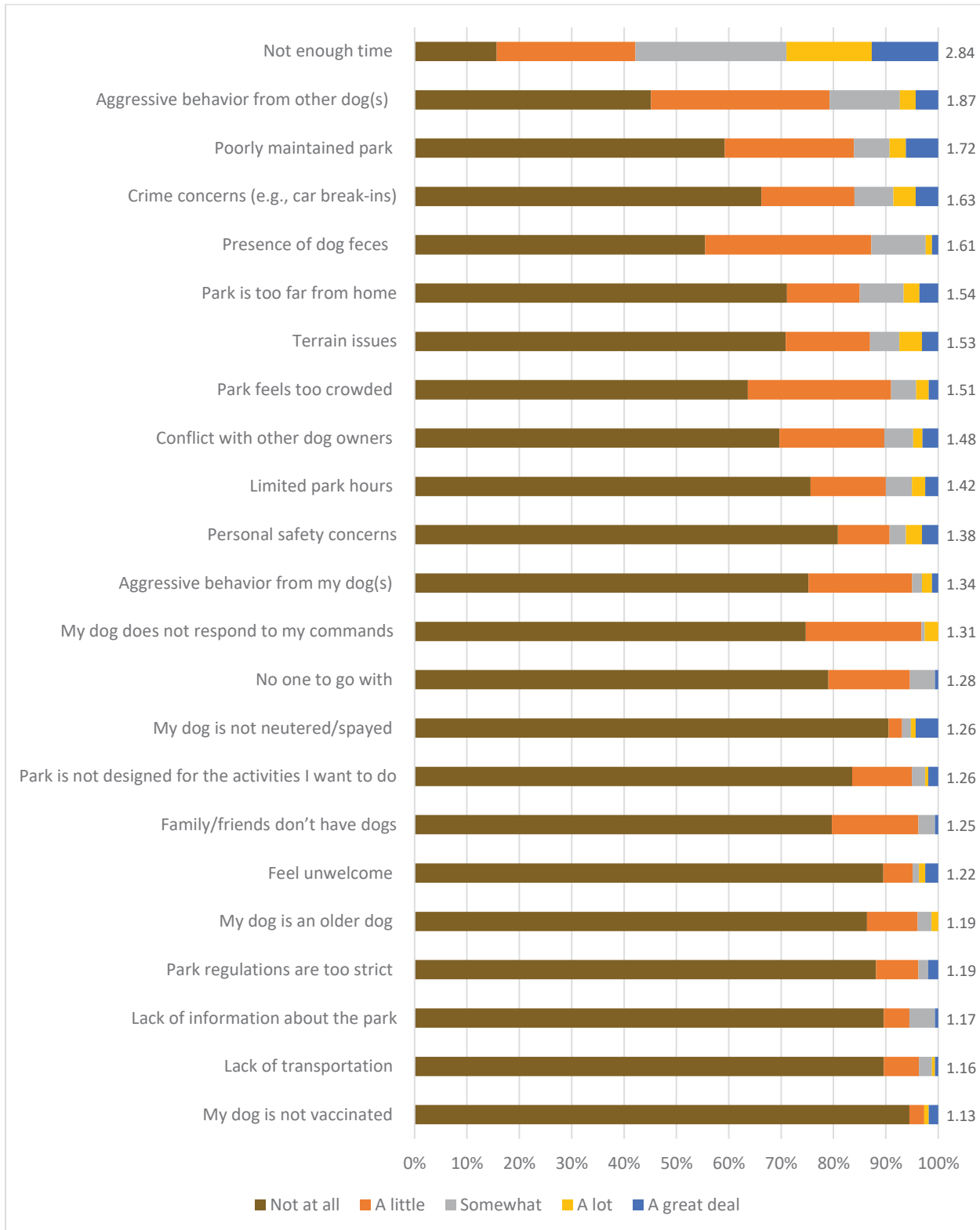


Numbers to the right of the chart represent item mean (M) scores; 1=Very Unimportant, 5=Very Important

Table 9: Importance of dog park attributes

	n	Very Unimportant	Unimportant	Neither	Important	Very Important	Mean (S.D.)
Shaded areas (e.g., trees, pavilion)	175	0.6%	1.1%	2.3%	26.9%	69.1%	4.63 (.647)
Maintenance (e.g., fountains work, amenity condition)	174	1.1%	1.1%	2.9%	32.8%	62.1%	4.53 (.718)
Trashcans	176	0.6%	1.7%	1.7%	39.8%	56.3%	4.49 (.676)
Secured area (e.g., adequate fencing, double gated entrance)	171	2.3%	0.0%	5.3%	33.9%	58.5%	4.49 (.706)
Seating (e.g., benches, picnic tables)	174	0.6%	0.0%	4.6%	40.2%	54.6%	4.48 (.643)
Waste disposal bags	174	0.6%	0.0%	5.2%	41.4%	52.9%	4.46 (.651)
Parking	173	0.6%	0.0%	5.2%	46.8%	47.4%	4.40 (.646)
Trees and landscaping	174	0.6%	1.1%	5.2%	50.0%	43.1%	4.34 (.684)
Water play areas (e.g., lakes)	175	1.7%	4.6%	6.9%	46.9%	40.0%	4.19 (.880)
Close to home	170	1.8%	1.2%	8.8%	57.6%	30.6%	4.14 (.764)
Pet fountain	173	1.7%	4.0%	11.6%	43.9%	38.7%	4.14 (.898)
Posted regulations	173	2.9%	4.0%	8.1%	46.8%	38.2%	4.13 9.934)
Restroom facilities	171	1.8%	5.3%	11.1%	48.0%	33.9%	4.07 (.905)
Drinking fountain	173	2.9%	3.5%	15.0%	42.2%	36.4%	4.06 (.957)
Dog wash station	172	1.2%	4.1%	19.2%	51.2%	24.4%	3.94 (.839)
Walking trails within the dog park	172	3.5%	5.8%	16.9%	51.2%	22.7%	3.84 (.960)
Lighting for extended hours	170	3.5%	5.9%	18.8%	54.7%	17.1%	3.76 (.927)
Adjoining park areas (e.g., trails, playground)	171	3.5%	11.7%	15.8%	53.2%	15.8%	3.66 (.995)
Separate areas for small vs. large dogs	170	1.8%	20.0%	28.8%	34.7%	14.7%	3.41 (1.023)
Controlled access	168	4.2%	17.9%	33.3%	33.3%	11.3%	3.30 (1.024)
Agility equipment (e.g., jumps, tunnels)	170	5.9%	15.3%	38.8%	32.4%	7.6%	3.21 (.990)
Park monitor	169	11.8%	22.5%	32.5%	21.9%	11.2%	2.98 (1.172)

Figure 26: Constraints to visitation



Numbers to the right of the chart represent item mean (M) scores; 1=Not at all, 5=A great deal

Table 10: Constraints to visitation

	n	Not at all	A little	Somewhat	A lot	A great deal	Mean (S.D.)
Not enough time	166	15.7%	26.5%	28.9%	16.3%	12.7%	2.84 (1.242)
Aggressive behavior from other dog(s)	164	45.1%	34.1%	13.4%	3.0%	4.3%	1.87 (1.040)
Poorly maintained park	162	59.3%	24.7%	6.8%	3.1%	6.2%	1.72 (1.127)
Crime concerns (e.g., car break-ins)	163	66.3%	17.8%	7.4%	4.3%	4.3%	1.63 (1.078)
Presence of dog feces	164	55.5%	31.7%	10.4%	1.2%	1.2%	1.61 (.818)
Park is too far from home	166	71.1%	13.9%	8.4%	3.0%	3.6%	1.54 (1.019)
Terrain issues	161	70.8%	16.1%	5.6%	4.3%	3.1%	1.53 (1.000)
Park feels too crowded	168	63.7%	27.4%	4.8%	2.4%	1.8%	1.51 (.841)
Conflict with other dog owners	165	69.7%	20.0%	5.5%	1.8%	3.0%	1.48 (.915)
Limited park hours	160	75.6%	14.4%	5.0%	2.5%	2.5%	1.42 (.894)
Personal safety concerns	162	80.9%	9.9%	3.1%	3.1%	3.1%	1.38 (.926)
Aggressive behavior from my dog(s)	162	75.3%	19.8%	1.9%	1.9%	1.2%	1.34 (.724)
My dog does not respond to my commands	154	74.7%	22.1%	0.6%	2.6%	0.0%	1.31 (.621)
No one to go with	167	79.0%	15.6%	4.8%	0.0%	0.6%	1.28 (.608)
Park is not designed for the activities I want to do	158	83.5%	11.4%	2.5%	0.6%	1.9%	1.26 (.715)
My dog is not neutered/spayed	116	90.5%	2.6%	1.7%	0.9%	4.3%	1.26 (.896)
Family/friends don’t have dogs	158	79.7%	16.5%	3.2%	0.0%	0.6%	1.25 (.575)
Feel unwelcome	162	89.5%	5.6%	1.2%	1.2%	2.5%	1.22 (.754)
Park regulations are too strict	161	88.2%	8.1%	1.9%	0.0%	1.9%	1.19 (.647)
My dog is an older dog	154	86.4%	9.7%	2.6%	1.3%	0.0%	1.19 (.533)
Lack of information about the park	162	89.5%	4.9%	4.9%	0.0%	0.6%	1.17 (.564)
Lack of transportation	163	89.6%	6.7%	2.5%	0.6%	0.6%	1.16 (.543)
My dog is not vaccinated	109	94.5%	2.8%	0.0%	0.9%	1.8%	1.13 (.625)

**Section IV: Fees in Dog Parks**

Figure 27: What would you consider a fair annual price for using Columbia Parks & Recreation dog parks? (n=174)

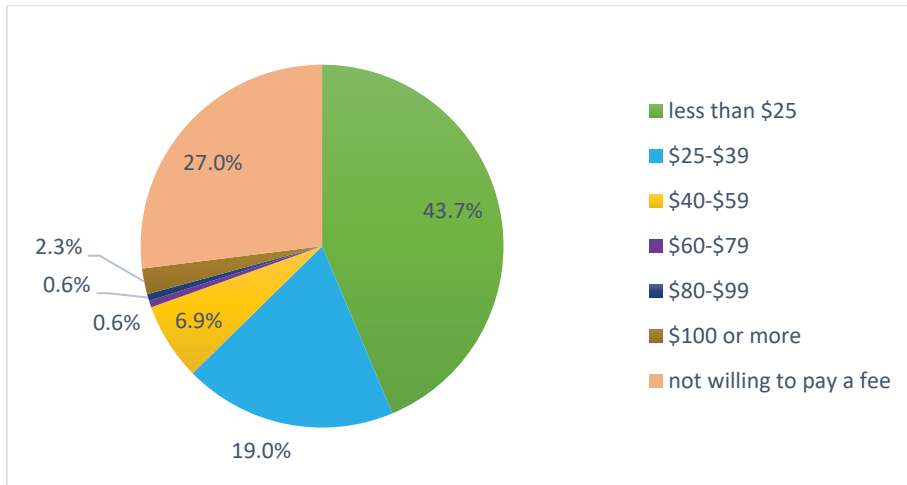
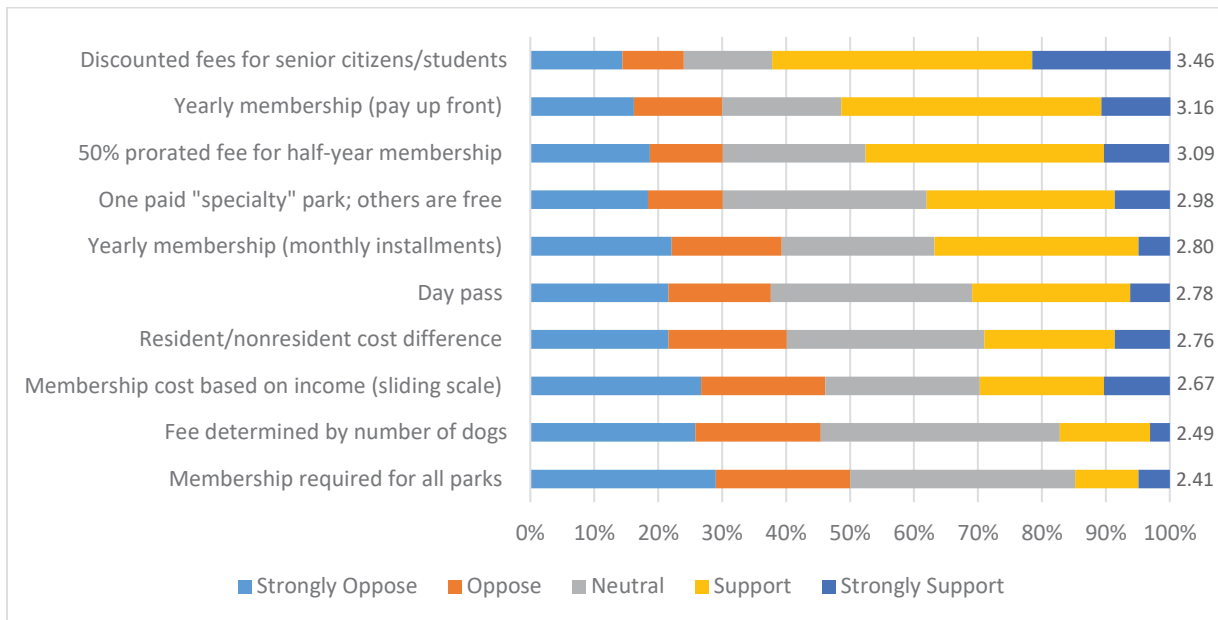


Figure 28: To what extent would you support or oppose the following fee structures?



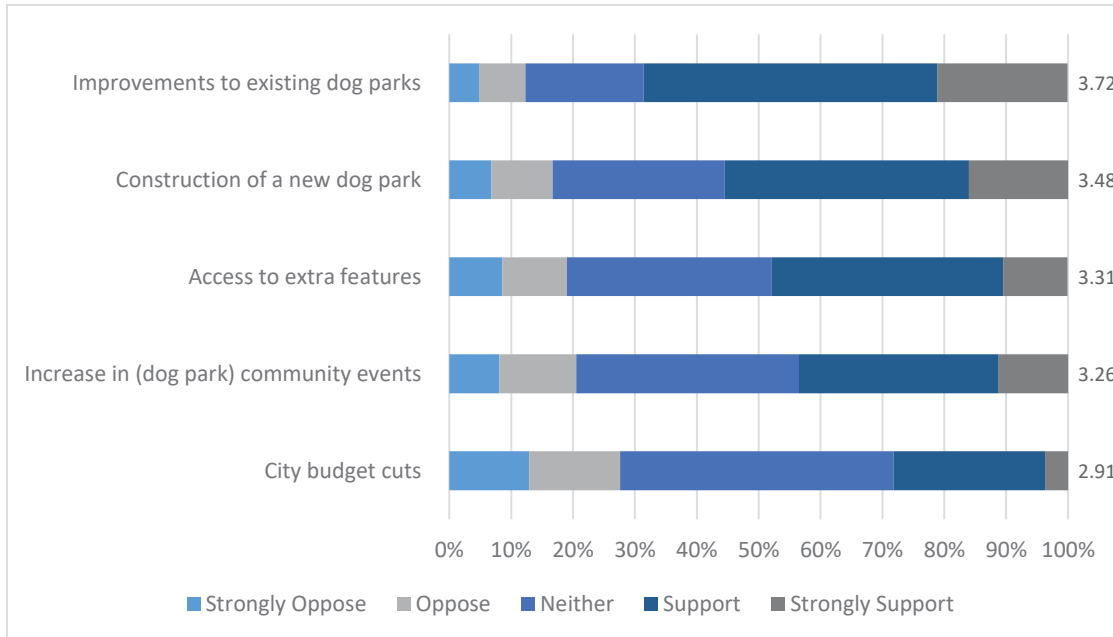
Numbers to the right of the chart represent item mean (M) scores; 1= Strongly Oppose, 5= Strongly Support

Table 11: To what extent would you support or oppose the following fee structures?

	n	Strongly Oppose	Oppose	Neutral	Support	Strongly Support	Mean (S.D.)
Discounted fees for senior citizens/students	167	14.4%	9.6%	13.8%	40.7%	21.6%	3.46 (1.267)
Yearly membership (pay up front)	167	16.2%	13.8%	18.6%	40.7%	10.8%	3.16 (1.242)
50% prorated fee for half-year membership	166	18.7%	11.4%	22.3%	37.3%	10.2%	3.09 (1.331)
One paid "specialty" park; others are free	163	18.4%	11.7%	31.9%	29.4%	8.6%	2.98 (1.283)
Yearly membership (monthly installments)	163	22.1%	17.2%	23.9%	31.9%	4.9%	2.80 (1.320)
Day pass	162	21.6%	16.0%	31.5%	24.7%	6.2%	2.78 (1.216)
Resident/nonresident cost difference	162	21.6%	18.5%	30.9%	20.4%	8.6%	2.76 (1.245)
Membership cost based on income (sliding scale)	165	26.7%	19.4%	24.2%	19.4%	10.3%	2.67 (1.275)
Fee determined by number of dogs	163	25.8%	19.6%	37.4%	14.1%	3.1%	2.49 (1.151)
Membership required for all parks	162	29.0%	21.0%	35.2%	9.9%	4.9%	2.41 (1.113)



Figure 29: For each of the following circumstances, to what extent would you support or oppose paying a \$25 fee for using Columbia Parks & Recreation dog parks?

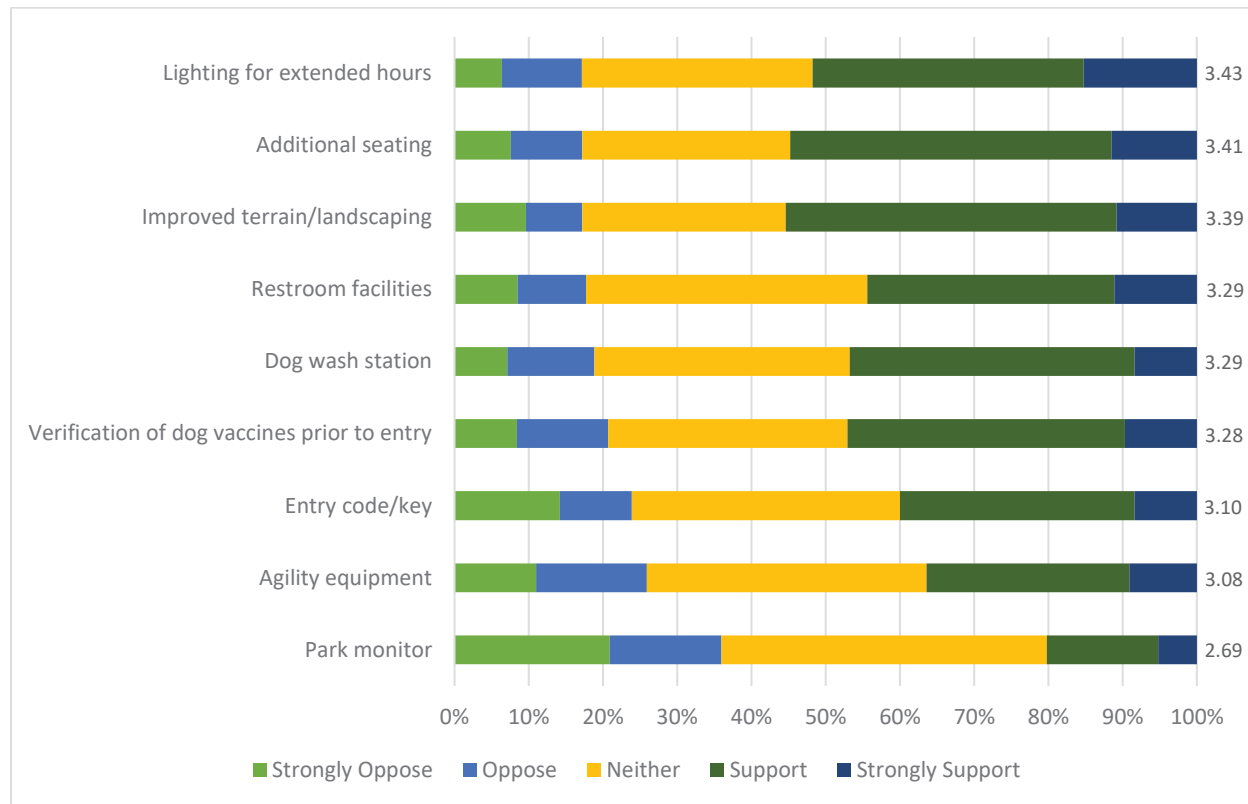


Numbers to the right of the chart represent item mean (M) scores; 1= Strongly Oppose, 5= Strongly Support

Table 12: For each of the following circumstances, to what extent would you support or oppose paying a \$25 fee for using Columbia Parks & Recreation dog parks?

	n	Strongly Oppose	Oppose	Neutral	Support	Strongly Support	Mean (S.D.)
Improvements to existing dog parks	162	4.9%	7.4%	19.1%	47.5%	21.0%	3.72 (1.035)
Construction of a new dog park	162	6.8%	9.9%	27.8%	39.5%	16.0%	3.48 (1.088)
Access to extra features	163	8.6%	10.4%	33.1%	37.4%	10.4%	3.31 (1.073)
Increase in (dog park) community events	161	8.1%	12.4%	36.0%	32.3%	11.2%	3.26 (1.075)
City budget cuts	163	12.9%	14.7%	44.2%	24.5%	3.7%	2.91 (1.027)

Figure 30: To what extent would you support or oppose paying a \$25 fee for using Columbia Parks & Recreation dog parks in exchange for the following features?



Numbers to the right of the chart represent item mean (M) scores; 1= Strongly Oppose, 5= Strongly Support

Table 13: To what extent would you support or oppose paying a \$25 fee for using Columbia Parks & Recreation dog parks in exchange for the following features?

	n	Strongly Oppose	Oppose	Neither	Support	Strongly Support	Mean (S.D.)
Lighting for extended hours	157	6.4%	10.8%	31.2%	36.6%	15.3%	3.43 (1.076)
Additional Seating	154	7.6%	9.6%	28.0%	43.3%	11.5%	3.41 (1.062)
Improved Terrain/landscaping	157	9.6%	7.6%	27.4%	44.6%	10.8%	3.39 (1.091)
Dog wash station	154	7.1%	11.7%	34.4%	38.3%	8.4%	3.29 (1.022)
Restroom Facilities	153	8.5%	9.2%	37.9%	33.3%	11.1%	3.29 (1.063)
Verification of dog vaccines prior to entry	155	8.4%	12.3%	32.3%	37.4%	9.7%	3.28 (1.072)
Entry Code/key	155	14.2%	9.7%	36.1%	31.6%	8.4%	3.10 (1.146)
Agility Equipment	154	11.0%	14.9%	37.7%	27.3%	9.1%	3.08 (1.108)
Park Monitor	153	20.9%	15.0%	43.8%	15.0%	5.2%	2.69 (1.121)

**Appendix C**  
**Brief Report (Indian Hills)**

**Columbia Parks and Recreation Dog Park Study**  
**Brief Report: Indian Hills Dog Park**

Lily Bennett  
Sonja Wilhelm Stanis, PhD



**School of Natural Resources**  
University of Missouri

This brief report presents a summary of the onsite visitor survey data collected from Indian Hills Dog Park May-August 2018 (Response rate 85%; n=17)

**Section I: Respondent Profile (Indian Hills)**

Figure 1: Respondent gender (n=17)

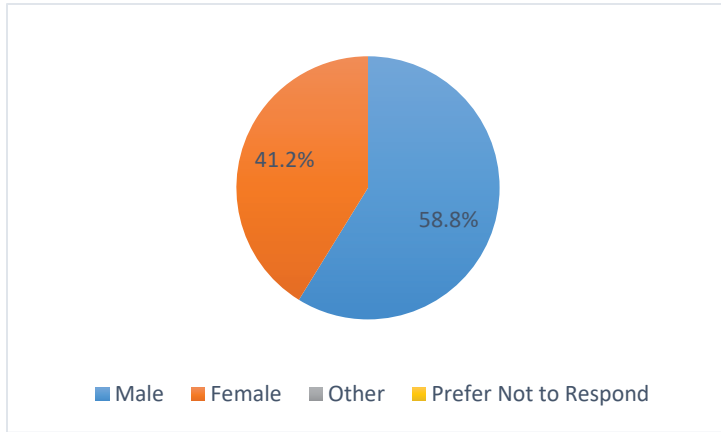


Figure 2: Respondent age groups (n=17)

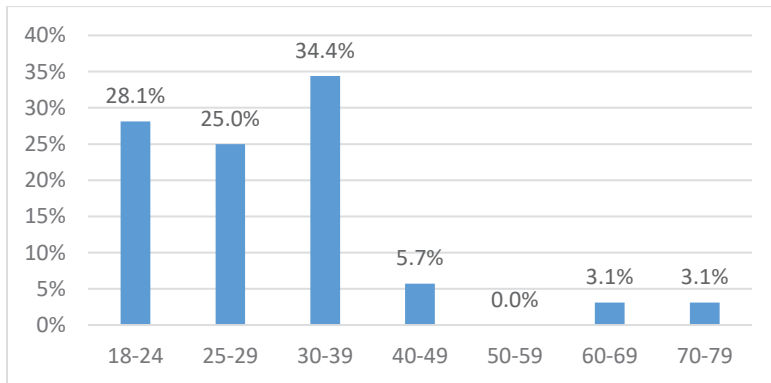


Figure 3: Annual household income before taxes (n=16)

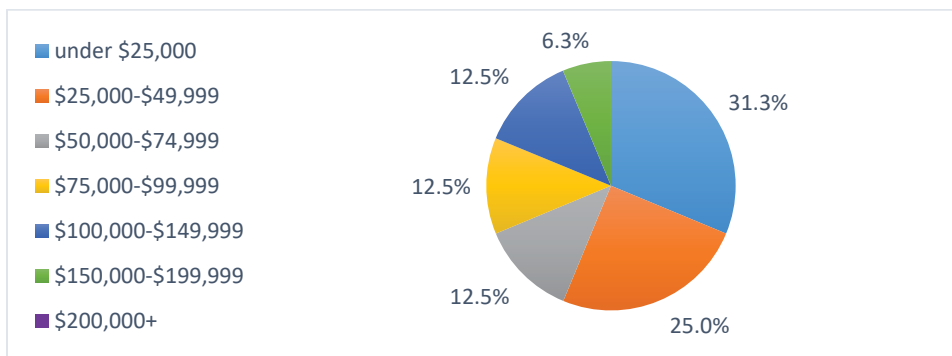


Figure 4: Number of children under 18 in household (n=14)

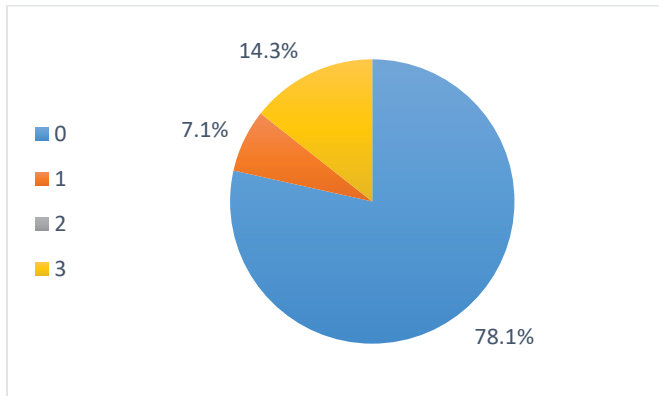


Figure 5: Number of dogs owned (n=16)

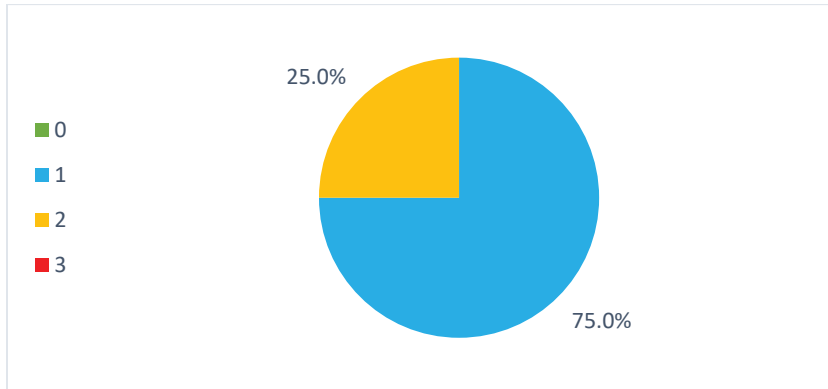


Figure 6: Residence type (n=17)

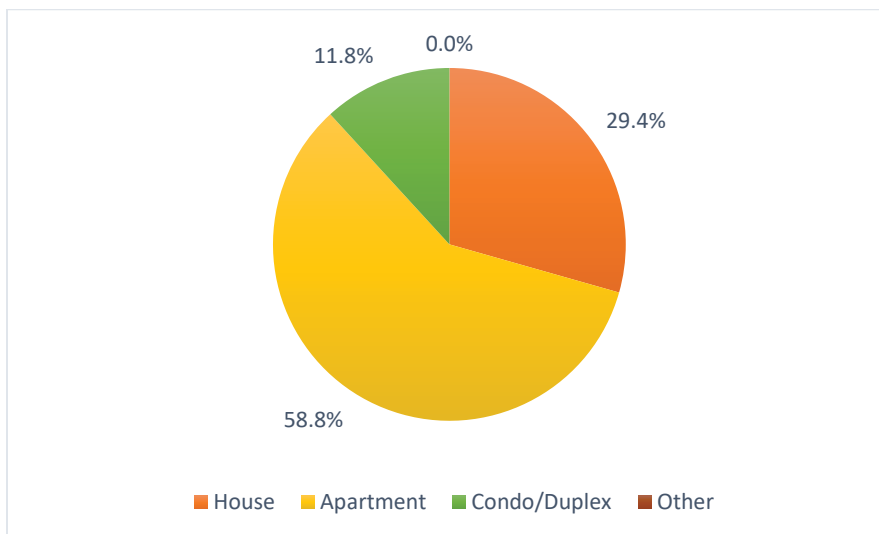


Figure 7: Does your residence have a fenced area for dogs? (n=17)

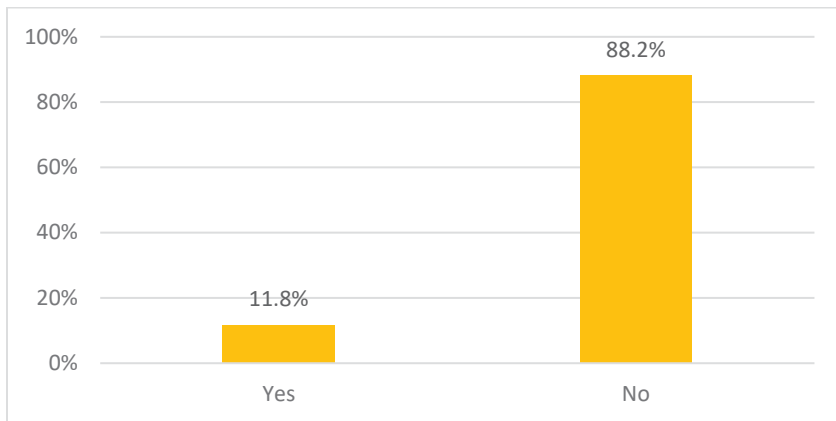
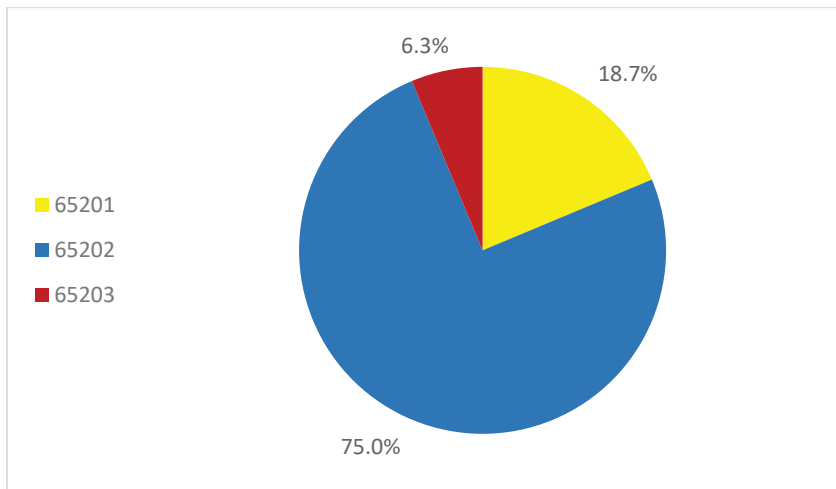


Figure 8: What is your zip code? (n=16)



**Section II: Usage and Today's Visit**

Figure 9: Transportation to the dog park (n=17)

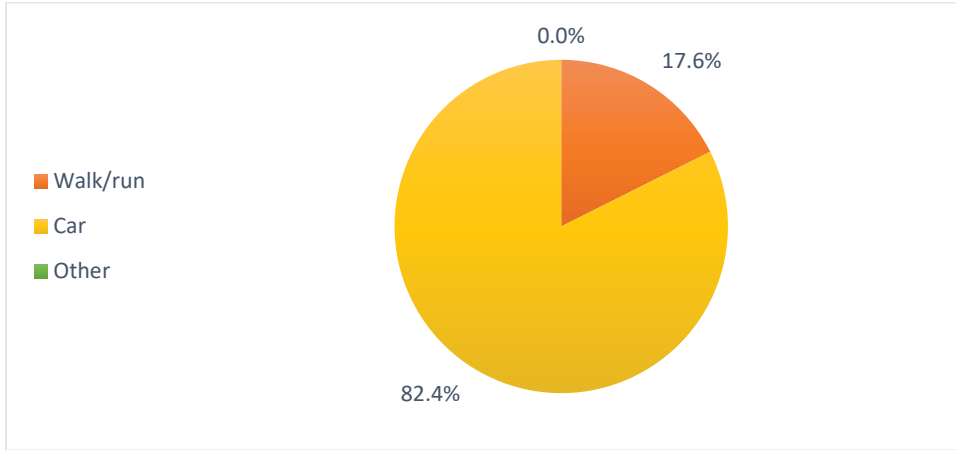


Figure 10: Travel time (minutes) (n=17)

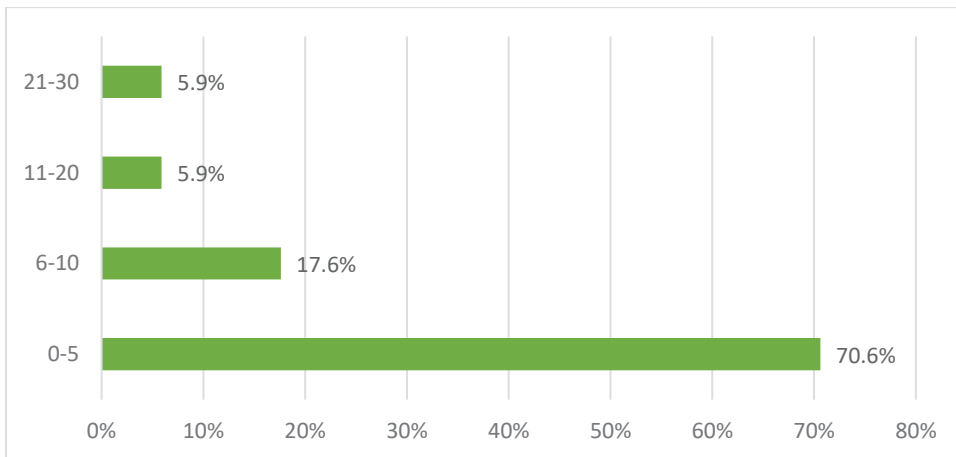




Figure 11: Miles traveled to dog park (n=17)

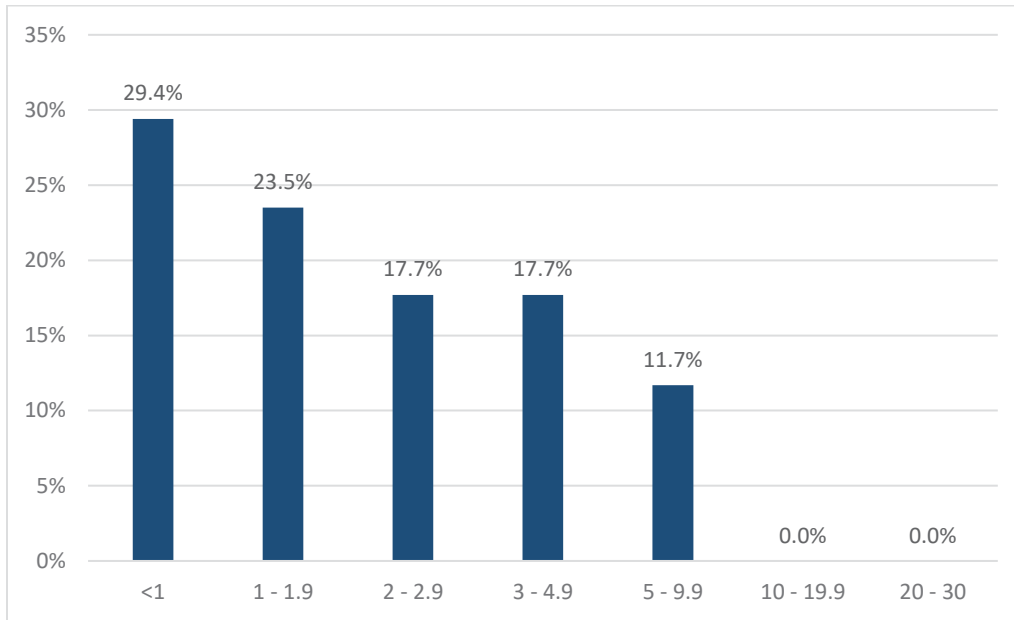


Figure 12: Length of stay at the dog park (minutes) (n=16)

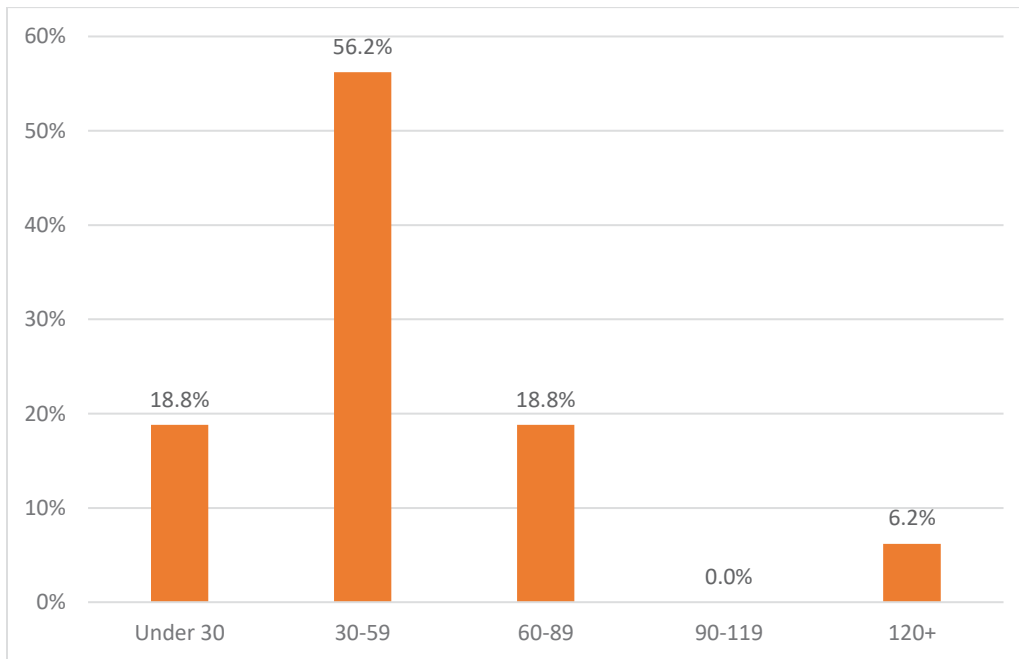


Figure 13: Are you here with dog(s) today? (n=17)

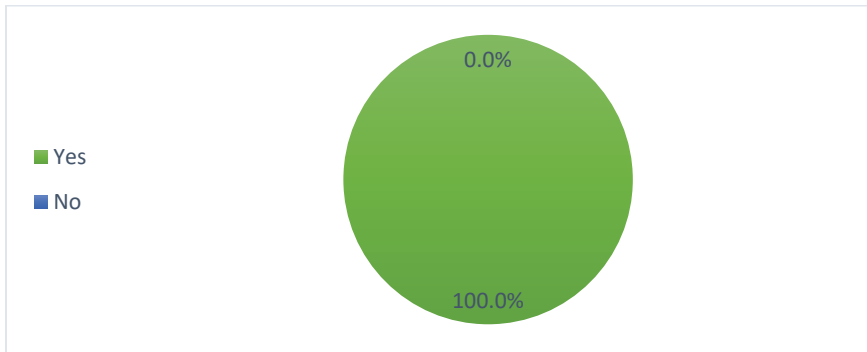


Figure 14: If you are with a dog(s), then how many dog(s) are you here with today? (n=17)

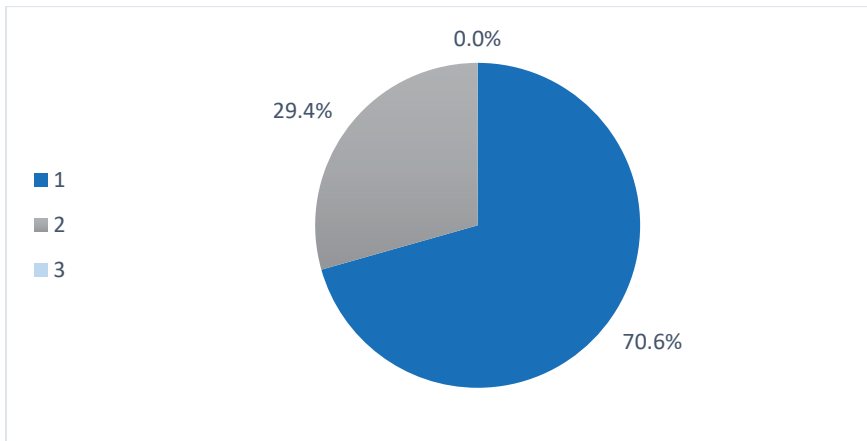


Figure 15: If you are with a dog(s), are you the owner of the dog(s)? (n=17)

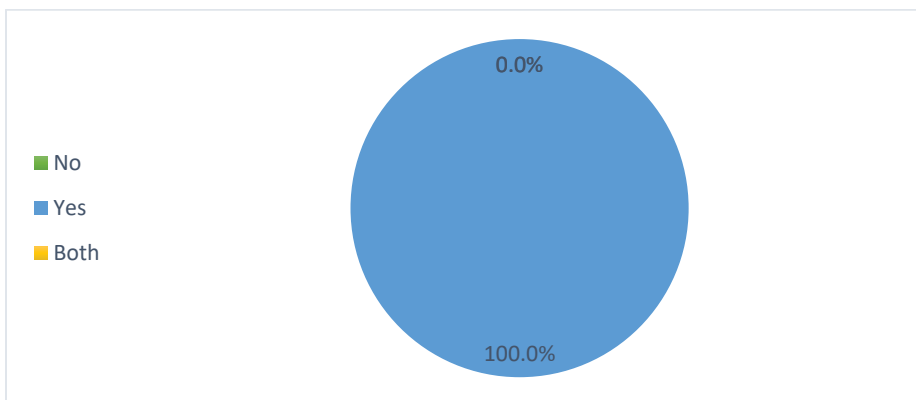
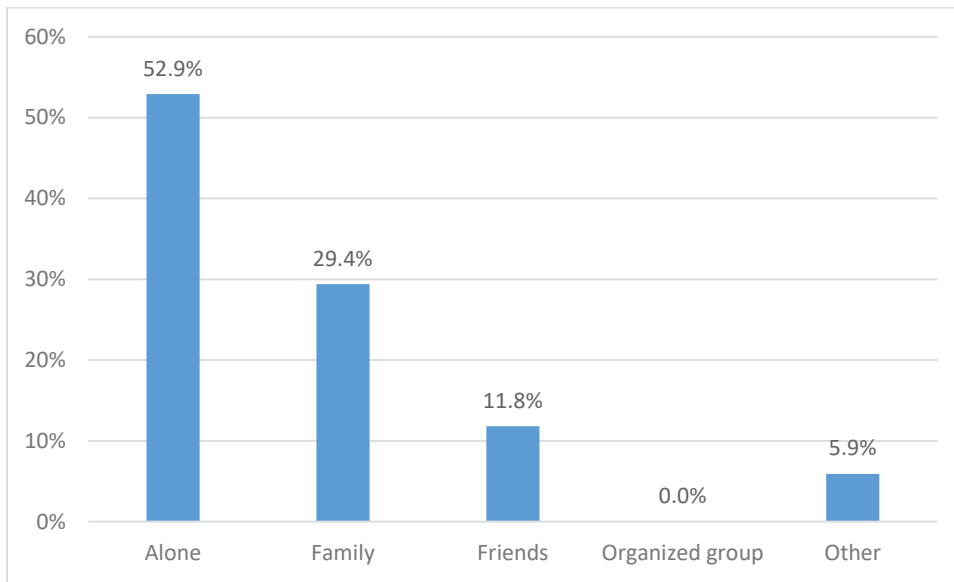


Figure 16: With whom are you visiting the dog park today? (check all that apply) (n=17)



Most common “Other” response is “significant other”

Table 1: Place Attachment

	n	Mean	S.D.
<b>Place Identity</b>		<b>3.64</b>	<b>.377</b>
This dog park means a lot to me	16	4.06	.574
I identify strongly with this dog park	15	3.53	.990
I am very attached to this dog park	15	3.33	.816
<b>Place Bonding</b>		<b>3.45</b>	<b>.127</b>
I have a lot of fond memories about this dog park	16	3.50	.816
I bring my family/friends to this dog park	15	3.47	.743
I have a special connection with the people who come to this dog park	16	3.38	.957
<b>Place Dependence</b>		<b>3.30</b>	<b>.430</b>
This dog park is the best place for dogs	15	3.60	.828
I enjoy recreating at this dog park more than any other dog park	16	3.50	1.033
I wouldn’t substitute any other dog park for what I do here	16	2.81	.750

1=Strongly Disagree, 5=Strongly Agree

**Section III: Columbia Parks and Recreation Dog Parks**

Figure 17: Park visitation

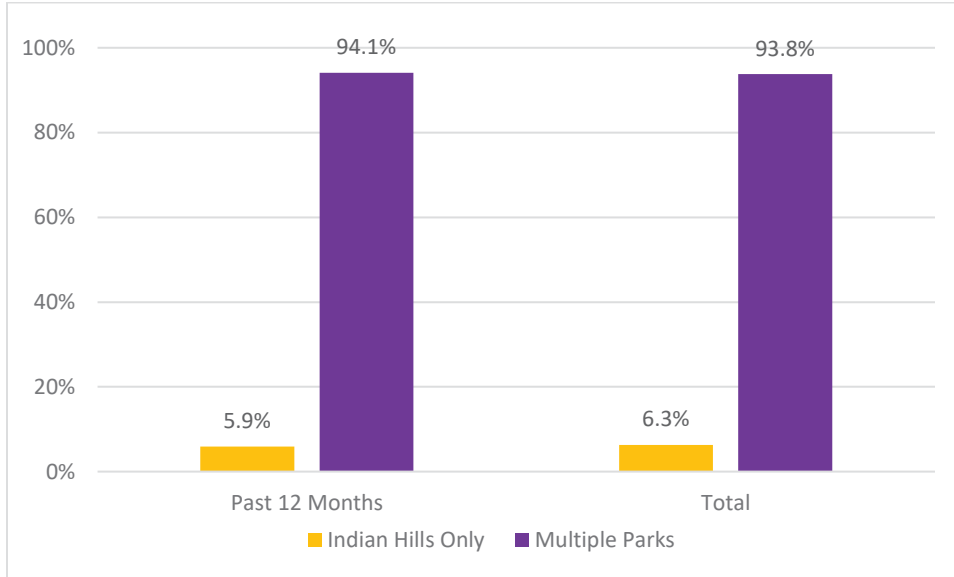


Table 2: Park visitation

	n	Indian Hills only	Multiple Parks
Past 12 Months	17	5.9%	6.3%
Total	16	94.1%	93.8%

Figure 18: Average (mean) number of visits to each dog park

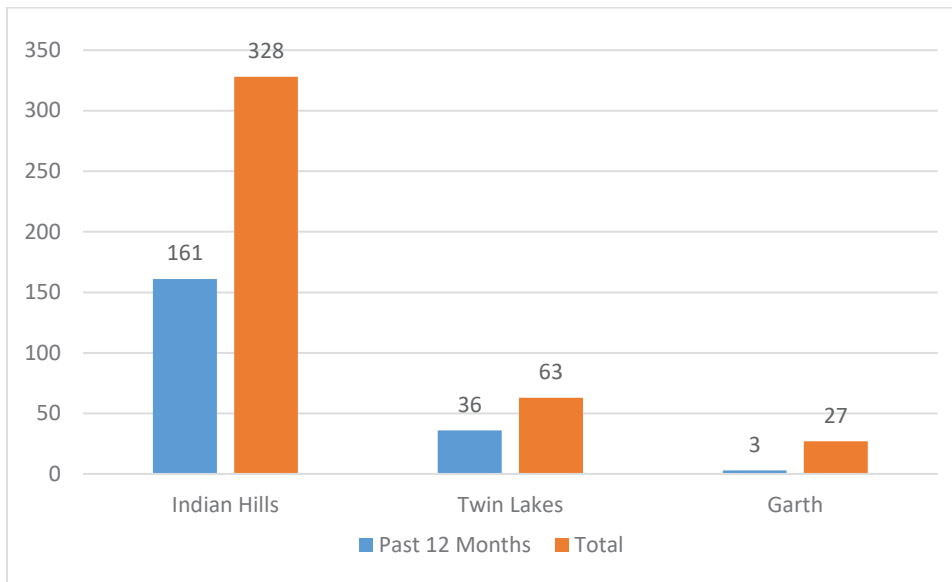


Table 3: Average number of visits to each dog park *over the past 12 months*

	n	Minimum	Maximum	Median	Mean
Indian Hills	17	1	800	30	161
Twin Lakes	13	1	200	12	36
Garth	10	1	8	2	3

“Mean” and “Median” are rounded to the nearest whole number  
 Respondents who indicated they had not visited the dog park were excluded from the analysis.

Table 4: Average number of *total* visits to each dog park

	n	Minimum	Maximum	Median	Mean
Indian Hills	16	1	2100	30	328
Twin Lakes	13	1	350	20	63
Garth	10	1	250	2	27

“Mean” and “Median” are rounded to the nearest whole number  
 Respondents who indicated they had not visited the dog park were excluded from the analysis.

Figure 19: Average number of *years* coming to each dog park

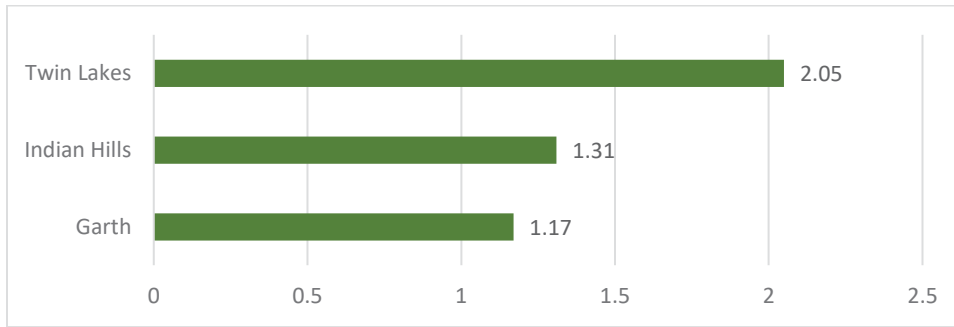


Table 5: Average number of years coming to each dog park

	n	Minimum	Maximum	Median	Mean
Twin Lakes	13	0.1	6	1	2.05
Indian Hills	13	1	3	1	1.31
Garth	9	0.5	3	1	1.17

Respondents who indicated they had not visited the dog park were excluded from the analysis

Figure 20: Park visitation per season

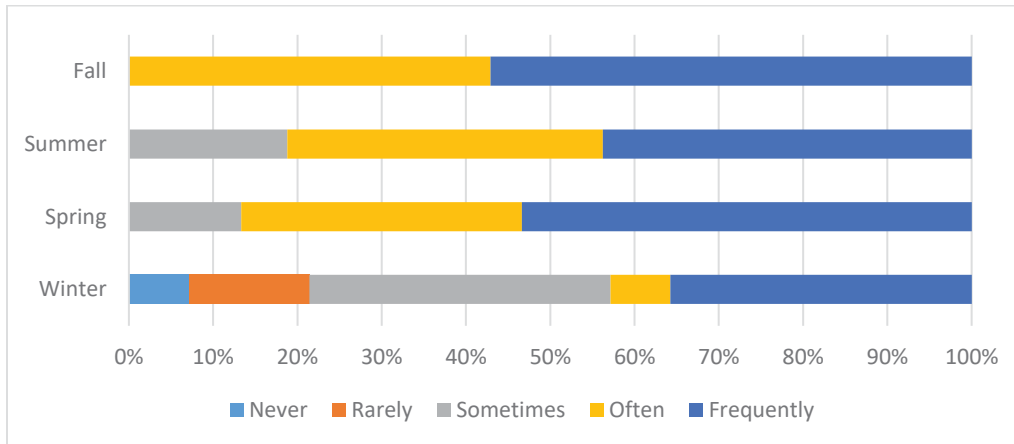


Table 6: Park visitation per season

	n	Never (0)	Rarely (1-4)	Sometimes (5-19)	Often (20-49)	Frequently (50+)
Fall	14	0.0%	0.0%	0.0%	42.9%	57.1%
Summer	16	0.0%	0.0%	18.8%	37.5%	43.8%
Spring	15	0.0%	0.0%	13.3%	33.3%	53.3%
Winter	14	7.1%	14.3%	35.7%	7.1%	35.7%

Figure 21: Weekly visitation times (select all that apply) (n=17)

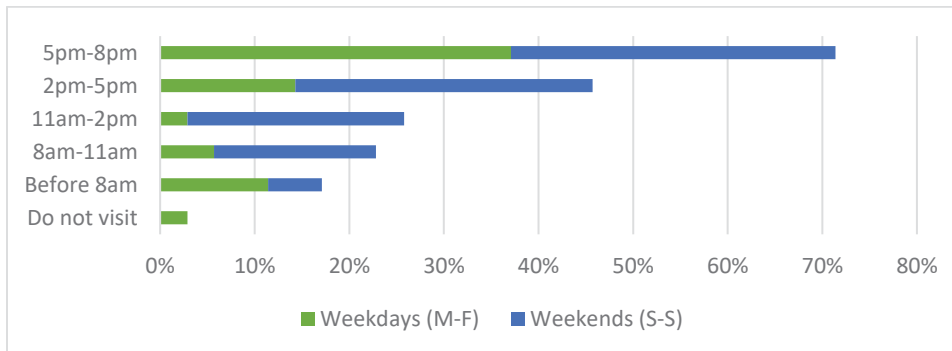
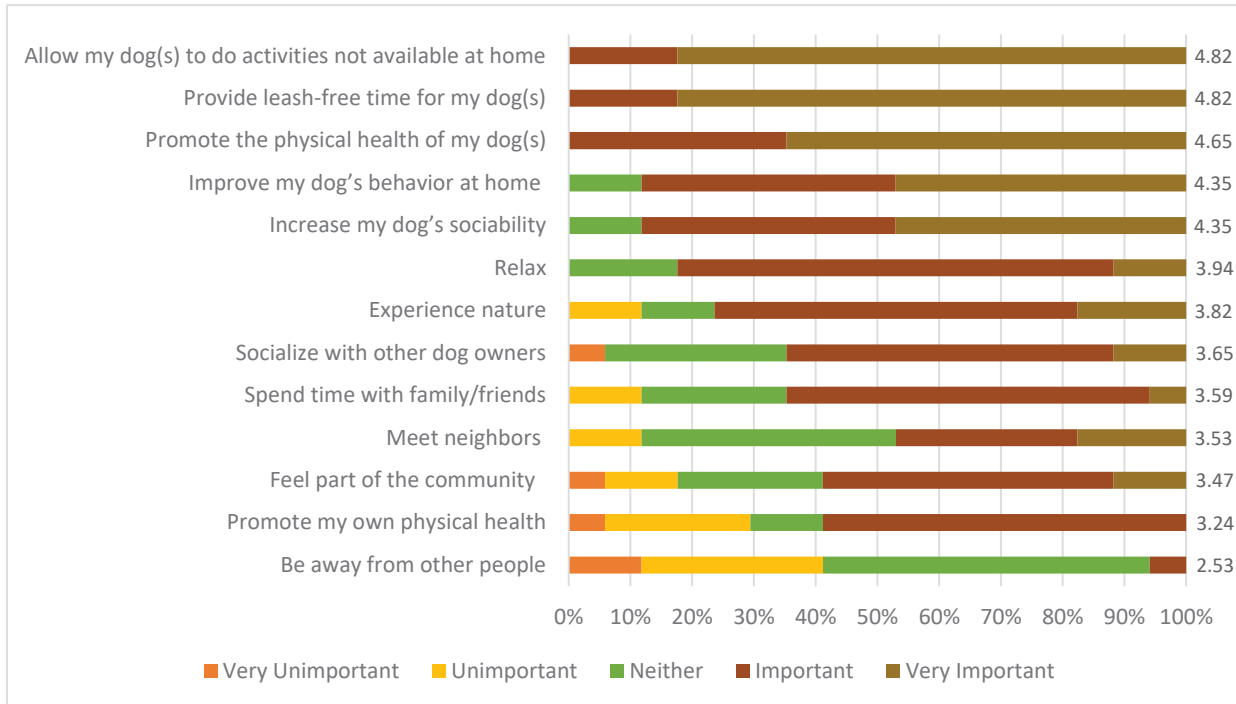


Table 7: Weekly visitation times (select all that apply) (n=17)

	Do not visit	Before 8am	8am-11am	11am-2pm	2pm-5pm	5pm-8pm
Weekdays (M-F)	2.9%	11.4%	5.7%	2.9%	14.3%	37.1%
Weekends (S-S)	0.0%	5.7%	17.1%	22.9%	31.4%	34.3%

Figure 22: Motivations for choosing a dog park (n=17)



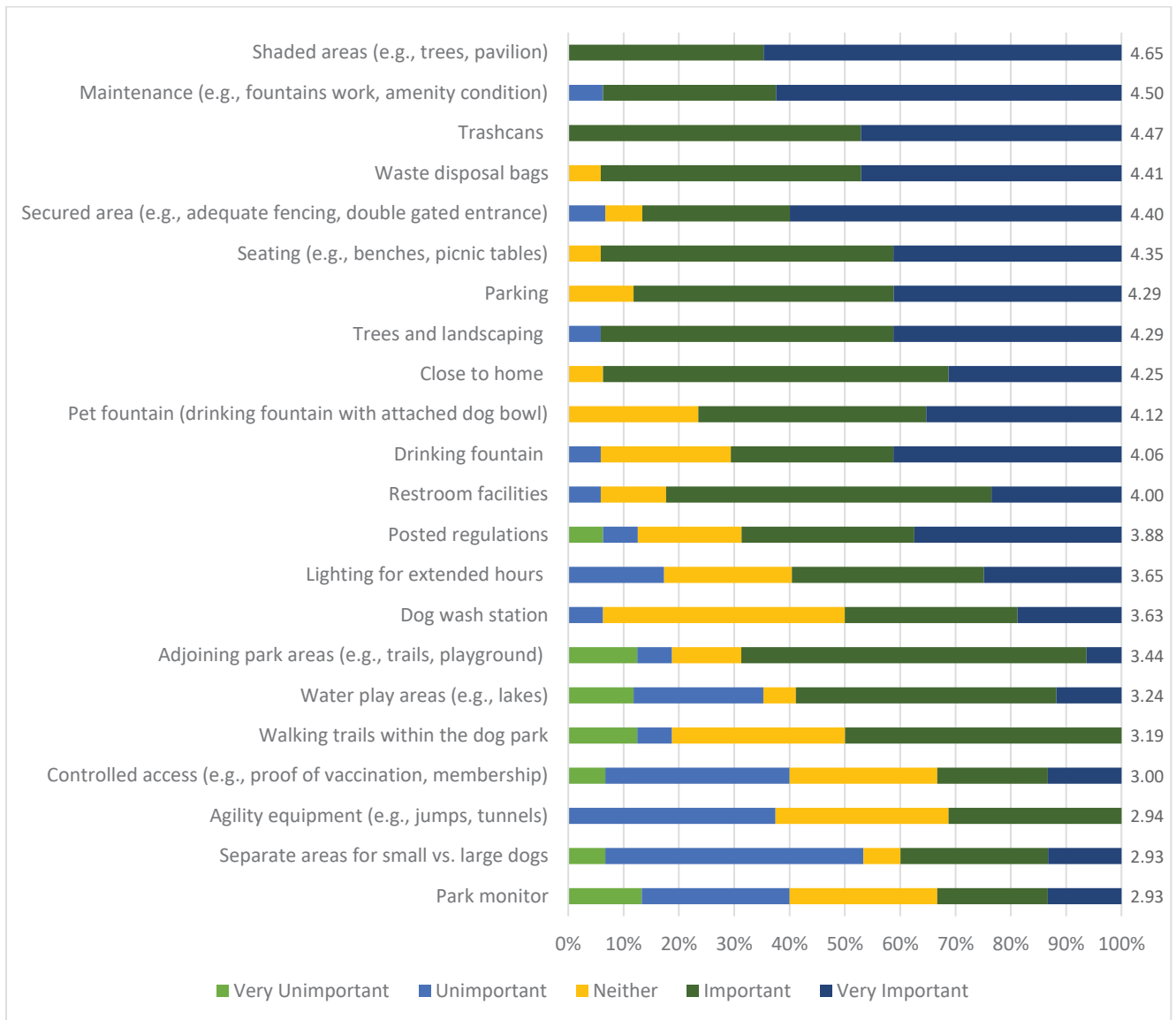
Numbers to the right of the chart represent item mean (M) scores; 1=Very Unimportant, 5=Very Important

Table 8: Motivations for choosing a dog park (n=17)

	Very Unimportant	Unimportant	Neither	Important	Very Important	Mean (S.D.)
Provide leash-free time for my dog(s)	0.0%	0.0%	0.0%	17.6%	82.4%	4.82 (1.068)
Allow my dog(s) to do activities not available at home	0.0%	0.0%	0.0%	17.6%	82.4%	4.82 (.556)
Promote the physical health of my dog(s)	0.0%	0.0%	0.0%	35.3%	64.7%	4.65 (.795)
Increase my dog’s sociability	0.0%	0.0%	11.8%	41.2%	47.1%	4.35 (.883)
Improve my dog’s behavior at home	0.0%	0.0%	11.8%	41.2%	47.1%	4.35 (.931)
Relax	0.0%	0.0%	17.6%	70.6%	11.8%	3.94 (1.033)
Experience nature	0.0%	11.8%	11.8%	58.8%	17.6%	3.82 (.493)
Socialize with other dog owners	5.9%	0.0%	29.4%	52.9%	11.8%	3.65 (.702)
Spend time with family/friends	0.0%	11.8%	23.5%	58.8%	5.9%	3.59 (.702)
Meet neighbors	0.0%	11.8%	41.2%	29.4%	17.6%	3.53 (.393)
Feel part of the community	5.9%	11.8%	23.5%	47.1%	11.8%	3.47 (.393)
Promote my own physical health	5.9%	23.5%	11.8%	58.8%	0.0%	3.24 (.943)
Be away from other people	11.8%	29.4%	52.9%	5.9%	0.0%	2.53 (.800)



Figure 23: Importance of dog park attributes

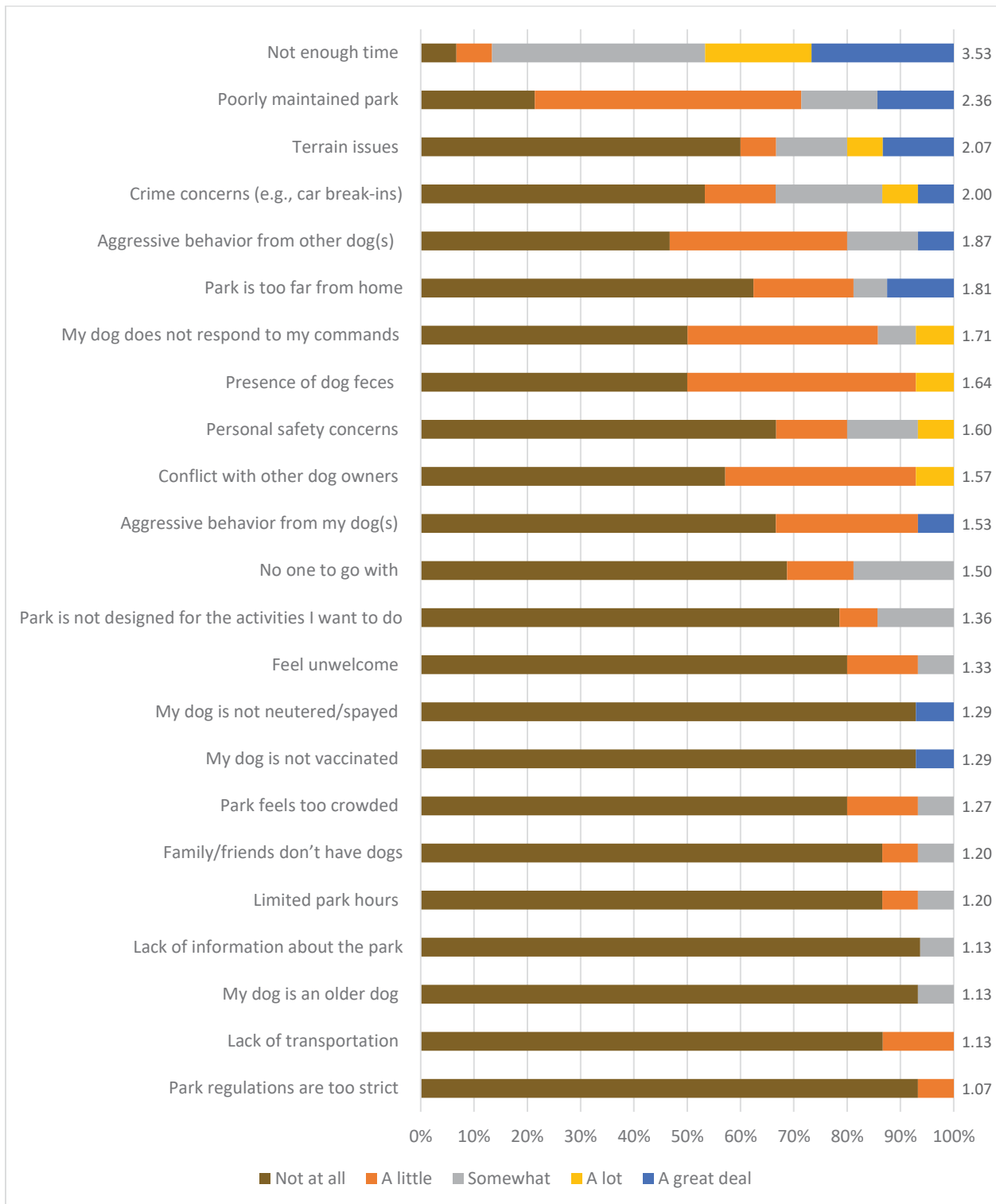


Numbers to the right of the chart represent item mean (M) scores; 1=Very Unimportant, 5=Very Important

Table 9: Importance of dog park attributes

	n	Very Unimportant	Unimportant	Neither	Important	Very Important	Mean (S.D.)
Shaded areas (e.g., trees, pavilion)	17	0.0%	0.0%	0.0%	35.3%	64.7%	4.65 (.493)
Maintenance (e.g., fountains work, amenity condition)	16	0.0%	6.3%	0.0%	31.3%	62.5%	4.50 (.816)
Trashcans	17	0.0%	0.0%	0.0%	52.9%	47.1%	4.47 (.514)
Waste disposal bags	17	0.0%	0.0%	5.9%	47.1%	47.1%	4.41 (.618)
Secured area (e.g., adequate fencing, double gated entrance)	15	0.0%	6.7%	6.7%	26.7%	60.0%	4.40 (.910)
Seating (e.g., benches, picnic tables)	17	0.0%	0.0%	5.9%	52.9%	41.2%	4.35 (.606)
Trees and landscaping	17	0.0%	5.9%	0.0%	52.9%	41.2%	4.29 (.772)
Parking	17	0.0%	0.0%	11.8%	47.1%	41.2%	4.29 (.686)
Close to home	16	0.0%	0.0%	6.3%	62.5%	31.3%	4.25 (.577)
Pet fountain (drinking fountain with attached dog bowl)	17	0.0%	0.0%	23.5%	41.2%	35.3%	4.12 (.781)
Drinking fountain	17	0.0%	5.9%	23.5%	29.4%	41.2%	4.06 (.966)
Restroom facilities	17	0.0%	5.9%	11.8%	58.8%	23.5%	4.00 (.791)
Posted regulations	16	6.3%	6.3%	18.8%	31.3%	37.5%	3.88 (1.204)
Lighting for extended hours	17	0.0%	17.6%	23.5%	35.3%	25.3%	3.65 (1.057)
Dog wash station	16	0.0%	6.3%	43.8%	31.3%	18.8%	3.63 (.885)
Adjoining park areas (e.g., trails, playground)	16	12.5%	6.3%	12.5%	62.5%	6.3%	3.44 (1.153)
Water play areas (e.g., lakes)	17	11.8%	23.5%	5.9%	47.1%	11.8%	3.24 (1.300)
Walking trails within the dog park	16	12.5%	6.3%	31.3%	50.0%	0.0%	3.19 (1.047)
Controlled access (e.g., proof of vaccination, membership)	15	6.7%	33.3%	26.7%	20.0%	13.3%	3.00 (1.195)
Agility equipment (e.g., jumps, tunnels)	16	0.0%	37.5%	31.3%	31.3%	0.0%	2.94 (.854)
Park monitor	15	13.3%	26.7%	26.7%	20.0%	13.3%	2.93 (1.280)
Separate areas for small vs. large dogs	15	6.7%	46.7%	6.7%	26.7%	13.3%	2.93 (1.280)

Figure 24: Constraints to visitation



Numbers to the right of the chart represent Mean (M) scores; 1=Not at all, 5=A great deal

Table 10: Constraints to visitation

	n	Not at all	A little	Somewhat	A lot	A great deal	Mean (S.D.)
Not enough time	15	6.7%	6.7%	40.0%	20.0%	26.7%	3.53 (1.187)
Poorly maintained park	14	21.4%	50.0%	14.3%	0.0%	14.3%	2.36 (1.277)
Terrain issues (e.g., lack of grass, erosion)	15	60.0%	6.7%	13.3%	6.7%	13.3%	2.07 (1.534)
Crime concerns (e.g., car break-ins)	15	53.3%	13.3%	20.0%	6.7%	6.7%	2.00 (1.309)
Aggressive behavior from other dog(s)	15	46.7%	33.3%	13.3%	0.0%	6.7%	1.87 (1.125)
Park is too far from home	16	62.5%	18.8%	6.3%	0.0%	12.5%	1.81 (1.377)
My dog does not respond to my commands	14	50.0%	35.7%	7.1%	7.1%	0.0%	1.71 (.914)
Presence of dog feces	14	50.0%	42.9%	0.0%	7.1%	0.0%	1.64 (.842)
Personal safety concerns (e.g., fear of injury)	15	66.7%	13.3%	13.3%	6.7%	0.0%	1.60 (.986)
Conflict with other dog owners	14	57.1%	35.7%	0.0%	7.1%	0.0%	1.57 (.852)
Aggressive behavior from my dog(s)	15	66.7%	26.7%	0.0%	0.0%	6.7%	1.53 (1.060)
No one to go with	16	68.8%	12.5%	18.8%	0.0%	0.0%	1.50 (.816)
Park is not designed for the activities I want to do	14	78.6%	7.1%	14.3%	0.0%	0.0%	1.36 (.745)
Feel unwelcome	15	80.0%	13.3%	6.7%	0.0%	0.0%	1.33 (.816)
My dog is not vaccinated	14	92.9%	0.0%	0.0%	0.0%	7.1%	1.29 (1.069)
My dog is not neutered/spayed	14	92.9%	0.0%	0.0%	0.0%	7.1%	1.29 (1.069)
Park feels too crowded	15	80.0%	13.3%	6.7%	0.0%	0.0%	1.27 (.594)
Limited park hours	15	86.7%	6.7%	6.7%	0.0%	0.0%	1.20 (.561)
Family/friends don’t have dogs	15	86.7%	6.7%	6.7%	0.0%	0.0%	1.20 (.561)
Lack of transportation	15	86.7%	13.3%	0.0%	0.0%	0.0%	1.13 (.352)
My dog is an older dog	15	93.3%	0.0%	6.7%	0.0%	0.0%	1.13 (.516)
Lack of information about the park	16	93.8%	0.0%	6.3%	0.0%	0.0%	1.13 (.500)
Park regulations are too strict	15	93.3%	6.7%	0.0%	0.0%	0.0%	1.07 (.258)

**Section IV: Fees in Dog Parks**

Figure 25: What would you consider a fair annual price for using Columbia Parks & Recreation dog parks? (n=16)

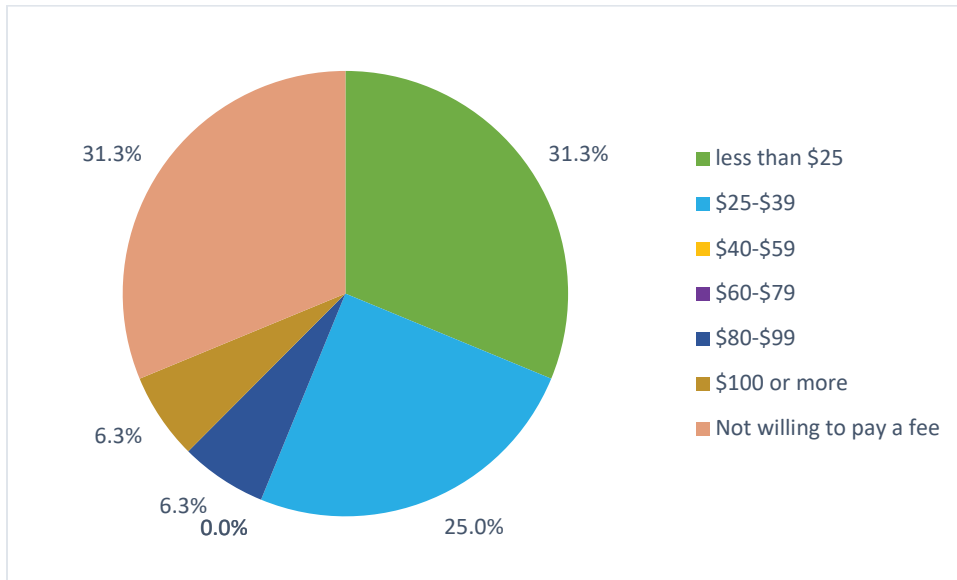
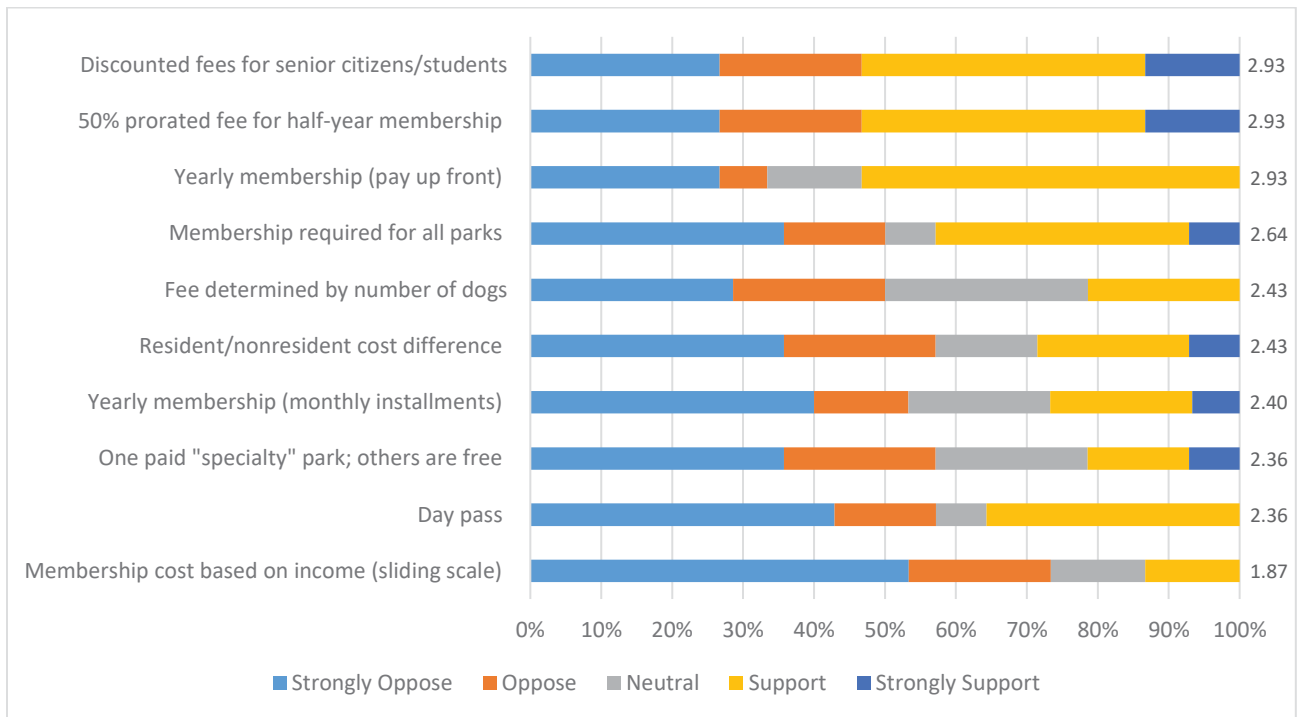


Figure 26: To what extent would you support or oppose the following fee structures?

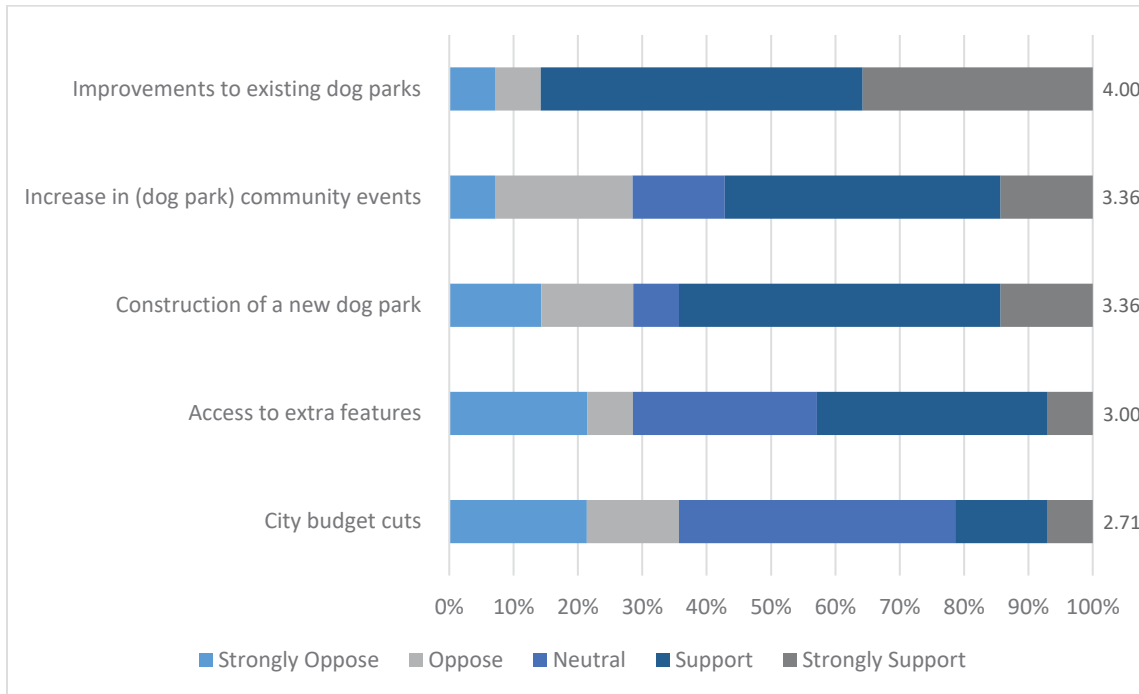


Numbers to the right of the chart represent the mean (M) scores; 1= Strongly Oppose, 5=Strongly Support

Table 11: To what extent would you support or oppose the following fee structures?

	n	Strongly Oppose	Oppose	Neutral	Support	Strongly Support	Mean (S.D.)
Discounted fees for senior citizens/students	15	26.7%	20.0%	0.0%	40.0%	13.3%	2.93 (1.534)
50% prorated fee for half-year membership	15	26.7%	20.0%	0.0%	40.0%	13.3%	2.93 (1.534)
Yearly membership (pay up front)	15	26.7%	6.7%	13.3%	53.3%	0.0%	2.93 (1.335)
Membership required for all parks	14	35.7%	14.3%	7.1%	35.7%	7.1%	2.64 (1.499)
Fee determined by number of dogs	14	28.6%	21.4%	28.6%	21.4%	0.0%	2.43 (1.158)
Resident/nonresident cost difference	14	35.7%	21.4%	14.3%	21.4%	7.1%	2.43 (1.399)
Yearly membership (monthly installments)	15	40.0%	13.3%	20.0%	20.0%	6.7%	2.40 (1.404)
One paid "specialty" park; others are free	14	35.7%	21.4%	21.4%	14.3%	7.1%	2.36 (1.336)
Day pass	14	42.9%	14.3%	7.1%	35.7%	0.0%	2.36 (1.393)
Membership cost based on income (sliding scale)	15	53.3%	20.0%	13.3%	13.3%	0.0%	1.87 (1.125)

Figure 27: For each of the following circumstances, to what extent would you support or oppose paying a \$25 fee for using Columbia Parks & Recreation dog parks? (n=14)

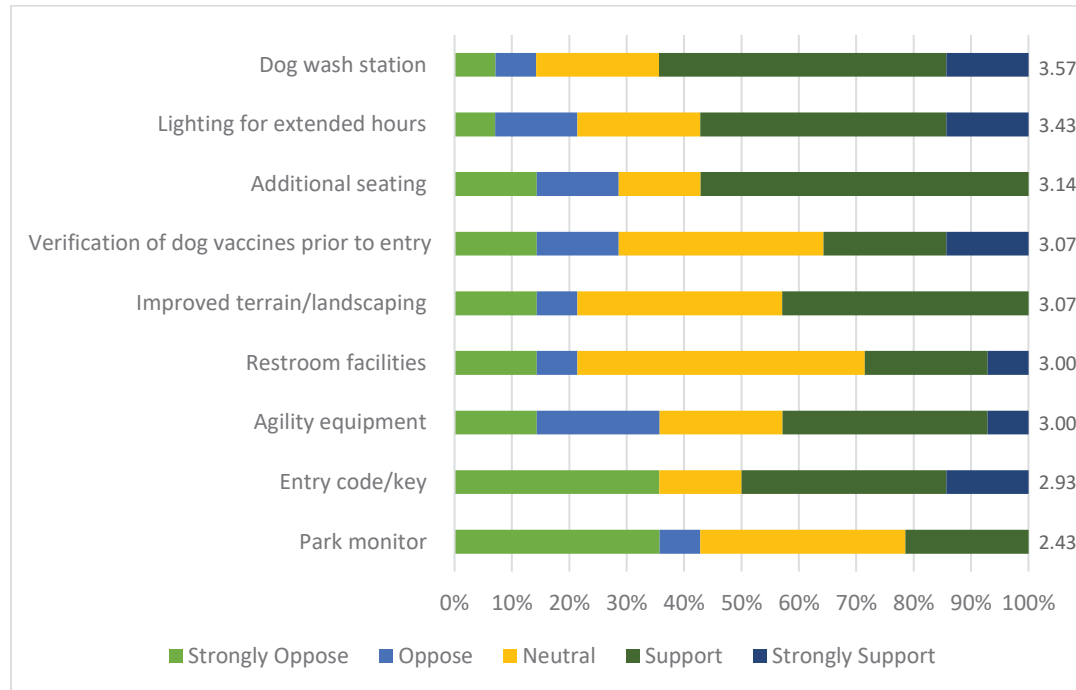


Numbers to the right of the chart represent the mean (M) scores; 1= Strongly Oppose, 5=Strongly Support

Table 12: For each of the following circumstances, to what extent would you support or oppose paying a \$25 fee for using Columbia Parks & Recreation dog parks? (n=14)

	Strongly Oppose	Oppose	Neutral	Support	Strongly Support	Mean (S.D.)
Improvements to existing dog parks	7.1%	7.1%	0.0%	50.0%	35.7%	4.00 (1.177)
Increase in (dog park) community events	7.1%	21.4%	14.3%	42.9%	14.3%	3.36 (1.216)
Construction of a new dog park	14.3%	14.3%	7.1%	50.0%	14.3%	3.36 (1.336)
Access to extra features	21.4%	7.1%	28.6%	35.7%	7.1%	3.00 (1.301)
City budget cuts	21.4%	14.3%	42.9%	14.3%	7.1%	2.71 (1.204)

Figure 28: To what extent would you support or oppose paying a \$25 fee for using Columbia Parks & Recreation dog parks in exchange for the following features? (n=14)



Numbers to the right of the chart represent the mean (M) scores; 1= Strongly Oppose, 5=Strongly Support

Table 13: To what extent would you support or oppose paying a \$25 fee for using Columbia Parks & Recreation dog parks in exchange for the following features? (n=14)

	Strongly Oppose	Oppose	Neutral	Support	Strongly Support	Mean (S.D.)
Dog wash station	7.1%	7.1%	21.4%	50.0%	14.3%	3.57 (1.089)
Lighting for extended hours	7.1%	14.3%	21.4%	42.9%	14.3%	3.43 (1.158)
Additional seating	14.3%	14.3%	14.3%	57.1%	0.0%	3.14 (1.167)
Verification of dog vaccines prior to entry	14.3%	14.3%	35.7%	21.4%	14.3%	3.07 (1.269)
Improved terrain/landscaping	14.3%	7.1%	35.7%	42.9%	0.0%	3.07 (1.072)
Restroom facilities	14.3%	7.1%	50.0%	21.4%	7.1%	3.00 (1.109)
Agility equipment	14.3%	21.4%	21.4%	35.7%	7.1%	3.00 (1.240)
Entry code/key	35.7%	0.0%	14.3%	35.7%	14.3%	2.93 (1.592)
Park monitor	35.7%	7.1%	35.7%	21.4%	0.0%	2.43 (1.222)



**Appendix D:  
Brief Report (Garth)**

**Columbia Parks and Recreation Dog Park Study**  
**Brief Report: Garth Dog Park**

Lily Bennett  
Sonja Wilhelm Stanis, PhD



**School of Natural Resources**  
University of Missouri

This brief report presents a summary of the onsite visitor survey data collected from Garth Dog Park May-August 2018 (Response rate 89.9%; n=71)

**Section I: Respondent Profile (Garth)**

Figure 1: Respondent gender (n=70)

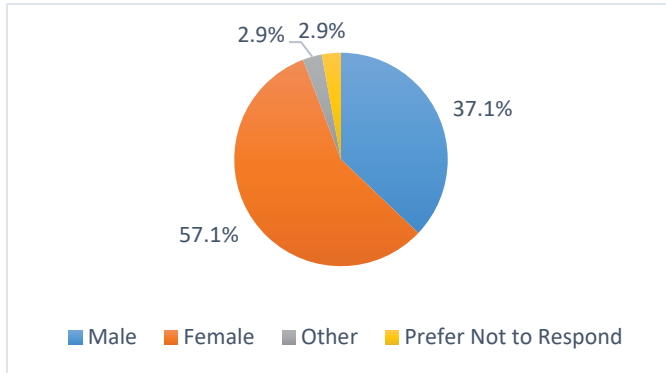


Figure 2: Respondent age groups (n=69)

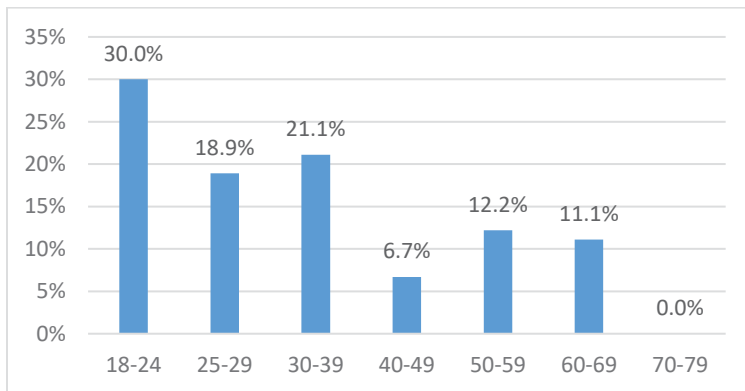


Figure 3: Annual household income before taxes (n=66)

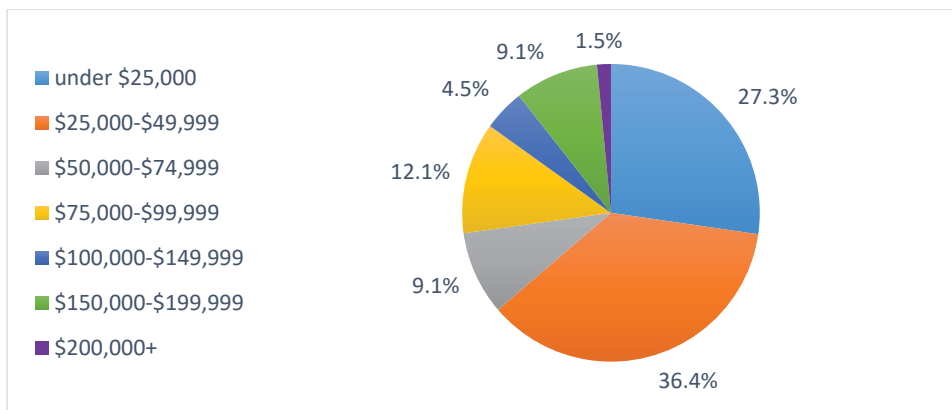


Figure 4: Number of children under 18 in household (n=65)

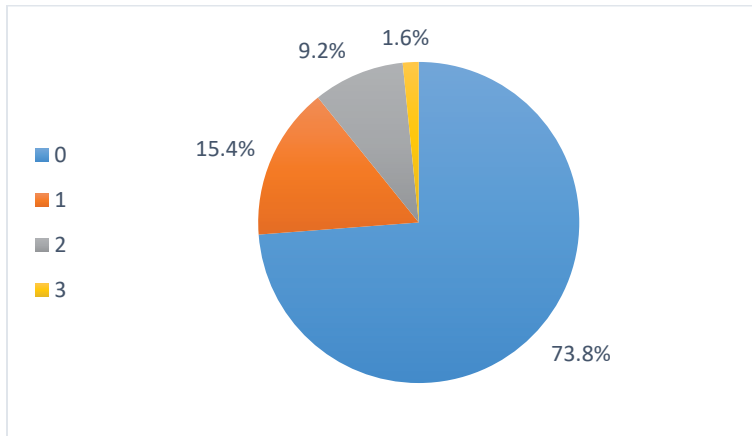


Figure 5: Number of dogs owned (n=68)

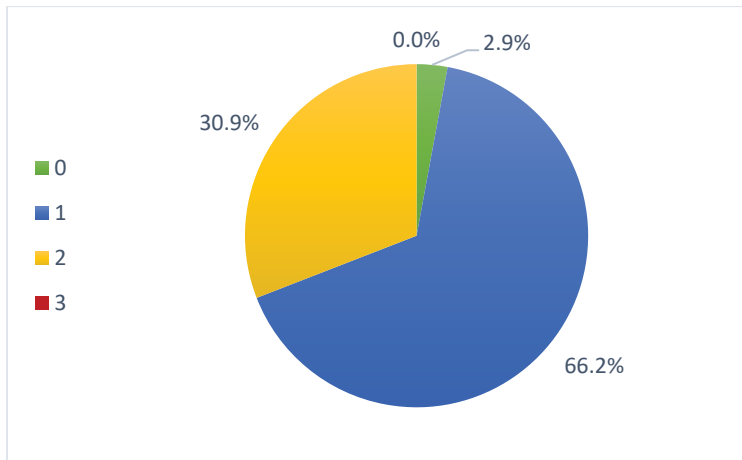


Figure 6: Residence type (n=69)

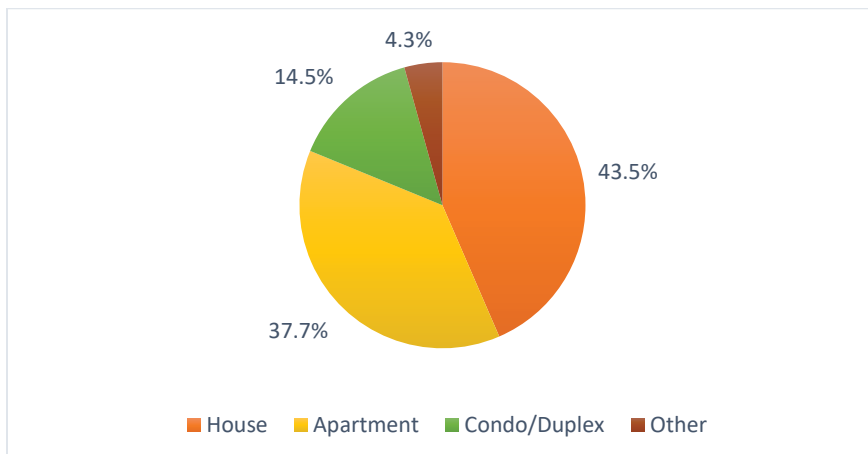


Figure 7: Does your residence have a fenced area for dogs? (n=69)

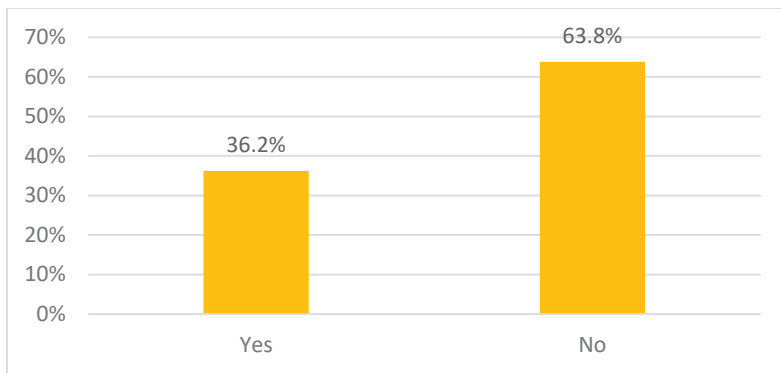


Figure 8: What is your zip code? (n=65)

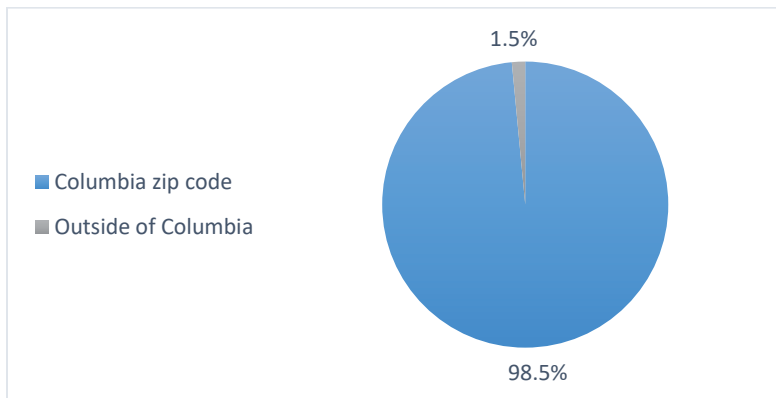
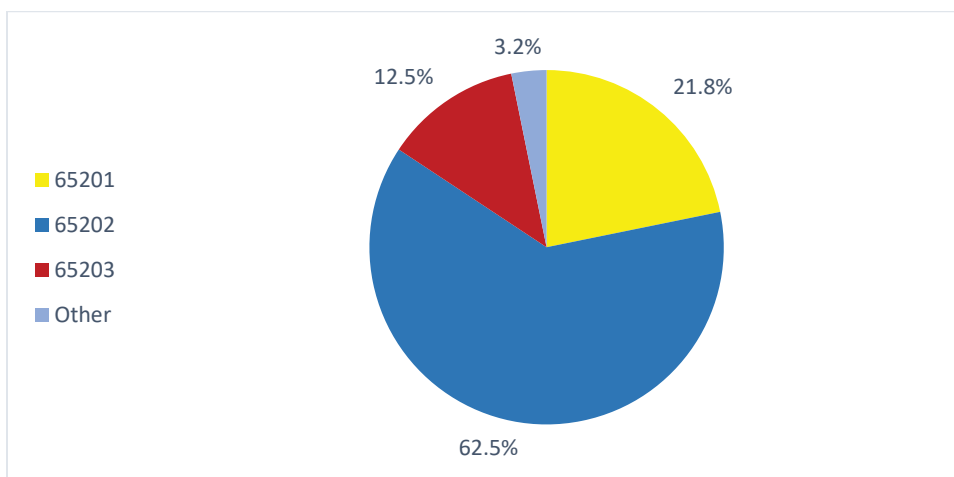


Figure 9: Respondent zip codes (within Columbia) (n=64)



**Section II: Usage and Today's Visit**

Figure 10: Transportation to the dog park (n=71)

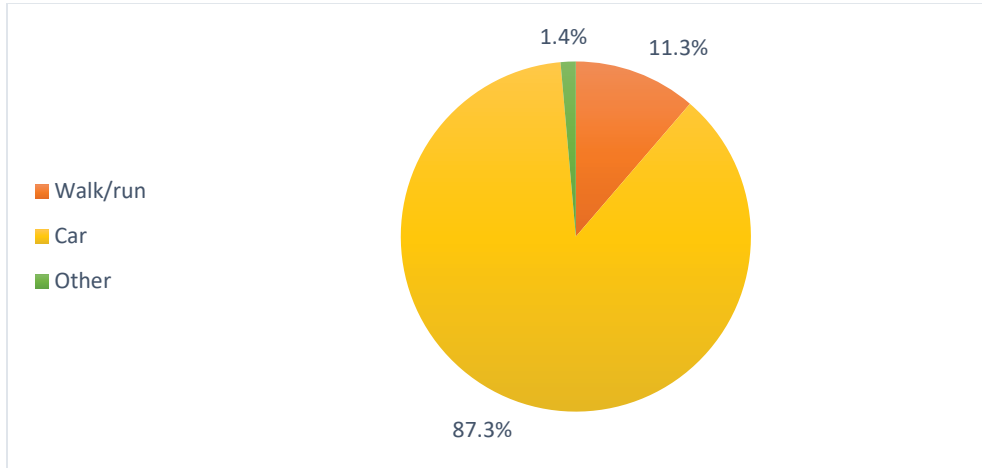


Figure 11: Travel time (minutes) (n=71)

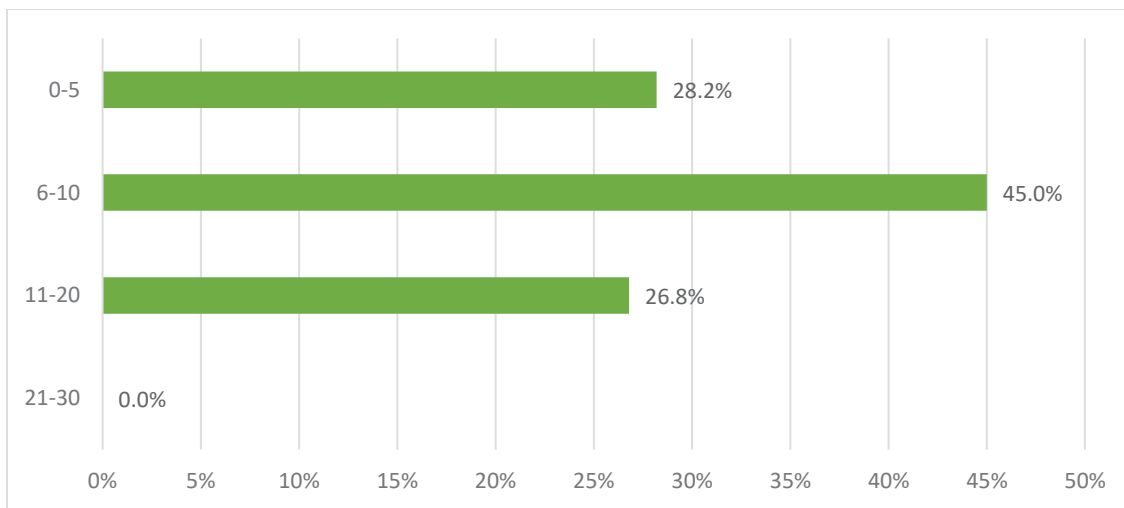


Figure 12: Miles traveled to the dog park (n=70)

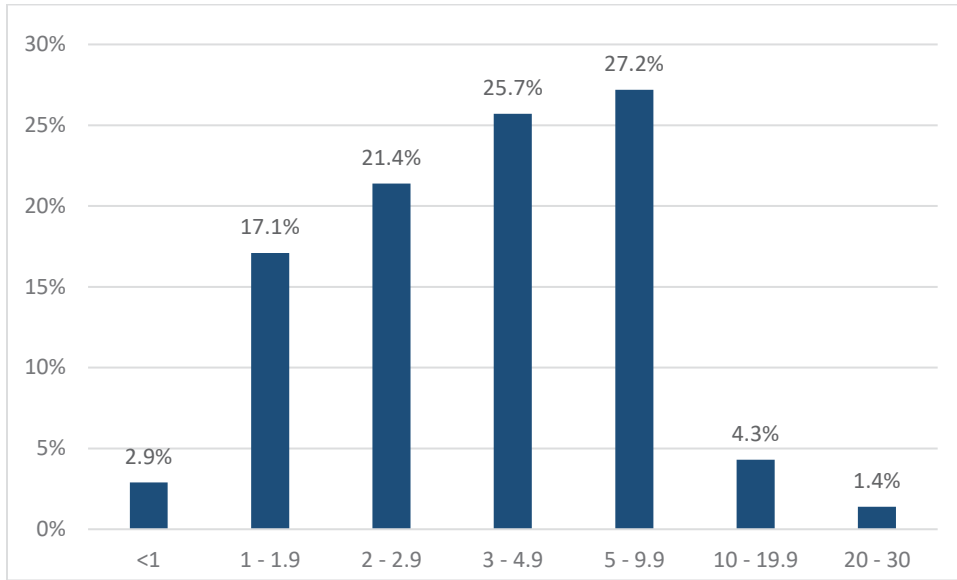


Figure 13: Length of stay at the dog park (minutes) (n=67)

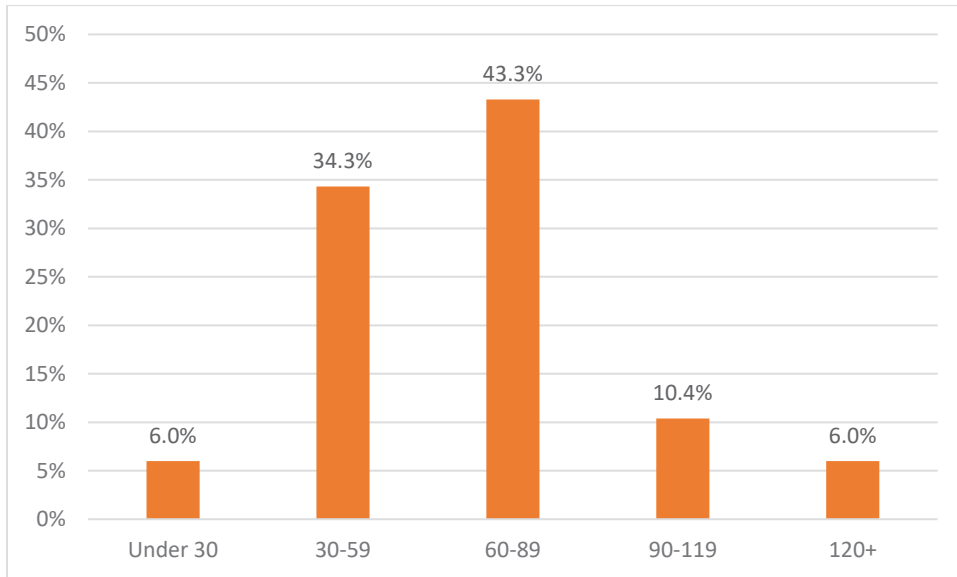


Figure 14: Are you here with dog(s) today? (n=71)

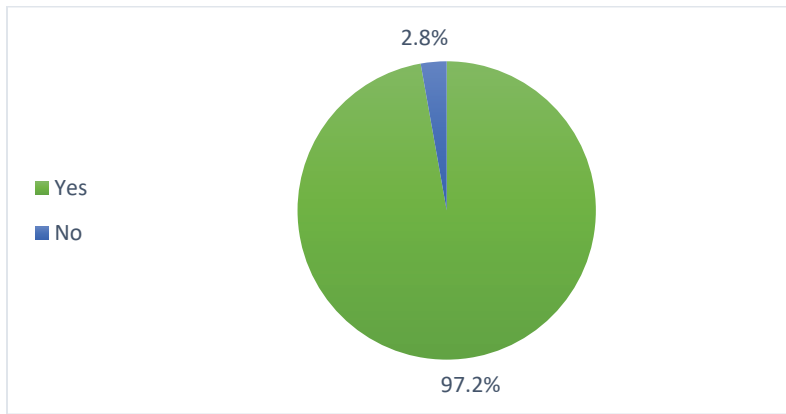


Figure 15: If you are with a dog(s), then how many dog(s) are you here with today? (n=69)

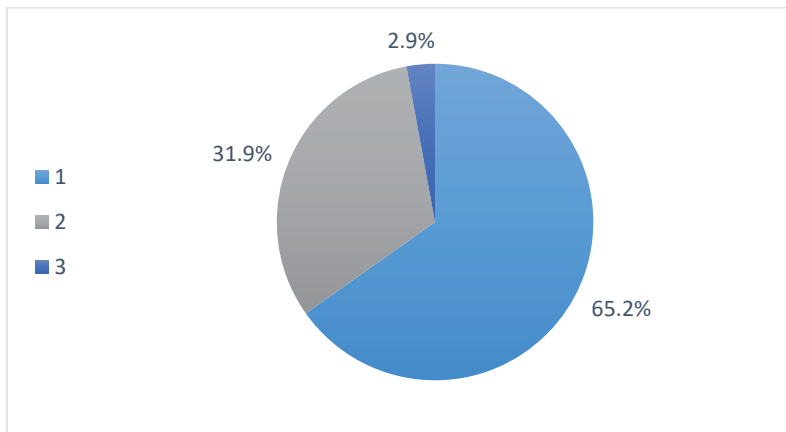


Figure 16: If you are with a dog(s), are you the owner of the dog(s)? (n=68)

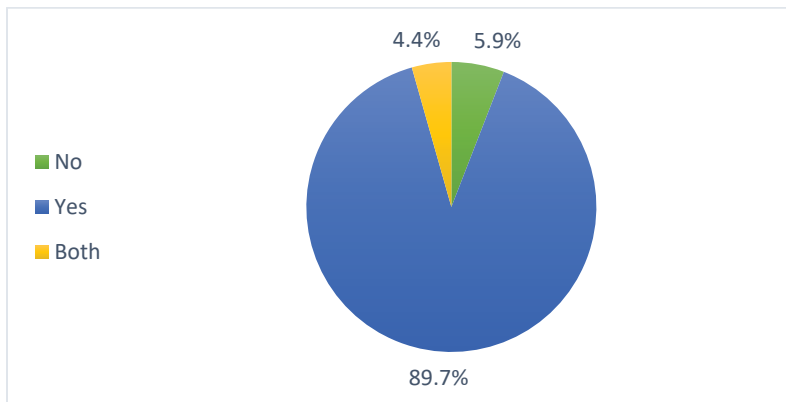
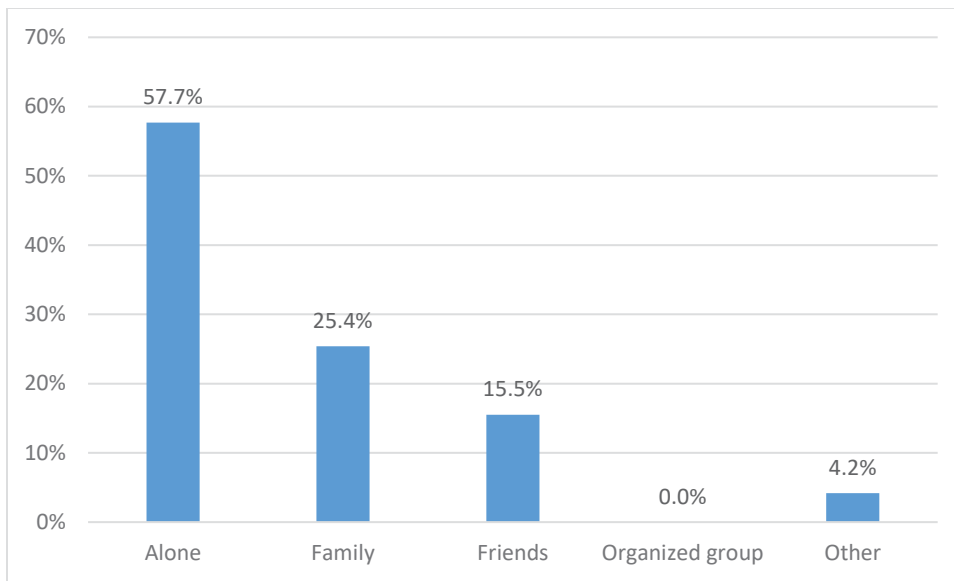




Figure 17: With whom are you visiting the dog park today? (check all that apply) (n=71)



Most common “Other” response is “significant other”

Table 1: Place Attachment

	n	Mean	S.D.
<b>Place Identity</b>		<b>3.64</b>	<b>.377</b>
This dog park means a lot to me	16	4.06	.574
I identify strongly with this dog park	15	3.53	.990
I am very attached to this dog park	15	3.33	.816
<b>Place Bonding</b>		<b>3.45</b>	<b>.062</b>
I have a lot of fond memories about this dog park	16	3.50	.816
I bring my family/friends to this dog park	15	3.47	.743
I have a special connection with the people who come to this dog park	16	3.38	.990
<b>Place Dependence</b>		<b>3.30</b>	<b>0.43</b>
This dog park is the best place for dogs	15	3.60	.828
I enjoy recreating at this dog park more than any other dog park	16	3.50	1.033
I wouldn’t substitute any other dog park for what I do here	16	2.81	.750

1=Strongly Disagree, 5=Strongly Agree

**Section III: Columbia Parks and Recreation Dog Parks**

Figure 18: Park visitation

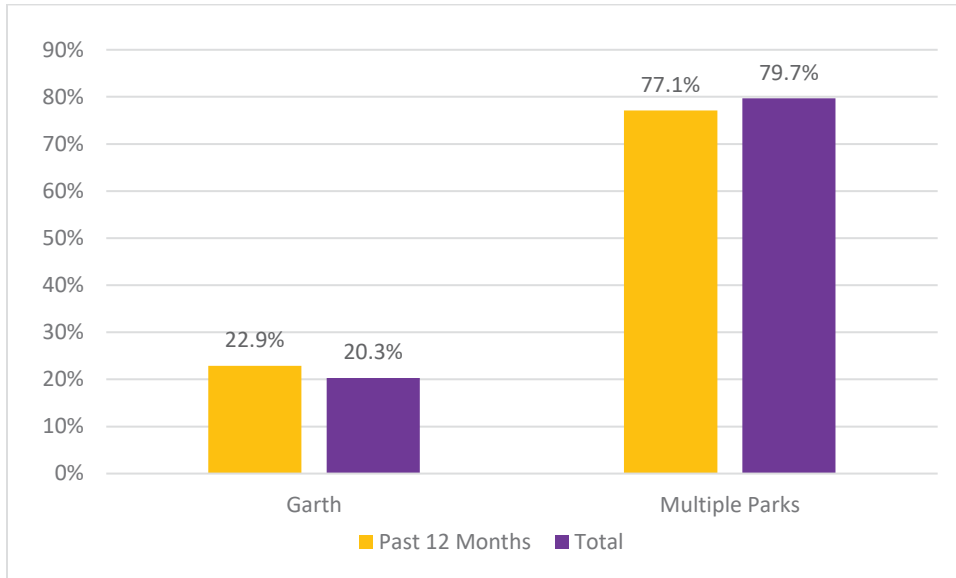


Table 2: Park visitation

	n	Garth only	Multiple parks
Past 12 months	70	22.9%	77.1%
Total	64	20.3%	79.7%

Figure 19: Average (mean) number of visits to each dog park

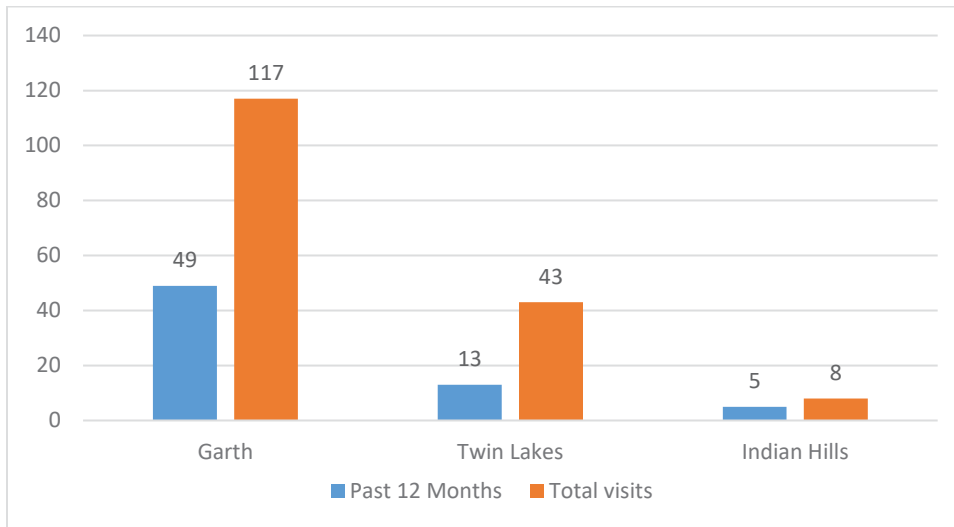


Table 3: Average number of visits to each dog park *over the past 12 months*

	n	Minimum	Maximum	Median	Mean
Garth	67	1	300	24	49
Twin Lakes	52	1	75	5	13
Indian Hills	16	1	20	3	5

“Mean” and “Median” are rounded to the nearest whole number  
 Respondents who indicated they had not visited the dog park were excluded from the analysis.

Table 4: Average number of *total* visits to each dog park

	n	Minimum	Maximum	Median	Mean
Garth	63	1	900	35	117
Twin Lakes	51	1	250	20	43
Indian Hills	24	1	30	6	8

“Mean” and “Median” are rounded to the nearest whole number  
 Respondents who indicated they had not visited the dog park were excluded from the analysis.

Figure 20: Average (mean) number of *years* coming to each dog park

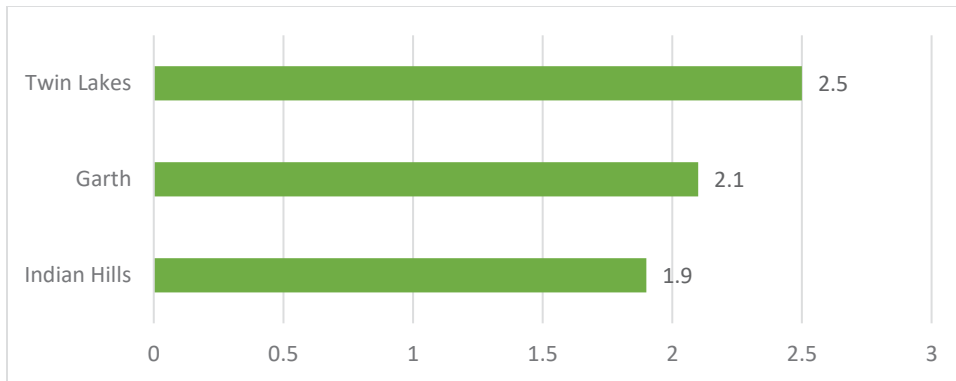


Table 5: Average number of years coming to each dog park

	n	Minimum	Maximum	Median	Mean
Twin Lakes	51	0.5	15	2	2.5
Garth	66	0.3	8	1.8	2.1
Indian Hills	21	0.5	4	2	1.9

Respondents who indicated they had not visited the dog park were excluded from the analysis.

Figure 21: Park visitation per season

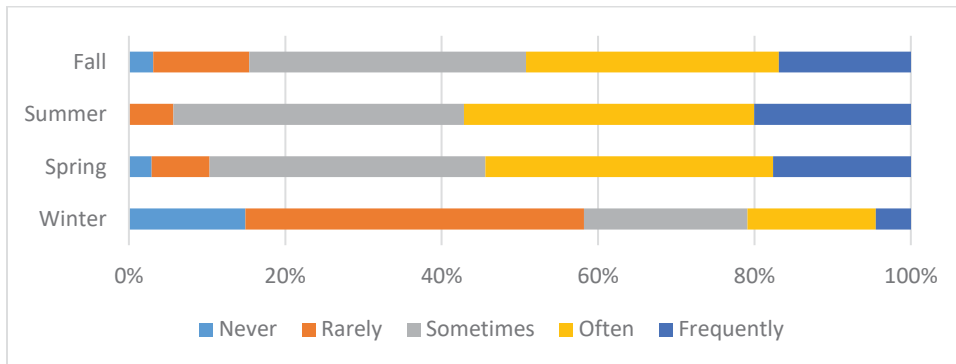


Table 6: Park visitation per season

	n	Never (0)	Rarely (1-4)	Sometimes (5-19)	Often (20-49)	Frequently (50+)
Fall	65	3.1%	12.3%	35.4%	32.3%	16.9%
Summer	70	0.0%	5.7%	37.1%	37.1%	20.0%
Spring	68	2.9%	7.4%	35.3%	36.8%	17.6%
Winter	67	14.9%	43.3%	20.9%	16.4%	4.5%

Figure 22: Weekly visitation times (select all that apply) (n=71)

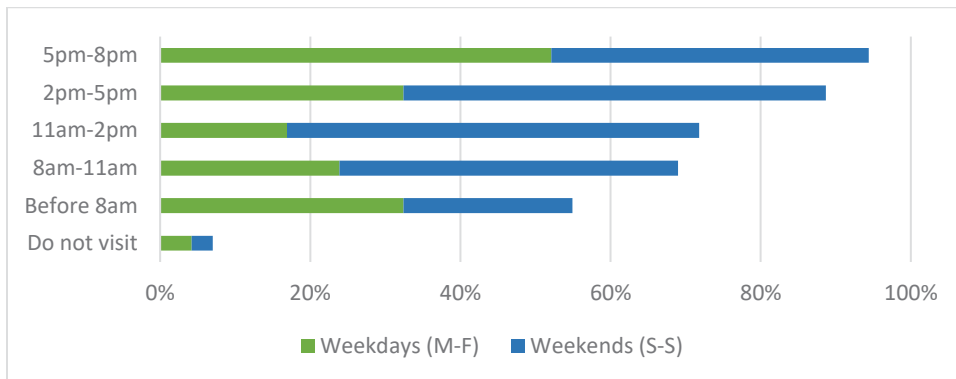
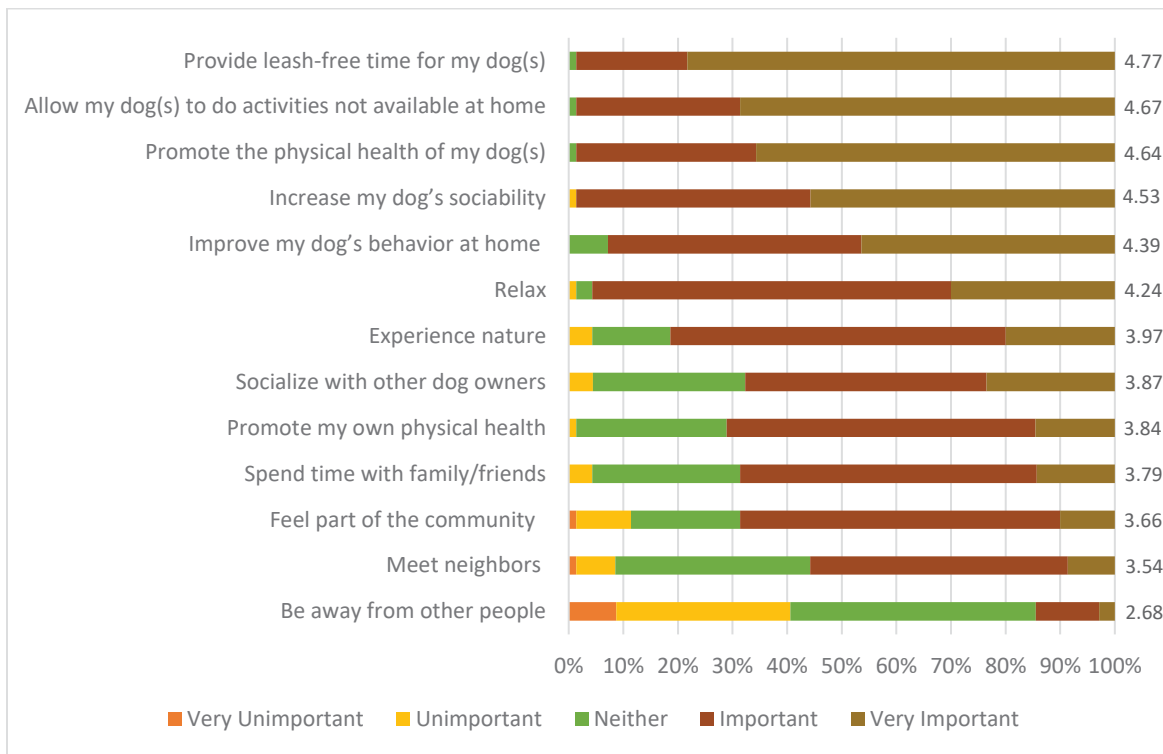


Table 7: Weekly visitation times (select all that apply) (n=71)

	Do Not Visit	Before 8am	8am-11am	11am-2pm	2pm-5pm	After 5pm
Weekdays (M-F)	4.2%	32.4%	23.9%	16.9%	32.4%	52.1%
Weekends (S-S)	2.8%	22.5%	45.1%	54.9%	56.3%	42.3%

Figure 23: Motivations for choosing a dog park

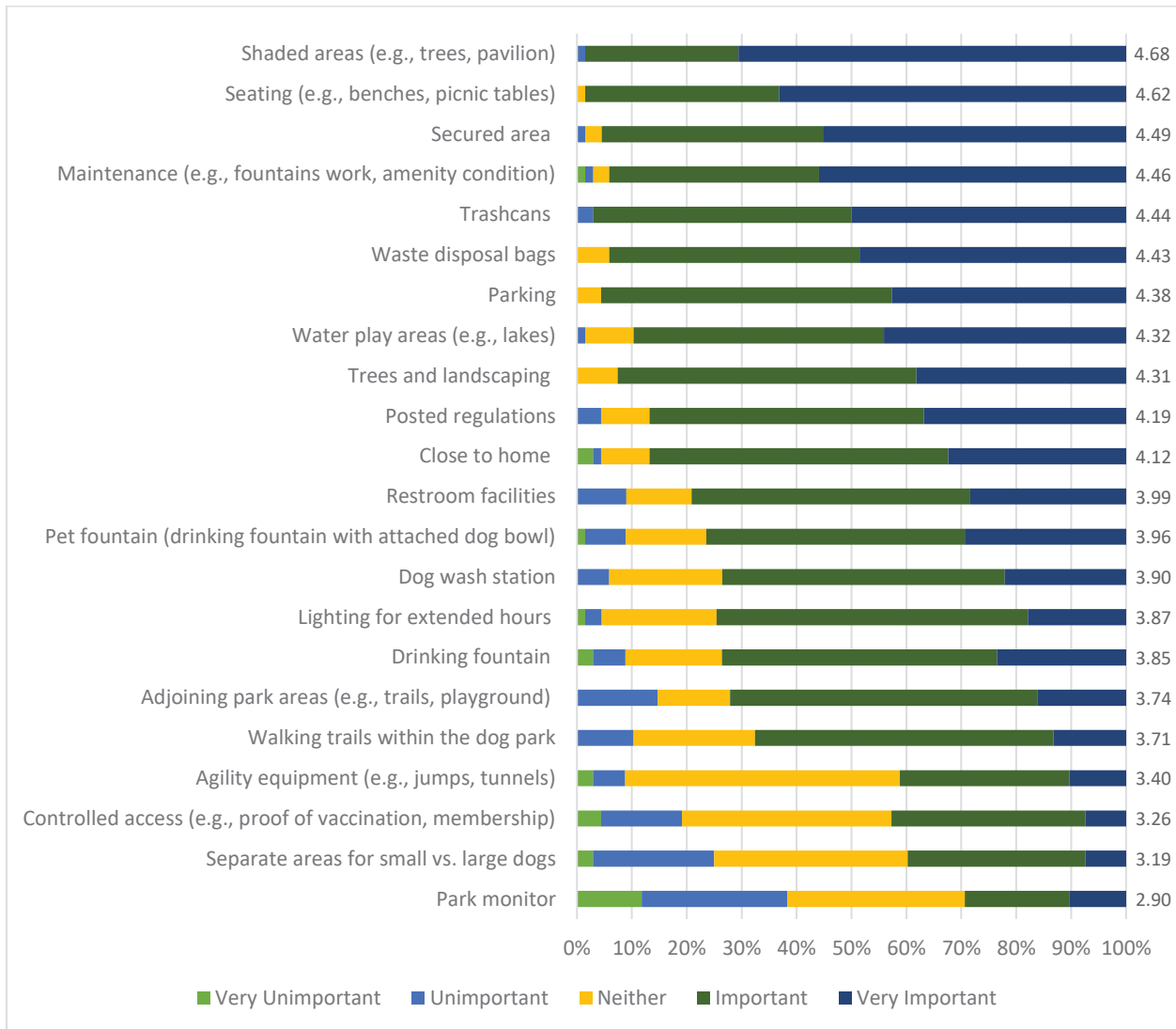


Numbers to the right of the chart represent item mean (M) scores; 1=Very Unimportant, 5=Very Important

Table 8: Motivations for choosing a dog park

	n	Very Unimportant	Unimportant	Neither	Important	Very Important	Mean (S.D.)
Provide leash-free time for my dog(s)	69	0.0%	0.0%	1.4%	20.3%	78.3%	4.77 (.458)
Allow my dog(s) to do activities not available at home	70	0.0%	0.0%	1.4%	30.0%	68.6%	4.67 (.503)
Promote the physical health of my dog(s)	70	0.0%	0.0%	1.4%	32.9%	65.7%	4.64 (.512)
Increase my dog’s sociability	70	0.0%	1.4%	0.0%	42.9%	55.7%	4.53 (.583)
Improve my dog’s behavior at home	69	0.0%	0.0%	7.2%	46.4%	46.4%	4.39 (.623)
Relax	70	0.0%	1.4%	2.9%	65.7%	30.0%	4.24 (.576)
Experience nature	70	0.0%	4.3%	14.3%	61.4%	20.0%	3.97 (.722)
Socialize with other dog owners	68	0.0%	4.4%	27.9%	44.1%	23.5%	3.87 (.827)
Promote my own physical health	69	0.0%	1.4%	27.5%	56.5%	14.5%	3.84 (.678)
Spend time with family/friends	70	0.0%	4.3%	27.1%	54.3%	14.3%	3.79 (.740)
Feel part of the community	70	1.4%	10.0%	20.0%	58.6%	10.0%	3.66 (.849)
Meet neighbors	70	1.4%	7.1%	35.7%	47.1%	8.6%	3.54 (.811)
Be away from other people	69	8.7%	31.9%	44.9%	11.6%	2.9%	2.68 (.899)

Figure 24: Importance of dog park attributes



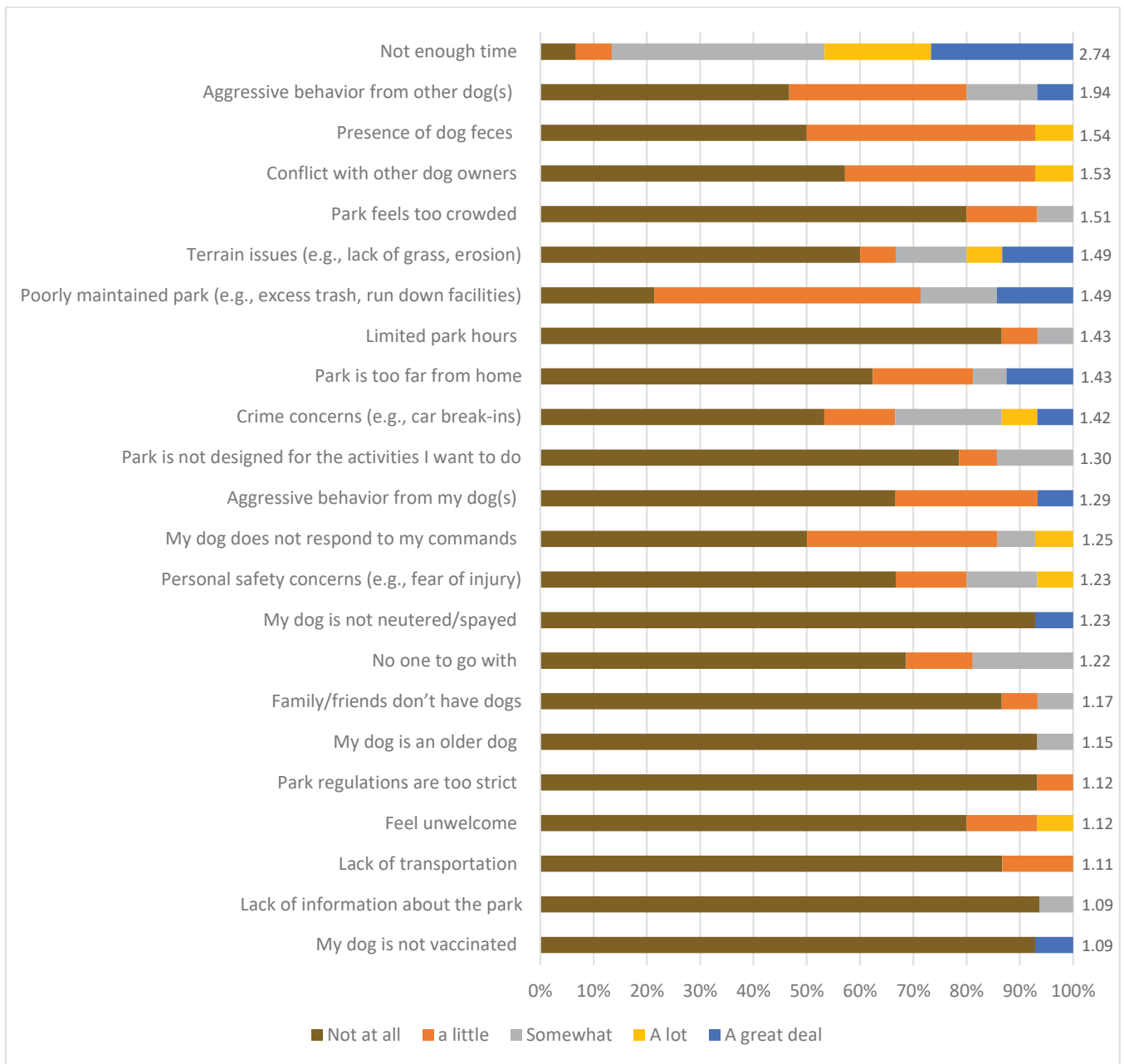
Numbers to the right of the chart represent item mean (M) scores; 1=Very Unimportant, 5=Very Important

Table 9: Importance of dog park attributes

	n	Very Unimportant	Unimportant	Neither	Important	Very Important	Mean (S.D.)
Shaded areas (e.g., trees, pavilion)	68	0.0%	1.5%	0.0%	27.9%	70.6%	4.68 (.558)
Seating (e.g., benches, picnic tables)	68	0.0%	0.0%	1.5%	35.3%	63.2%	4.62 (.519)
Secured area	67	0.0%	1.5%	3.0%	40.3%	55.2%	4.49 (.637)
Maintenance (e.g., fountains work, amenity condition)	68	1.5%	1.5%	2.9%	38.2%	55.9%	4.46 (.762)
Trashcans	68	0.0%	2.9%	0.0%	47.1%	50.0%	4.44 (.655)
Waste disposal bags	68	0.0%	0.0%	5.9%	45.6%	48.5%	4.43 (.606)
Parking	68	0.0%	0.0%	4.4%	52.9%	42.6%	4.38 (.574)
Water play areas (e.g., lakes)	68	0.0%	1.5%	8.8%	45.6%	44.1%	4.32 (.701)
Trees and landscaping	68	0.0%	0.0%	7.4%	54.4%	38.2%	4.31 (.605)
Posted regulations	68	0.0%	4.4%	8.8%	50.0%	36.8%	4.19 (.778)
Close to home	68	2.9%	1.5%	8.8%	54.4%	32.4%	4.12 (.856)
Restroom facilities	67	0.0%	9.0%	11.9%	50.7%	28.4%	3.99 (.879)
Pet fountain (drinking fountain with attached dog bowl)	68	1.5%	7.4%	14.7%	47.1%	29.4%	3.96 (.937)
Dog wash station	68	0.0%	5.9%	20.6%	51.5%	22.1%	3.90 (.813)
Lighting for extended hours	67	1.5%	3.0%	20.9%	56.7%	17.9%	3.87 (.796)
Drinking fountain	68	2.9%	5.9%	17.6%	50.0%	23.5%	3.85 (.950)
Adjoining park areas (e.g., trails, playground)	68	0.0%	14.7%	13.2%	55.9%	16.2%	3.74 (.908)
Walking trails within the dog park	68	0.0%	10.3%	22.1%	54.4%	13.2%	3.71 (.830)
Agility equipment (e.g., jumps, tunnels)	68	2.9%	5.9%	50.0%	30.9%	10.3%	3.40 (.866)
Controlled access (e.g., proof of vaccination, membership)	68	4.4%	14.7%	38.2%	35.3%	7.4%	3.26 (.956)
Separate areas for small vs. large dogs	68	2.9%	22.1%	35.3%	32.4%	7.4%	3.19 (.966)
Park monitor	68	11.8%	26.5%	32.4%	19.1%	10.3%	2.90 (1.161)



Figure 25: Constraints to visitation



Numbers to the right of the chart represent item mean (M) scores; 1=Not at all, 5=A great deal

Table 10: Constraints to Visitation

	n	Not at all	a little	Somewhat	A lot	A great deal	Mean (S.D.)
Not enough time	66	6.7%	6.7%	40.0%	20.0%	26.7%	2.74 (1.328)
Aggressive behavior from other dog(s)	68	46.7%	33.3%	13.3%	0.0%	6.7%	1.94 (1.091)
Presence of dog feces	67	50.0%	42.9%	0.0%	7.1%	0.0%	1.54 (0.804)
Conflict with other dog owners	68	57.1%	35.7%	0.0%	7.1%	0.0%	1.53 (0.985)
Park feels too crowded	68	80.0%	13.3%	6.7%	0.0%	0.0%	1.51 (0.906)
Poorly maintained park (e.g., excess trash, run down facilities)	65	21.4%	50.0%	14.3%	0.0%	14.3%	1.49 (0.831)
Terrain issues (e.g., lack of grass, erosion)	65	60.0%	6.7%	13.3%	6.7%	13.3%	1.49 (0.773)
Park is too far from home	68	62.5%	18.8%	6.3%	0.0%	12.5%	1.43 (0.935)
Limited park hours	65	86.7%	6.7%	6.7%	0.0%	0.0%	1.43 (0.918)
Crime concerns (e.g., car break-ins)	66	53.3%	13.3%	20.0%	6.7%	6.7%	1.42 (0.878)
Park is not designed for the activities I want to do	66	78.6%	7.1%	14.3%	0.0%	0.0%	1.3 (0.784)
Aggressive behavior from my dog(s)	66	66.7%	26.7%	0.0%	0.0%	6.7%	1.29 (0.627)
My dog does not respond to my commands	65	50.0%	35.7%	7.1%	7.1%	0.0%	1.25 (0.531)
My dog is not neutered/spayed	47	92.9%	0.0%	0.0%	0.0%	7.1%	1.23 (0.865)
Personal safety concerns (e.g., fear of injury)	65	66.7%	13.3%	13.3%	6.7%	0.0%	1.23 (0.702)
No one to go with	67	68.6%	12.5%	18.8%	0.0%	0.0%	1.22 (0.487)
Family/friends don’t have dogs	64	86.7%	6.7%	6.7%	0.0%	0.0%	1.17 (0.420)
My dog is an older dog	65	93.3%	0.0%	6.7%	0.0%	0.0%	1.15 (0.441)
Feel unwelcome	65	80.0%	13.3%	0.0%	6.7%	0.0%	1.12 (0.484)
Park regulations are too strict	66	93.3%	6.7%	0.0%	0.0%	0.0%	1.12 (0.412)
Lack of transportation	64	86.7%	13.3%	0.0%	0.0%	0.0%	1.11 (0.403)
My dog is not vaccinated	45	92.9%	0.0%	0.0%	0.0%	7.1%	1.09 (0.468)
Lack of information about the park	65	93.8%	0.0%	6.3%	0.0%	0.0%	1.09 (0.384)

**Section IV: Fees in Dog Parks**

Figure 26: What would you consider a fair annual price for using Columbia Parks & Recreation dog parks? (n=70)

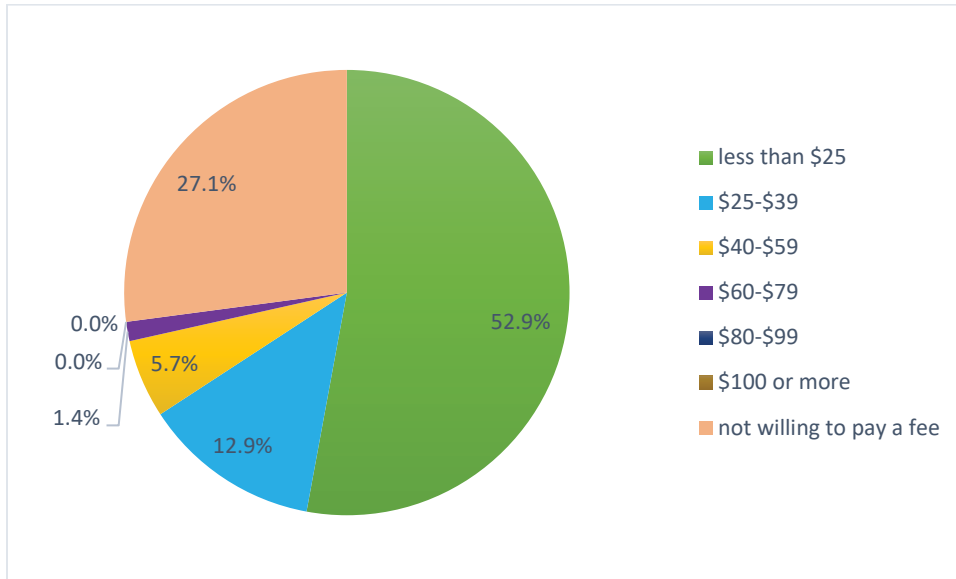
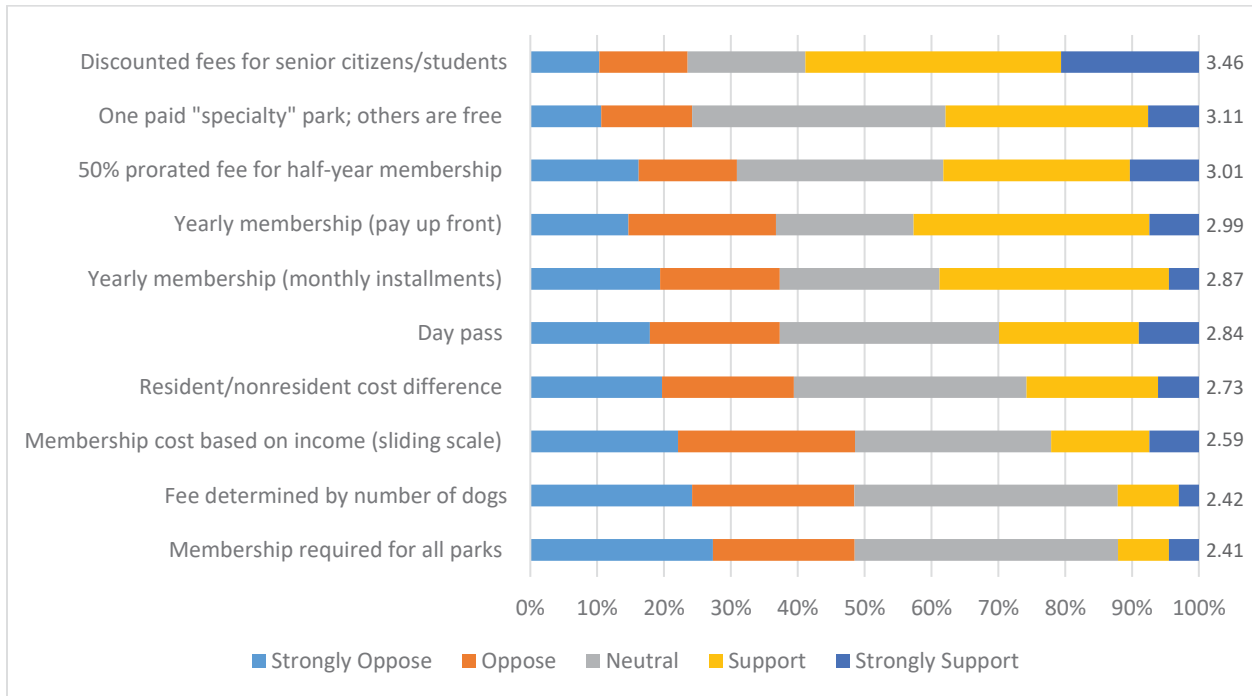


Figure 27: To what extent would you support or oppose the following fee structures?

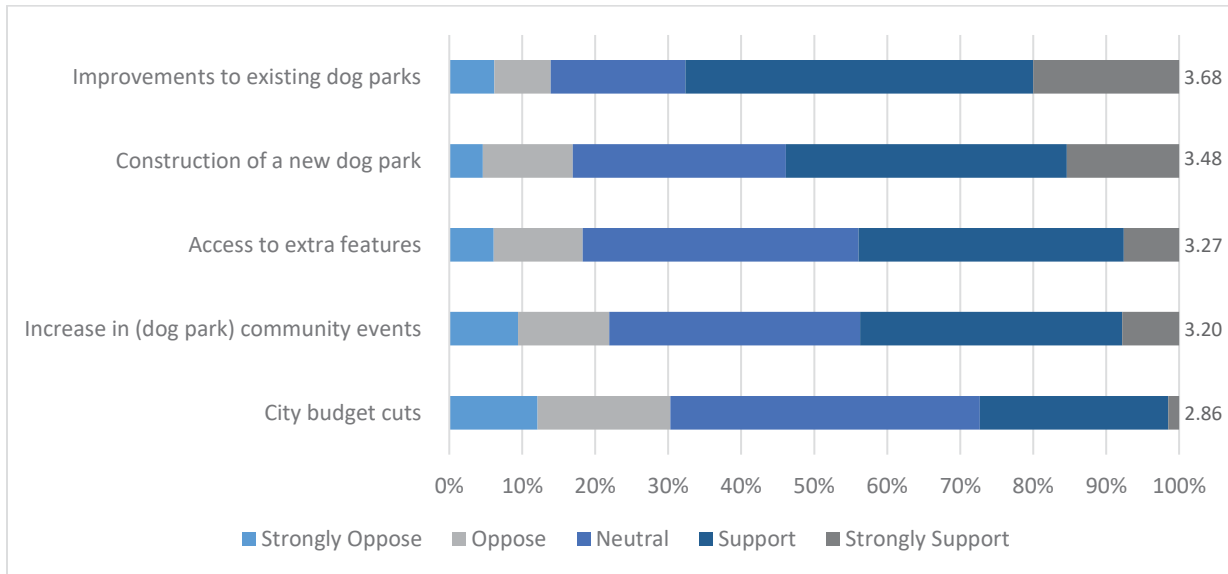


Numbers to the right of the chart represent item mean (M) scores; 1= Strongly Oppose, 5= Strongly Support

Table 11: To what extent would you support or oppose the following fee structures?

	n	Strongly Oppose	Oppose	Neutral	Support	Strongly Support	Mean (S.D.)
Discounted fees for senior citizens/students	68	10.3%	13.2%	17.6%	38.2%	20.6%	3.46 (1.251)
One paid "specialty" park; others are free	66	10.6%	13.6%	37.9%	30.3%	7.6%	3.11 (1.083)
50% prorated fee for half-year membership	68	16.2%	14.7%	30.9%	27.9%	10.3%	3.01 (1.228)
Yearly membership (pay up front)	68	14.7%	22.1%	20.6%	35.3%	7.4%	2.99 (1.215)
Yearly membership (monthly installments)	67	19.4%	17.9%	23.9%	34.3%	4.5%	2.87 (1.217)
Day pass	67	17.9%	19.4%	32.8%	20.9%	9.0%	2.84 (1.214)
Resident/nonresident cost difference	66	19.7%	19.7%	34.8%	19.7%	6.1%	2.73 (1.171)
Membership cost based on income (sliding scale)	68	22.1%	26.5%	29.4%	14.7%	7.4%	2.59 (1.2)
Fee determined by number of dogs	66	24.2%	24.2%	39.4%	9.1%	3.0%	2.42 (1.053)
Membership required for all parks	66	27.3%	21.2%	39.4%	7.6%	4.5%	2.41 (1.109)

Figure 28: For each of the following circumstances, to what extent would you support or oppose paying a \$25 fee for using Columbia Parks & Recreation dog parks?

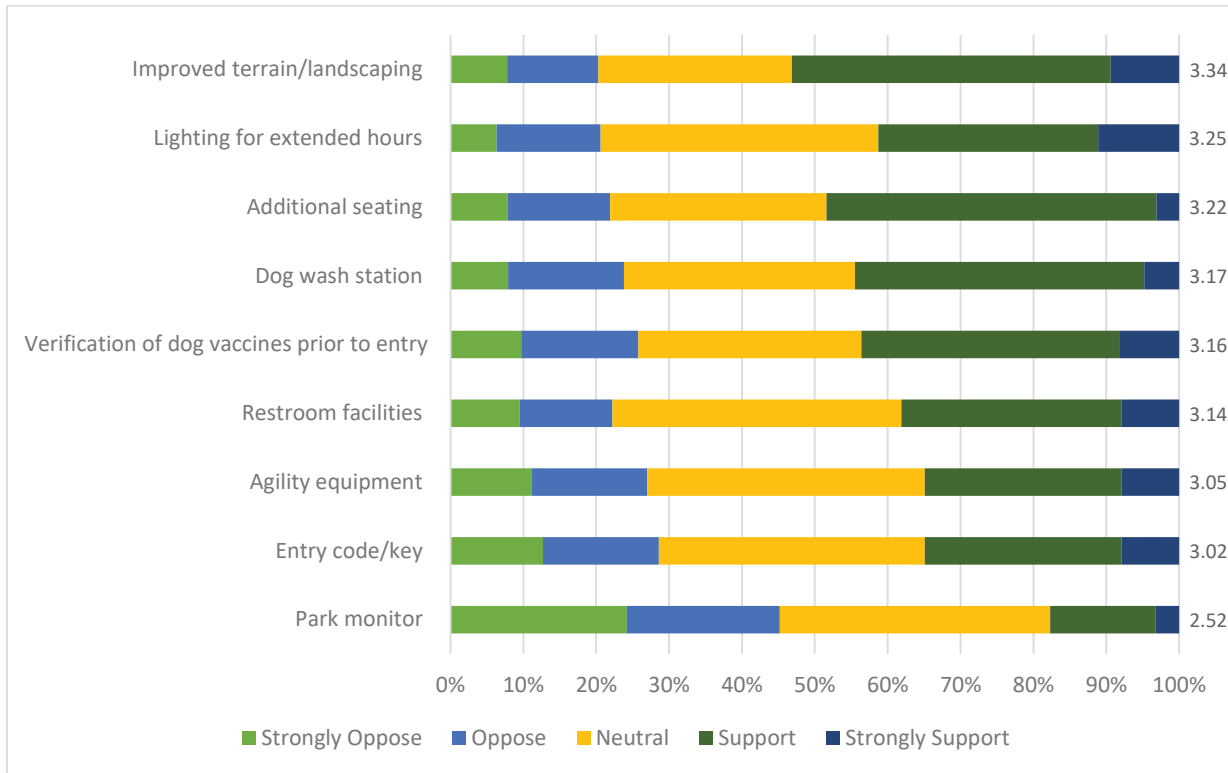


Numbers to the right of the chart represent item mean (M) scores; 1= Strongly Oppose, 5= Strongly Support

Table 12: For each of the following circumstances, to what extent would you support or oppose paying a \$25 fee for using Columbia Parks & Recreation dog parks?

	n	Strongly Oppose	Oppose	Neutral	Support	Strongly Support	Mean (S.D.)
Improvements to existing dog parks	65	6.2%	7.7%	18.5%	47.7%	20.0%	3.68 (1.077)
Construction of a new dog park	65	4.6%	12.3%	29.2%	38.5%	15.4%	3.48 (1.047)
Access to extra features	66	6.1%	12.2%	37.9%	36.4%	7.6%	3.27 (0.985)
Increase in (dog park) community events	64	9.4%	12.5%	34.4%	35.9%	7.8%	3.20 (1.072)
City budget cuts	66	12.1%	18.2%	42.4%	25.8%	1.5%	2.86 (0.991)

Figure 29: To what extent would you support or oppose paying a \$25 fee for using Columbia Parks & Recreation dog parks in exchange for the following features?



Numbers to the right of the chart represent item mean (M) scores; 1= Strongly Oppose, 5= Strongly Support

Table 13: To what extent would you support or oppose paying a \$25 fee for using Columbia Parks & Recreation dog parks in exchange for the following features?

	n	Strongly Oppose	Oppose	Neutral	Support	Strongly Support	Mean (S.D.)
Improved terrain/landscaping	64	7.8%	12.5%	26.6%	43.8%	9.4%	3.34 (1.072)
Lighting for extended hours	63	6.3%	14.3%	38.1%	30.2%	11.1%	3.25 (1.047)
Additional seating	64	7.8%	14.1%	29.7%	45.3%	3.1%	3.22 (1.000)
Dog wash station	63	7.9%	15.9%	31.7%	39.7%	4.8%	3.17 (1.025)
Verification of dog vaccines prior to entry	62	9.7%	16.1%	30.6%	35.5%	8.1%	3.16 (1.104)
Restroom facilities	63	9.5%	12.7%	39.7%	30.2%	7.9%	3.14 (1.060)
Agility equipment	63	11.1%	15.9%	38.1%	27.0%	7.9%	3.05 (1.099)
Entry code/key	63	12.7%	15.9%	36.5%	27.0%	7.9%	3.02 (1.129)
Park monitor	62	24.2%	21.0%	37.1%	14.5%	3.2%	2.52 (1.112)

**Appendix E**  
**Brief Report (Twin Lakes)**

**Columbia Parks and Recreation Dog Park Study**  
**Brief Report: Twin Lakes Dog Park**

Lily Bennett  
Sonja Wilhelm Stanis, PhD



**School of Natural Resources**  
University of Missouri

This brief report presents a summary of the onsite visitor survey data collected from Twin Lakes Dog Park May-August 2018 (Response rate 79.3%; n=92)



**Section I: Respondent Profile (Twin Lakes)**

Figure 1: Respondent gender (n=89)

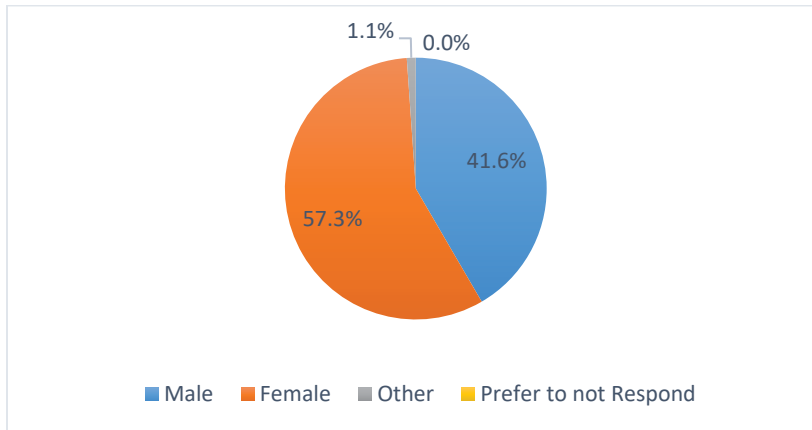


Figure 2: Respondent age groups (n=84)

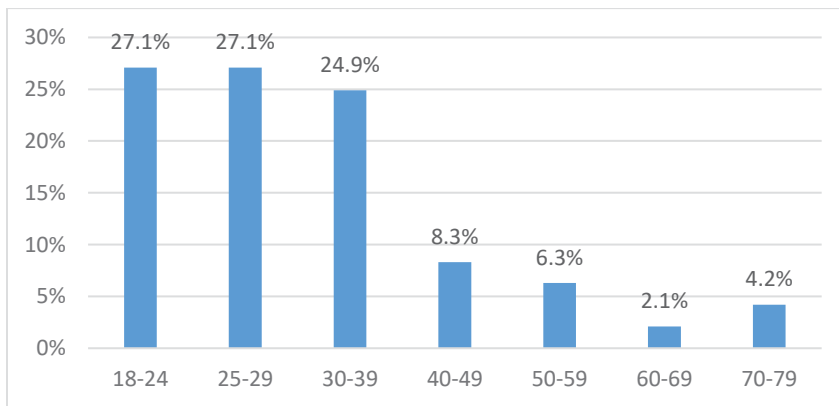


Figure 3: Annual household income before taxes (n=89)

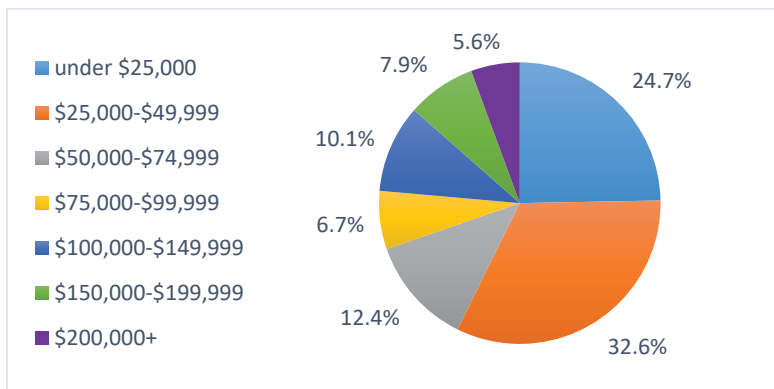


Figure 4: Number of children under 18 in household (n=89)

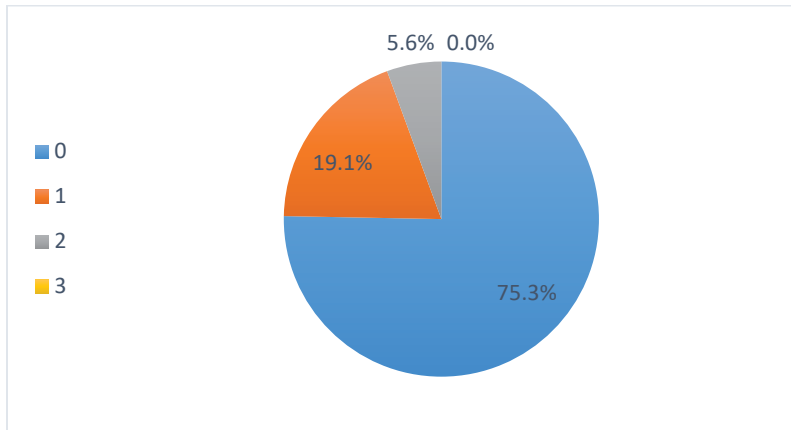


Figure 5: Number of dogs owned (n=89)

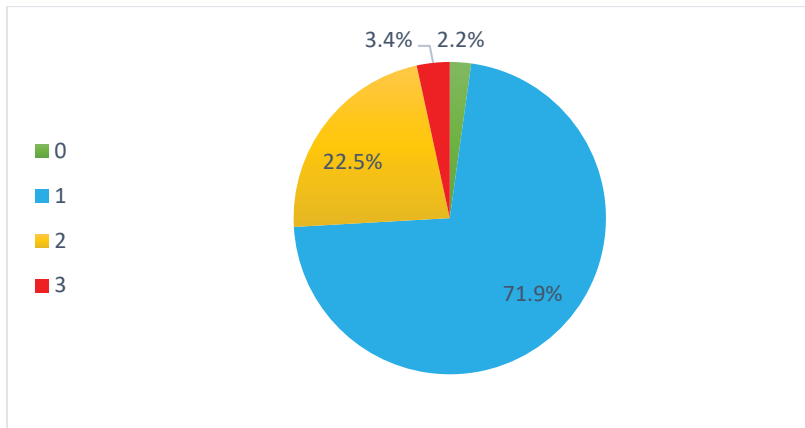


Figure 6: Residence type (n=89)

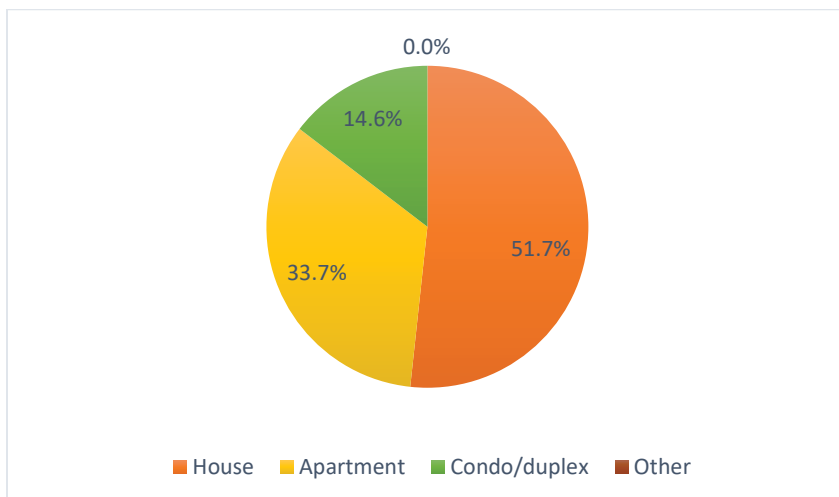


Figure 7: Does your residence have a fenced area for dogs? (n=90)

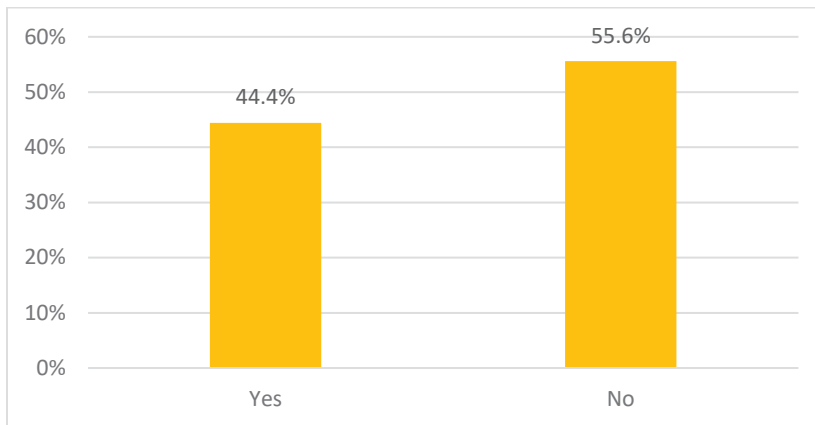


Figure 8: What is your zip code? (n=87)

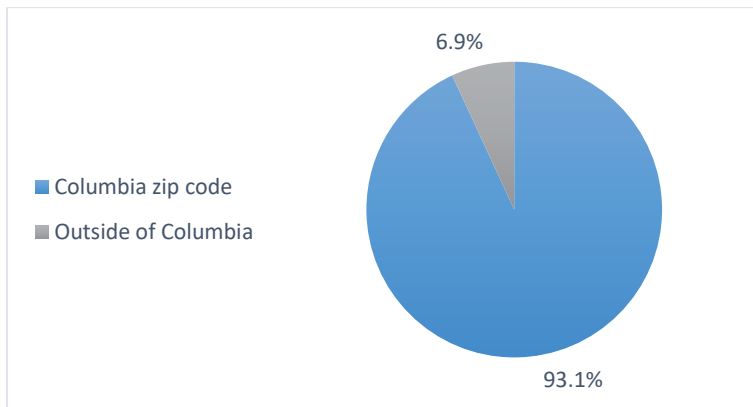
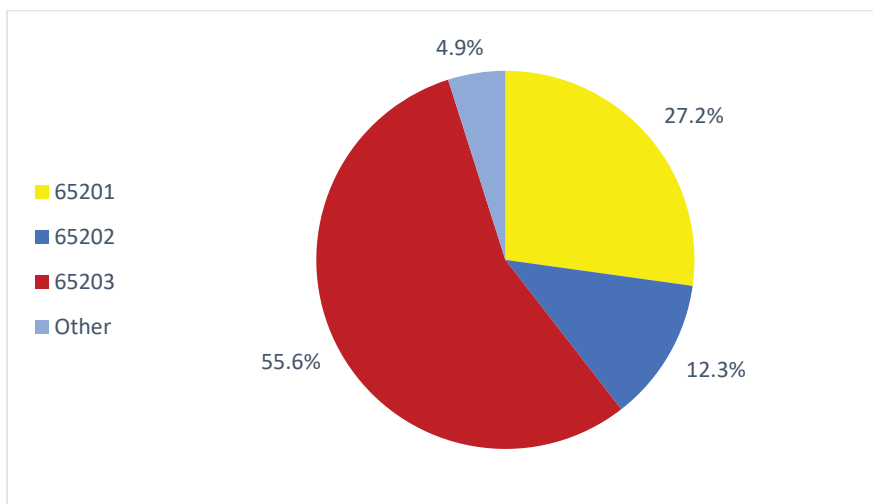


Figure 9: Respondent zip codes (within Columbia) (n=81)



**Section II: Usage and Today's Visit**

Figure 10: Transportation to the dog park (n=91)

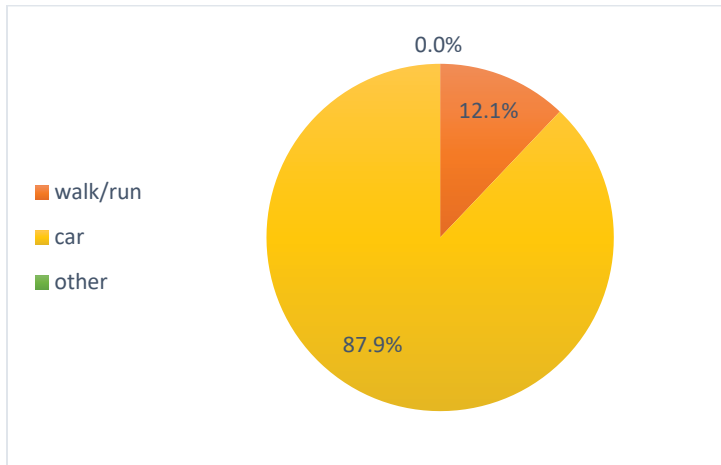


Figure 11: Travel time (minutes) (n=90)

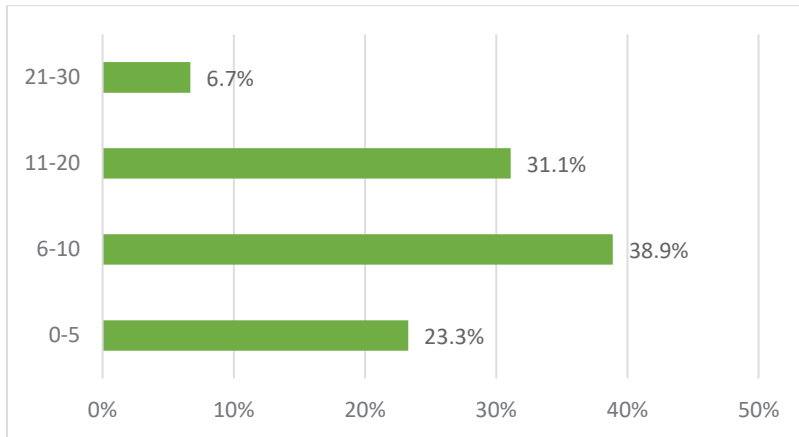


Figure 12: Miles traveled to the dog park (n=87)

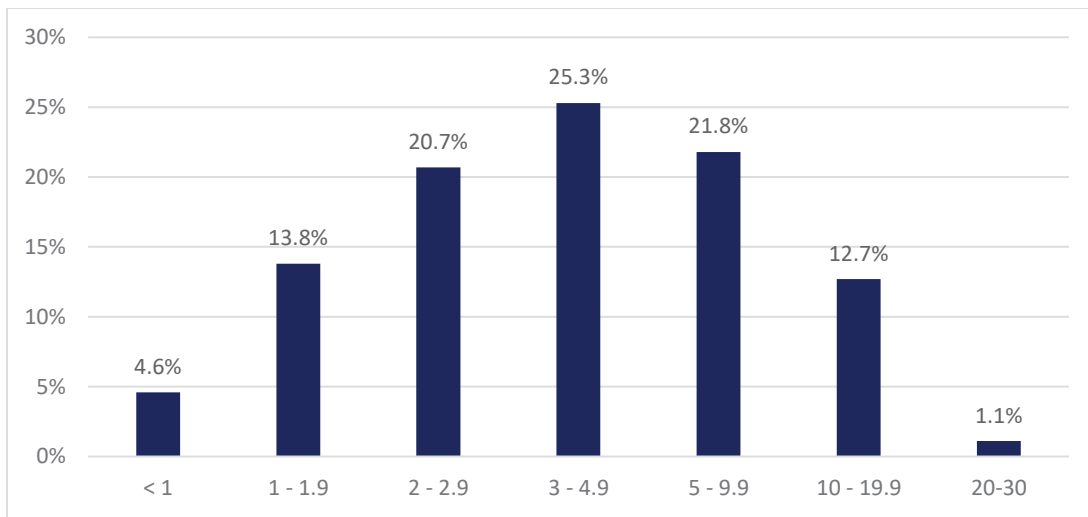


Figure 13: Length of stay at the dog park (minutes) (n=89)

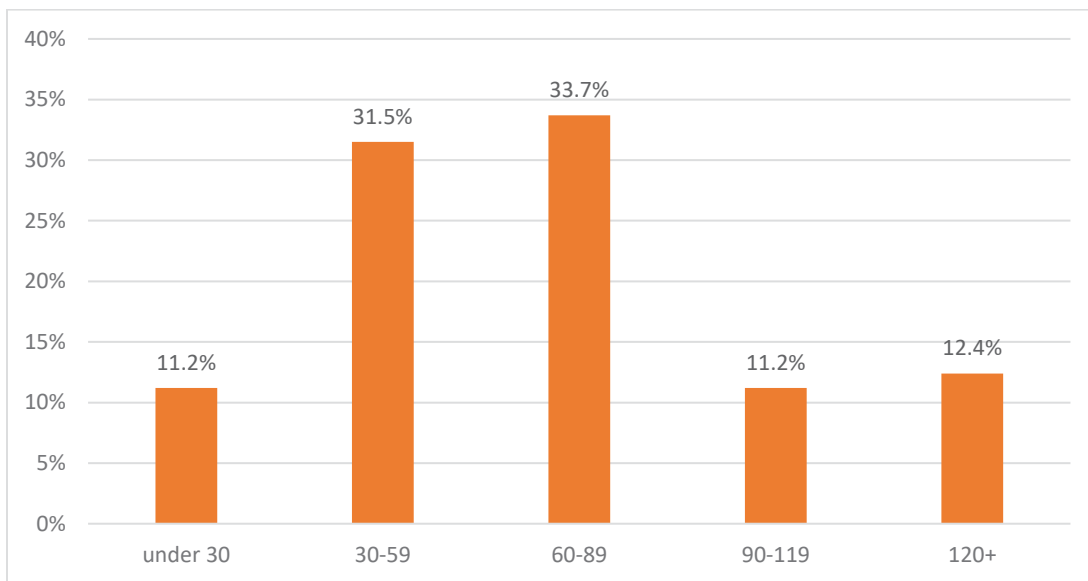


Figure 14: Are you here with dog(s) today? (n=92)

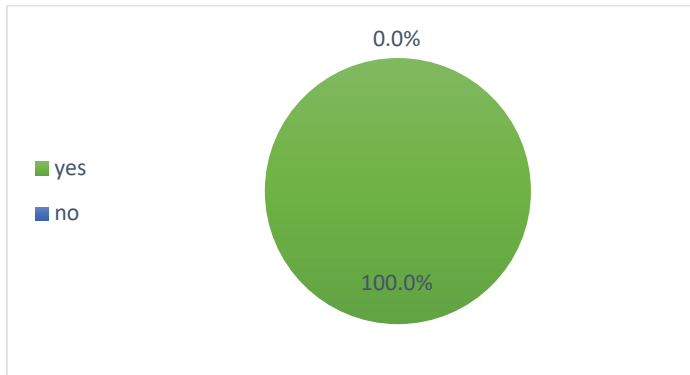


Figure 15: If you are here with a dog(s), then how many dog(s) are you here with today? (n=92)

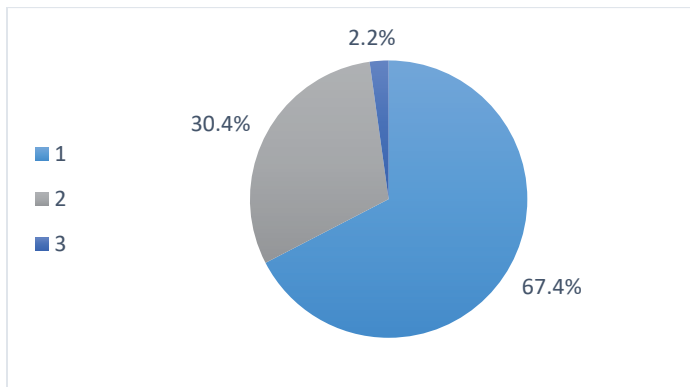


Figure 16: If you are here with a dog(s), are you the owner of the dog(s)? (n=91)

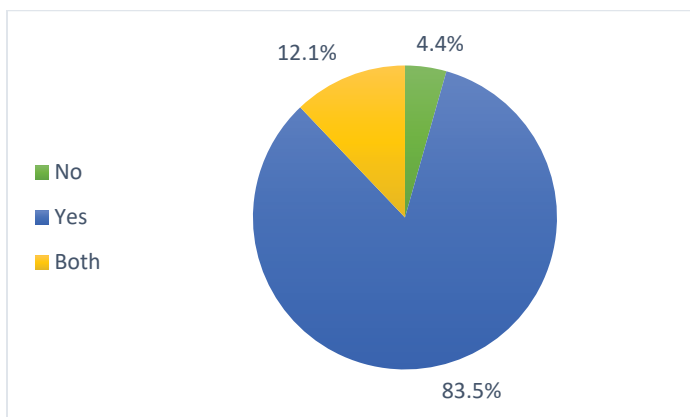
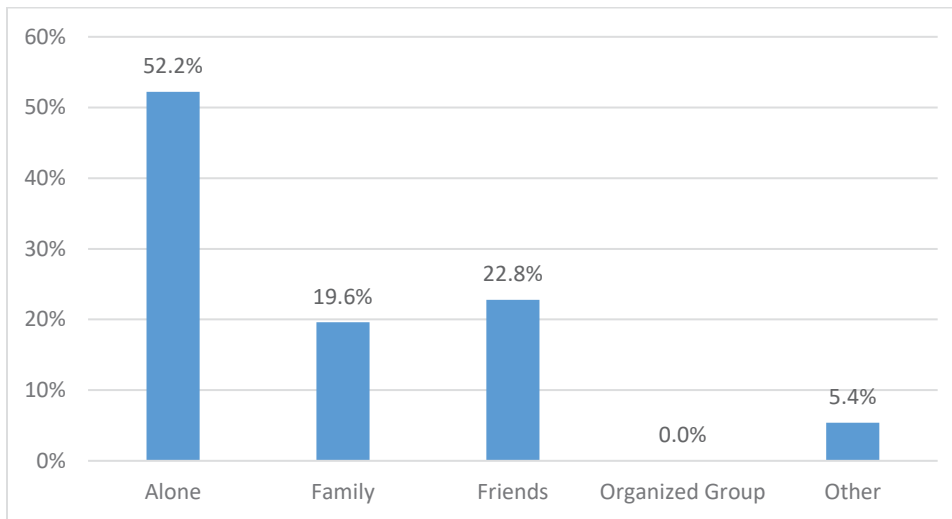


Figure 17: With whom are you visiting the dog park today? (check all that apply) (n=92)



Most common “Other” response is “significant other”

Table 1: Place Attachment

	n	Mean	S.D.
<b>Place Identity</b>		<b>4.00</b>	<b>.246</b>
This dog park means a lot to me	92	4.26	.693
I am very attached to this dog park	91	3.98	.802
I identify strongly with this dog park	90	3.77	.822
<b>Place Dependence</b>		<b>3.93</b>	<b>.093</b>
This dog park is the best place for dogs	92	3.99	.749
I enjoy recreating at this dog park more than any other dog park	92	3.97	.687
I wouldn’t substitute any other dog park for what I do here	91	3.82	.709
<b>Place Bonding</b>		<b>3.90</b>	<b>.297</b>
I have a lot of fond memories about this dog park	91	4.11	.706
I bring my family/friends to this dog park	90	4.03	.841
I have a special connection with the people who come to this dog park	89	3.56	.852

1=Strongly Disagree, 5=Strongly Agree

**Section III: Columbia Parks and Recreation Dog Parks**

Figure 18: Park visitation

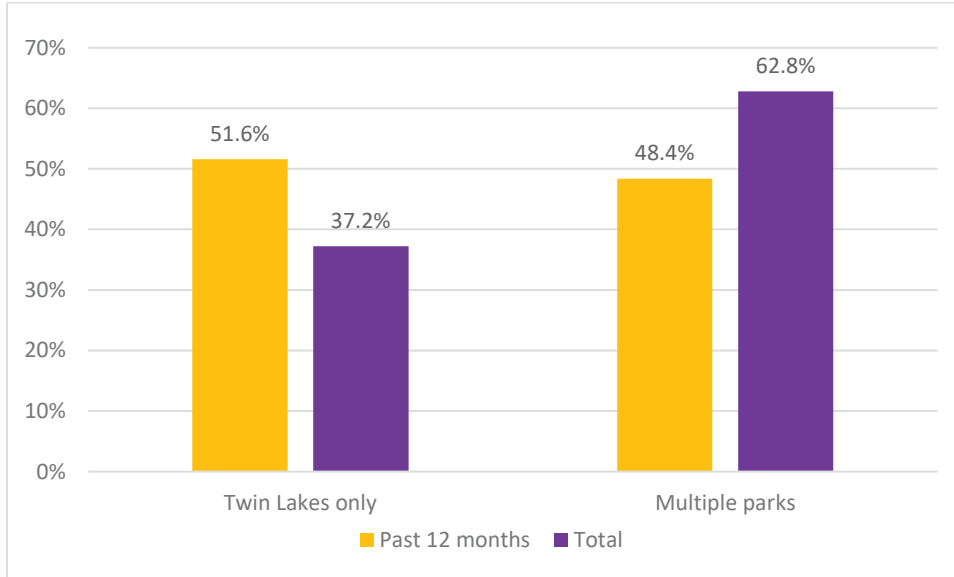


Table 2: Park visitation

	n	Twin Lakes only	Multiple parks
Past 12 months	91	51.6%	48.4%
Total	86	37.2%	62.8%



Figure 19: Average (mean) number of visits to each dog park

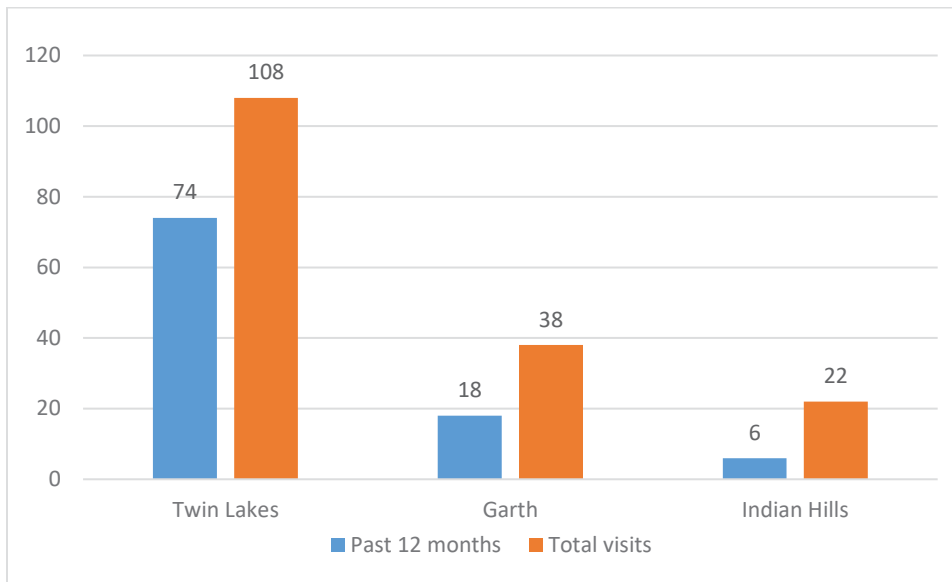


Table 3: Average number of visits to each dog park *over the past 12 months*

	n	Minimum	Maximum	Median	Mean
Twin Lakes	90	1	700	25	74
Garth	43	1	250	5	18
Indian Hills	7	1	30	2	6

“Mean” and “Median” are rounded to the nearest whole number  
 Respondents who indicated they had not visited the dog park were excluded from the analysis.

Table 4: Average number of *total* visits to each dog park

	n	Minimum	Maximum	Median	Mean
Twin Lakes	81	1	1000	45	108
Garth	53	1	750	6	38
Indian Hills	14	1	100	4	22

“Mean” and “Median” are rounded to the nearest whole number  
 Respondents who indicated they had not visited the dog park were excluded from the analysis.

Figure 20: Average (mean) number of *years* coming to each dog park

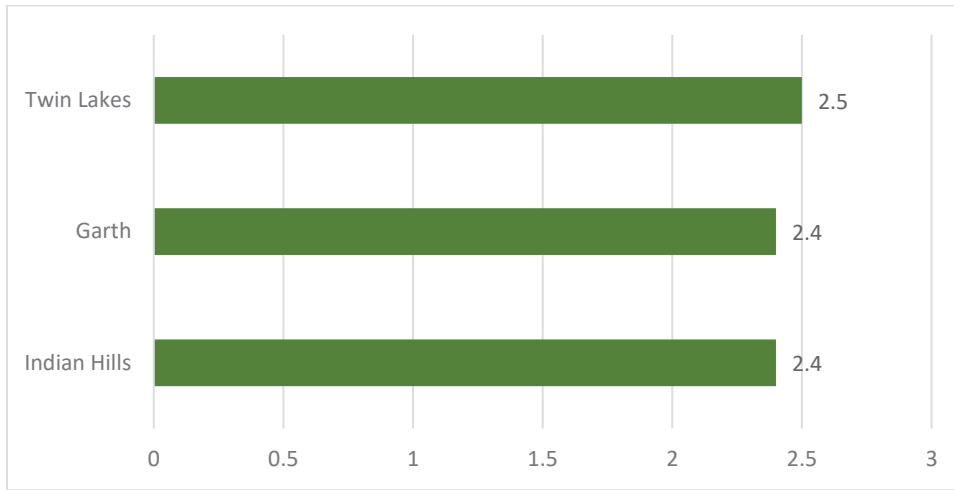


Table 5: Average number of years coming to each dog park

	n	Minimum	Maximum	Median	Mean
Twin Lakes	81	0.2	12	2	2.5
Garth	48	0.3	10	2	2.4
Indian Hills	14	1	6	2	2.4

Respondents who indicated they had not visited the dog park were excluded from the analysis

Figure 21: Park visitation per season

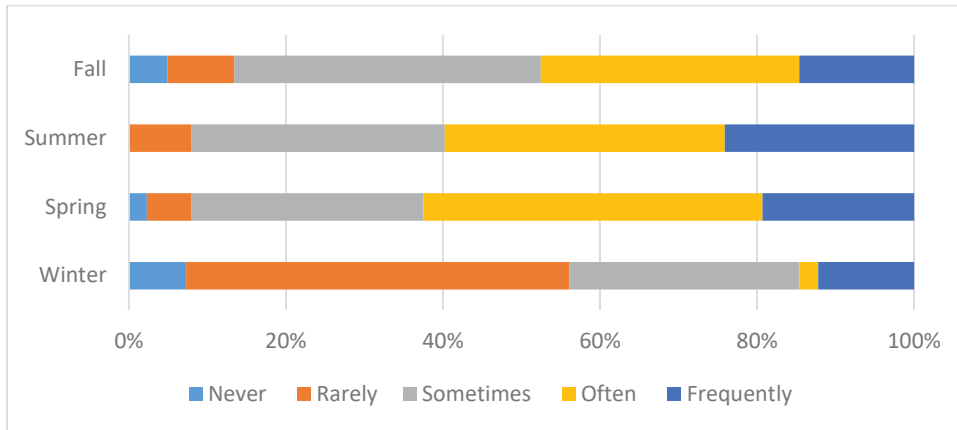


Table 6: Park visitation per season

	n	Never (0)	Rarely (1-4)	Sometimes (5-19)	Often (20-49)	Frequently (50+)
Fall	82	4.9%	8.5%	39.0%	32.9%	14.6%
Summer	87	0.0%	8.0%	32.2%	35.6%	24.1%
Spring	88	2.3%	5.7%	29.5%	43.2%	19.3%
Winter	82	7.3%	48.8%	29.3%	2.4%	12.2%

Figure 22: Weekly visitation times (select all that apply) (n=92)

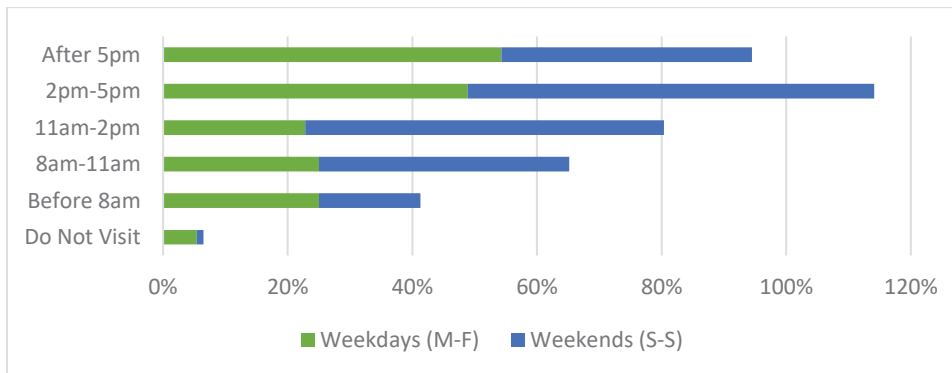
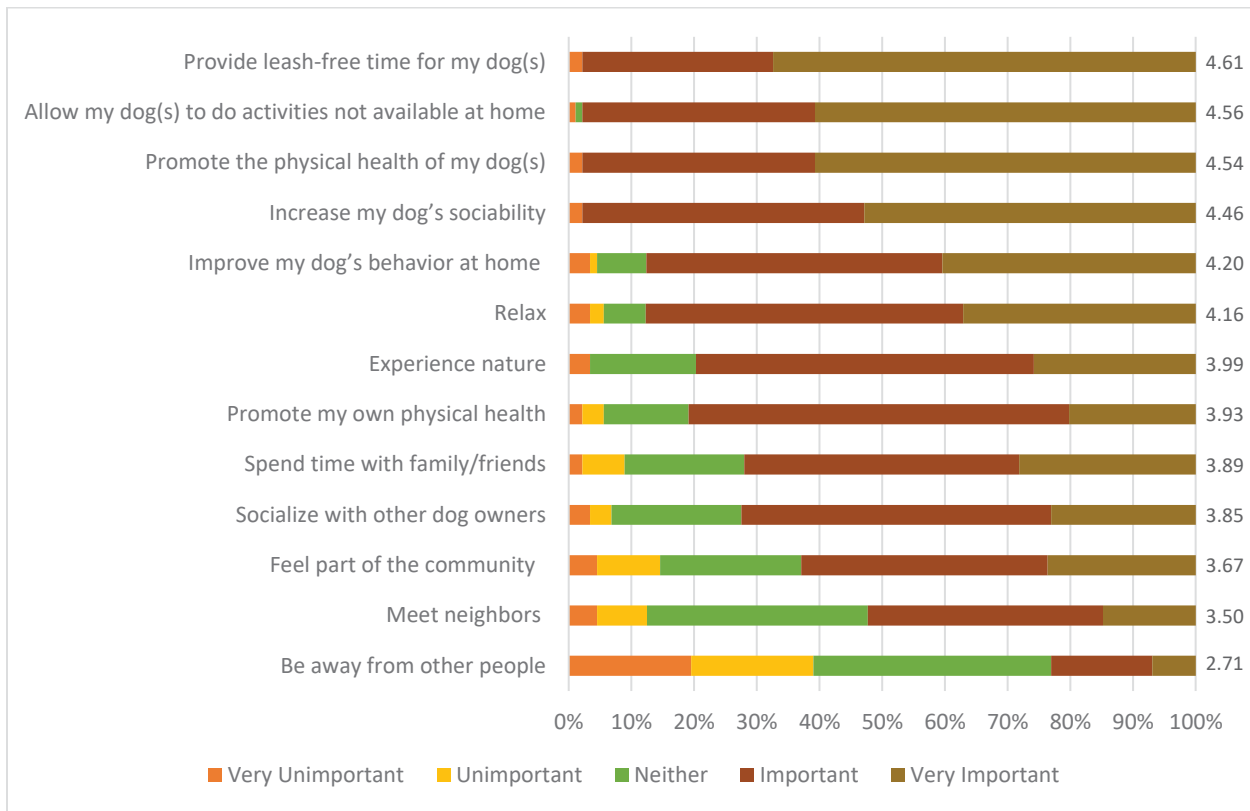


Table 7: Weekly visitation times (select all that apply)

	Do Not Visit	Before 8am	8am-11am	11am-2pm	2pm-5pm	After 5pm
Weekdays (M-F)	5.4%	25.0%	25.0%	22.8%	48.9%	54.3%
Weekends (S-S)	1.1%	16.3%	40.2%	57.6%	65.2%	40.2%

Figure 23: Motivations for choosing a dog park

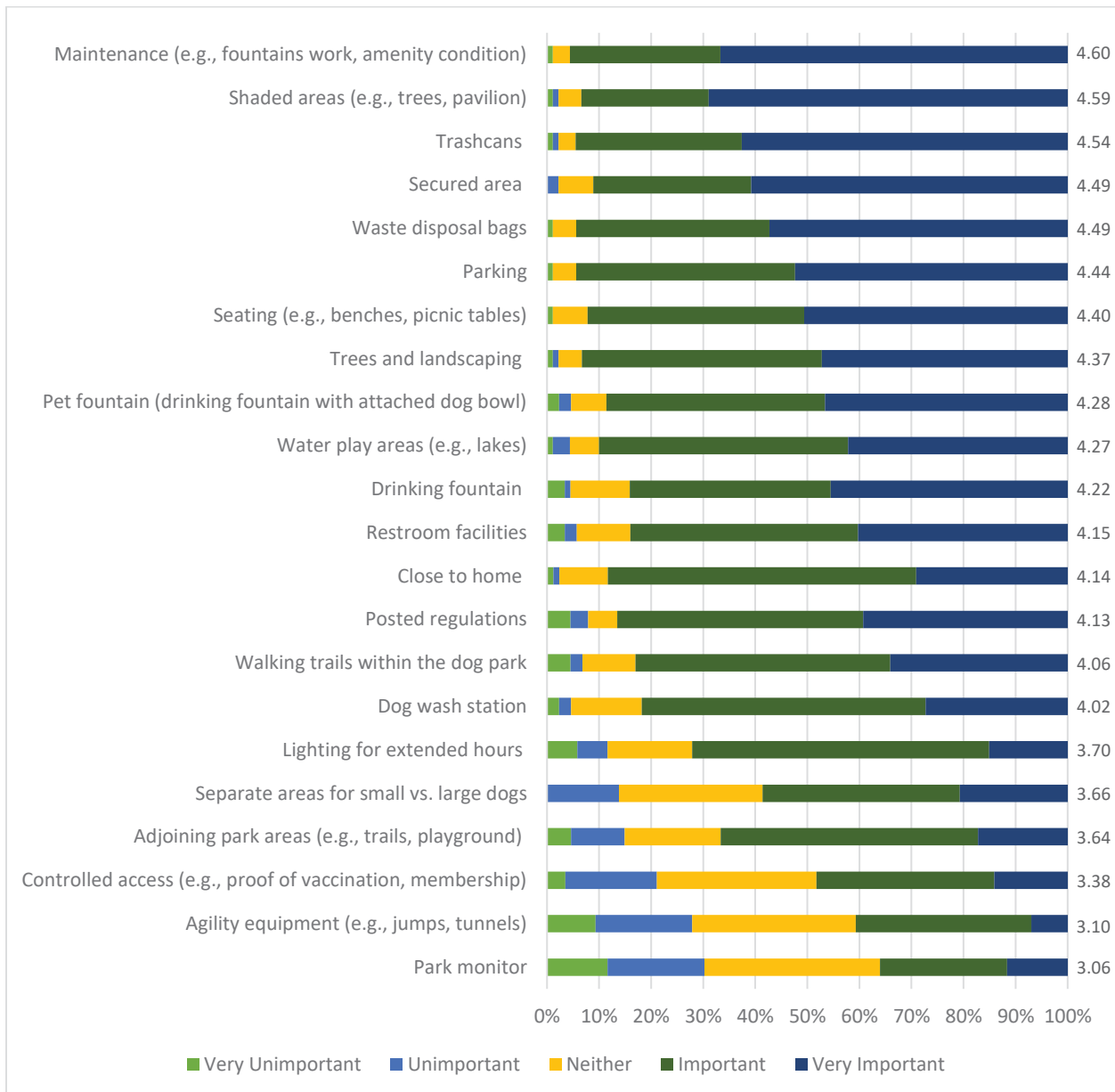


Numbers to the right of the chart represent item mean (M) scores; 1=Very Unimportant, 5=Very Important

Table 8: Motivations for choosing a dog park

	n	Very Unimportant	Unimportant	Neither	Important	Very Important	Mean (S.D.)
Provide leash-free time for my dog(s)	89	2.2%	0.0%	0.0%	30.4%	67.4%	4.61 (0.717)
Allow my dog(s) to do activities not available at home	89	1.1%	0.0%	1.1%	37.1%	60.7%	4.56 (0.639)
Promote the physical health of my dog(s)	89	2.2%	0.0%	0.0%	37.1%	60.7%	4.54 (0.724)
Increase my dog’s sociability	89	2.2%	0.0%	0.0%	44.9%	52.8%	4.46 (0.724)
Improve my dog’s behavior at home	89	3.4%	1.1%	7.9%	47.2%	40.4%	4.20 (0.894)
Relax	89	3.4%	2.2%	6.7%	50.6%	37.1%	4.16 (0.903)
Experience nature	89	3.4%	0.0%	16.9%	53.9%	25.8%	3.99 (0.859)
Promote my own physical health	89	2.2%	3.4%	13.5%	60.7%	20.2%	3.93 (0.823)
Spend time with family/friends	89	2.2%	6.7%	19.1%	43.8%	28.1%	3.89 (0.970)
Socialize with other dog owners	87	3.4%	3.4%	20.7%	49.4%	23.0%	3.85 (0.934)
Feel part of the community	89	4.5%	10.1%	22.5%	39.3%	23.6%	3.67 (1.085)
Meet neighbors	88	4.5%	8.0%	35.2%	37.5%	14.8%	3.50 (0.994)
Be away from other people	87	19.5%	19.5%	37.9%	16.1%	6.9%	2.71 (1.160)

Figure 24: Importance of dog park attributes

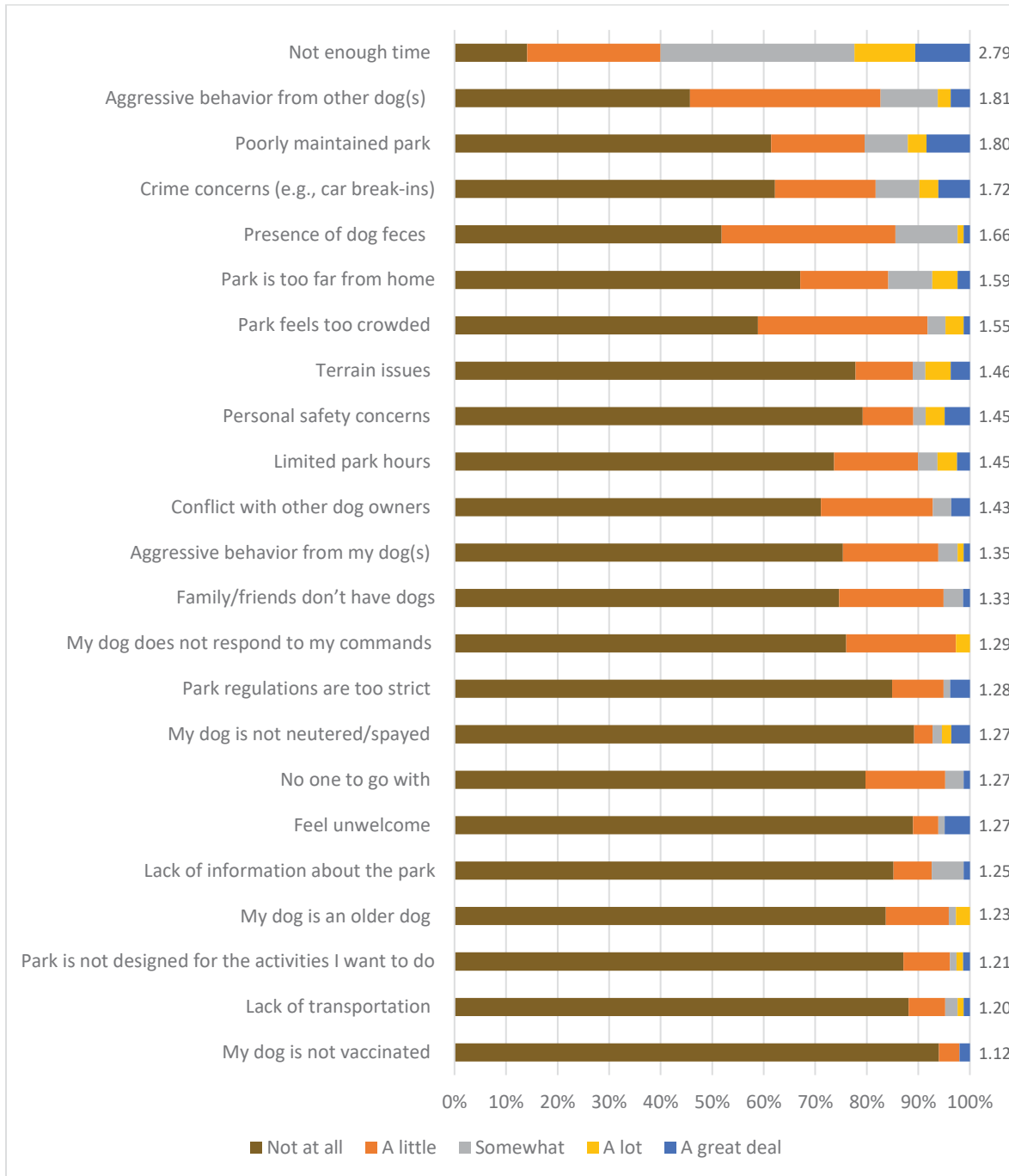


Numbers to the right of the chart represent item mean (M) scores; 1=Very Unimportant, 5=Very Important

Table 9: Importance of dog park attributes

	n	Very Unimportant	Unimportant	Neither	Important	Very Important	Mean (S.D.)
Maintenance (e.g., fountains work, amenity condition)	90	1.1%	0.0%	3.3%	28.9%	66.7%	4.60 (0.667)
Shaded areas (e.g., trees, pavilion)	90	1.1%	1.1%	4.4%	24.4%	68.9%	4.59 (0.733)
Trashcans	91	1.1%	1.1%	3.3%	31.9%	62.6%	4.54 (0.720)
Waste disposal bags	89	1.1%	0.0%	4.5%	37.1%	57.3%	4.49 (0.693)
Secured area (e.g., adequate fencing, double gated entrance)	89	0.0%	2.2%	6.7%	30.3%	60.7%	4.49 (0.725)
Parking	88	1.1%	0.0%	4.5%	42.0%	52.3%	4.44 (0.692)
Seating (e.g., benches, picnic tables)	89	1.1%	0.0%	6.7%	41.6%	50.6%	4.40 (0.719)
Trees and landscaping	89	1.1%	1.1%	4.5%	46.1%	47.2%	4.37 (0.729)
Pet fountain (drinking fountain with attached dog bowl)	88	2.3%	2.3%	6.8%	42.0%	46.6%	4.28 (0.870)
Water play areas (e.g., lakes)	90	1.1%	3.3%	5.6%	47.8%	42.2%	4.27 (0.804)
Drinking fountain	88	3.4%	1.1%	11.4%	38.6%	45.5%	4.22 (0.940)
Restroom facilities	87	3.4%	2.3%	10.3%	43.7%	40.2%	4.15 (0.947)
Close to home	86	1.2%	1.2%	9.3%	59.3%	29.1%	4.14 (0.722)
Posted regulations	89	4.5%	3.4%	5.6%	47.2%	39.3%	4.13 (0.991)
Walking trails within the dog park	88	4.5%	2.3%	10.2%	48.9%	34.1%	4.06 (0.975)
Dog wash station	88	2.3%	2.3%	13.6%	54.5%	27.3%	4.02 (0.844)
Lighting for extended hours	86	5.8%	5.8%	16.3%	57.0%	15.1%	3.70 (0.995)
Separate areas for small vs. large dogs	87	0.0%	13.8%	27.6%	37.9%	20.7%	3.66 (0.962)
Adjoining park areas (e.g., trails, playground)	87	4.6%	10.3%	18.4%	49.4%	17.2%	3.64 (1.034)
Controlled access (e.g., proof of vaccination, membership)	85	3.5%	17.6%	30.6%	34.1%	14.1%	3.38 (1.046)
Agility equipment (e.g., jumps, tunnels)	86	9.3%	18.6%	31.4%	33.7%	7.0%	3.10 (1.085)
Park monitor	86	11.6%	18.6%	33.7%	24.4%	11.6%	3.06 (1.172)

Figure 25: Constraints to visitation



Numbers to the right of the chart represent item mean (M) scores; 1=Not at all, 5=A great deal

Table 10: Constraints to visitation

	n	Not at all	A little	Somewhat	A lot	A great deal	Mean (S.D.)
Not enough time	85	14.1%	25.9%	37.6%	11.8%	10.6%	2.79 (1.156)
Aggressive behavior from other dog(s)	81	45.7%	37.0%	11.1%	2.5%	3.7%	1.81 (0.989)
Poorly maintained park	83	61.4%	18.1%	8.4%	3.6%	8.4%	1.80 (1.257)
Crime concerns (e.g., car break-ins)	82	62.2%	19.5%	8.5%	3.7%	6.1%	1.72 (1.158)
Presence of dog feces	83	51.8%	33.7%	12.0%	1.2%	1.2%	1.66 (0.830)
Park is too far from home	82	67.1%	17.1%	8.5%	4.9%	2.4%	1.59 (1.006)
Park feels too crowded	85	58.8%	32.9%	3.5%	3.5%	1.2%	1.55 (0.824)
Terrain issues (e.g., lack of grass, erosion)	81	77.8%	11.1%	2.5%	4.9%	3.7%	1.46 (1.025)
Limited park hours	80	73.8%	16.3%	3.8%	3.8%	2.5%	1.45 (0.926)
Personal safety concerns (e.g., fear of injury)	82	79.3%	9.8%	2.4%	3.7%	4.9%	1.45 (1.056)
Conflict with other dog owners	83	71.1%	21.7%	3.6%	0.0%	3.6%	1.43 (0.872)
Aggressive behavior from my dog(s)	81	75.3%	18.5%	3.7%	1.2%	1.2%	1.35 (0.727)
Family/friends don’t have dogs	79	74.7%	20.3%	3.8%	0.0%	1.3%	1.33 (0.674)
My dog does not respond to my commands	75	76.0%	21.3%	0.0%	2.7%	0.0%	1.29 (0.610)
Park regulations are too strict	80	85.0%	10.0%	1.3%	0.0%	3.8%	1.28 (0.826)
Feel unwelcome	82	89.0%	4.9%	1.2%	0.0%	4.9%	1.27 (0.903)
No one to go with	84	79.8%	15.5%	3.6%	0.0%	1.2%	1.27 (0.647)
My dog is not neutered/spayed	55	89.1%	3.6%	1.8%	1.8%	3.6%	1.27 (0.891)
Lack of information about the park	81	85.2%	7.4%	6.2%	0.0%	1.2%	1.25 (0.681)
My dog is an older dog	74	83.8%	12.2%	1.4%	2.7%	0.0%	1.23 (0.609)
Park is not designed for the activities I want to do	78	87.2%	9.0%	1.3%	1.3%	1.3%	1.21 (0.652)
Lack of transportation	84	88.1%	7.1%	2.4%	1.2%	1.2%	1.20 (0.655)
My dog is not vaccinated	50	94.0%	4.0%	0.0%	0.0%	2.0%	1.12 (0.594)



**Section IV: Fees in Dog Parks**

Figure 26: What would you consider a fair annual price for using Columbia Parks & Recreation dog parks? (n=88)

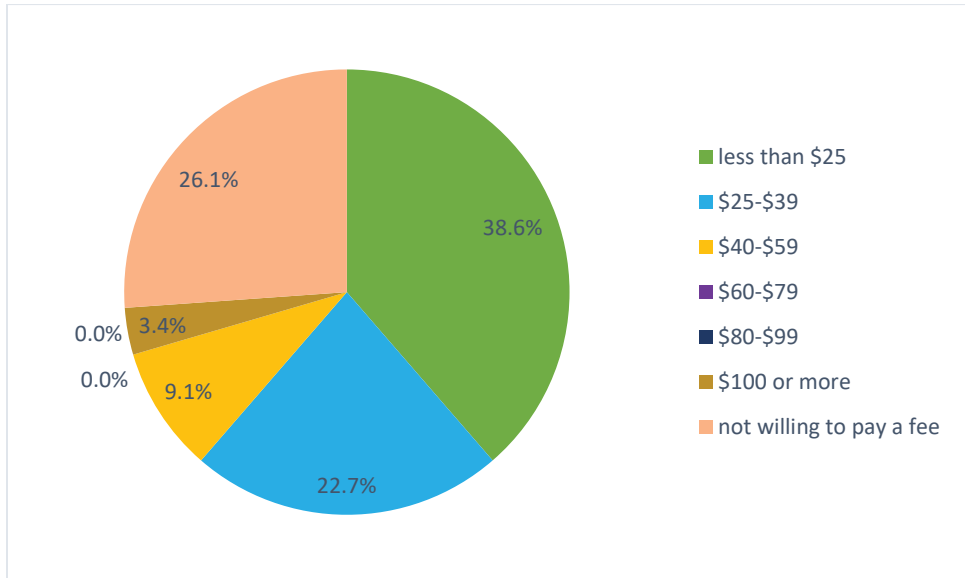
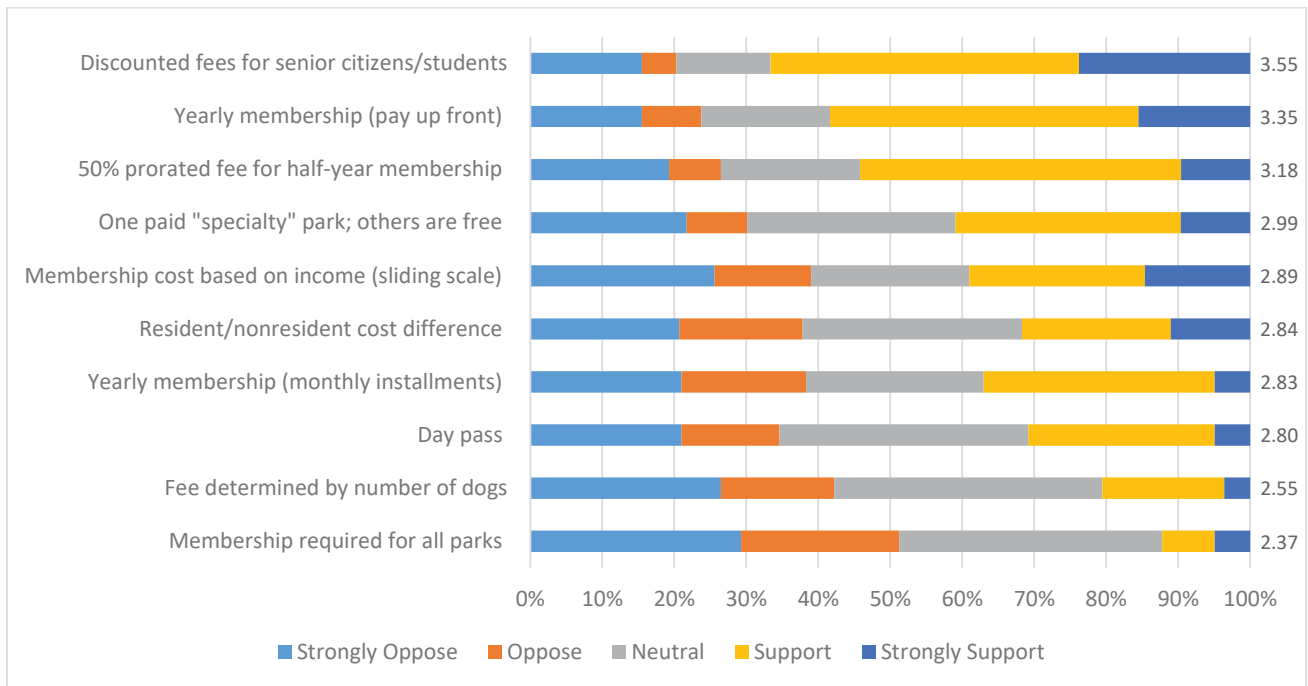


Figure 27: To what extent would you support or oppose the following fee structures?

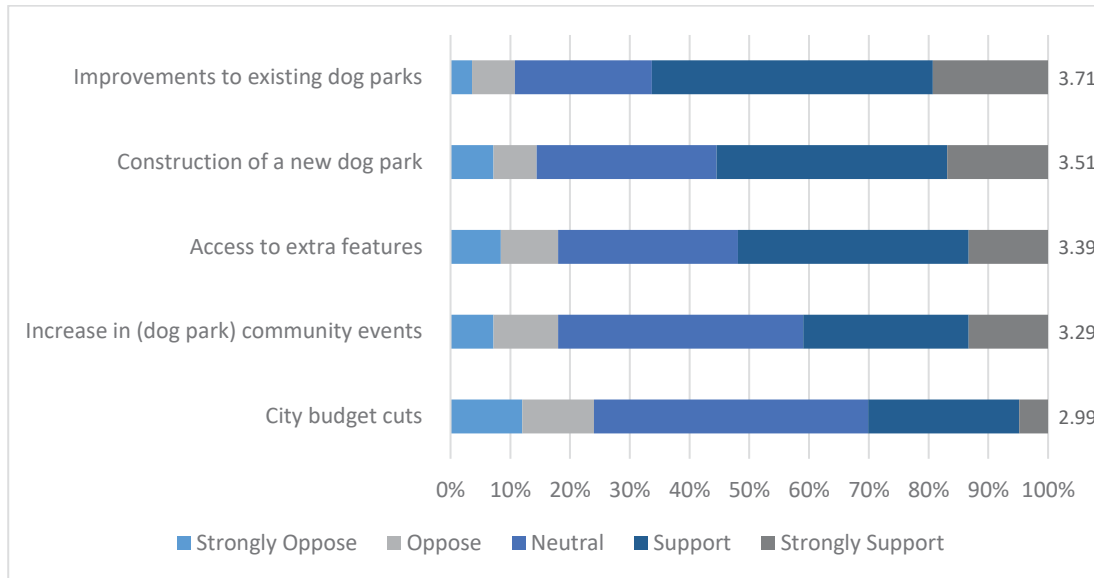


Numbers to the right of the chart represent item mean (M) scores; 1= Strongly Oppose, 5= Strongly Support

Table 11: To what extent would you support or oppose the following fee structures?

	n	Strongly Oppose	Oppose	Neutral	Support	Strongly Support	Mean (S.D.)
Discounted fees for senior citizens/students	84	15.5%	4.8%	13.1%	42.9%	23.8%	3.55 (1.330)
Yearly membership (pay up front)	84	15.5%	8.3%	17.9%	42.9%	15.5%	3.35 (1.285)
50% prorated fee for half-year membership	83	19.3%	7.2%	19.3%	44.6%	9.6%	3.18 (1.289)
One paid "specialty" park; others are free	83	21.7%	8.4%	28.9%	31.3%	9.6%	2.99 (1.293)
Membership cost based on income (sliding scale)	82	25.6%	13.4%	22.0%	24.4%	14.6%	2.89 (1.414)
Resident/nonresident cost difference	82	20.7%	17.1%	30.5%	20.7%	11.0%	2.84 (1.281)
Yearly membership (monthly installments)	81	21.0%	17.3%	24.7%	32.1%	4.9%	2.83 (1.233)
Day pass	81	21.0%	13.6%	34.6%	25.9%	4.9%	2.80 (1.188)
Fee determined by number of dogs	83	26.5%	15.7%	37.3%	16.9%	3.6%	2.55 (1.161)
Membership required for all parks	82	29.3%	22.0%	36.6%	7.3%	4.9%	2.37 (1.128)

Figure 28: For each of the following circumstances, to what extent would you support or oppose paying a \$25 fee for using Columbia Parks & Recreation dog parks?

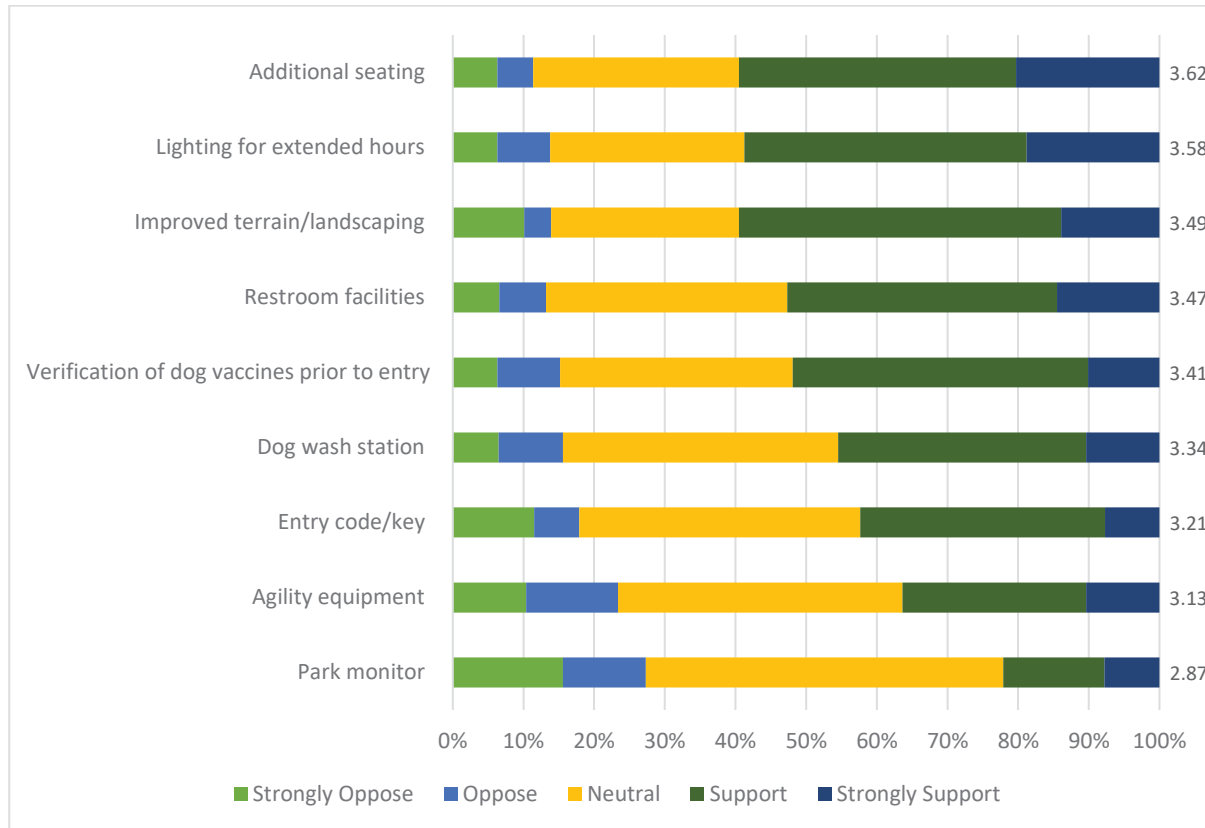


Numbers to the right of the chart represent item mean (M) scores; 1= Strongly Oppose, 5= Strongly Support

Table 12: For each of the following circumstances, to what extent would you support or oppose paying a \$25 fee for using Columbia Parks & Recreation dog parks?

	n	Strongly Oppose	Oppose	Neutral	Support	Strongly Support	Mean (S.D.)
Improvements to existing dog parks	83	3.6%	7.2%	22.9%	47.0%	19.3%	3.71 (0.982)
Construction of a new dog park	83	7.2%	7.2%	30.1%	38.6%	16.9%	3.51 (1.086)
Access to extra features	83	8.4%	9.6%	30.1%	38.6%	13.3%	3.39 (1.102)
Increase in (dog park) community events	83	7.2%	10.8%	41.0%	27.7%	13.3%	3.29 (1.065)
City budget cuts	83	12.0%	12.0%	45.8%	25.3%	4.8%	2.99 (1.030)

Figure 29: To what extent would you support or oppose paying a \$25 fee for using Columbia Parks & Recreation dog parks in exchange for the following features?



Numbers to the right of the chart represent item mean (M) scores; 1= Strongly Oppose, 5= Strongly Support

Table 13: To what extent would you support or oppose paying a \$25 fee for using Columbia Parks & Recreation dog parks in exchange for the following features?

	n	Strongly Oppose	Oppose	Neutral	Support	Strongly Support	Mean (S.D.)
Additional seating	79	6.3%	5.1%	29.1%	39.2%	20.3%	3.62 (1.066)
Lighting for extended hours	80	6.3%	7.5%	27.5%	40.0%	18.8%	3.58 (1.077)
Improved terrain/landscaping	79	10.1%	3.8%	26.6%	45.6%	13.9%	3.49 (1.108)
Restroom facilities	76	6.6%	6.6%	34.2%	38.2%	14.5%	3.47 (1.039)
Verification of dog vaccines prior to entry	79	6.3%	8.9%	32.9%	41.8%	10.1%	3.41 (1.007)
Dog wash station	77	6.5%	9.1%	39.0%	35.1%	10.4%	3.34 (1.008)
Entry code/key	78	11.5%	6.4%	39.7%	34.6%	7.7%	3.21 (1.073)
Agility equipment	77	10.4%	13.0%	40.3%	26.0%	10.4%	3.13 (1.104)
Park monitor	77	15.6%	11.7%	50.6%	14.3%	7.8%	2.87 (1.092)