

EDUCATIONAL TRACK PLANNING AND INNOVATIVE GOVERNMENT NPC188215 – Room 03

American Planning Association
National Conference
New Orleans, LA
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Recreation for Residential Development

Panel

Montgomery County Planning Department

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Grace E. Fielder, President, P.L.A., A.I.C.P., A.P.A.



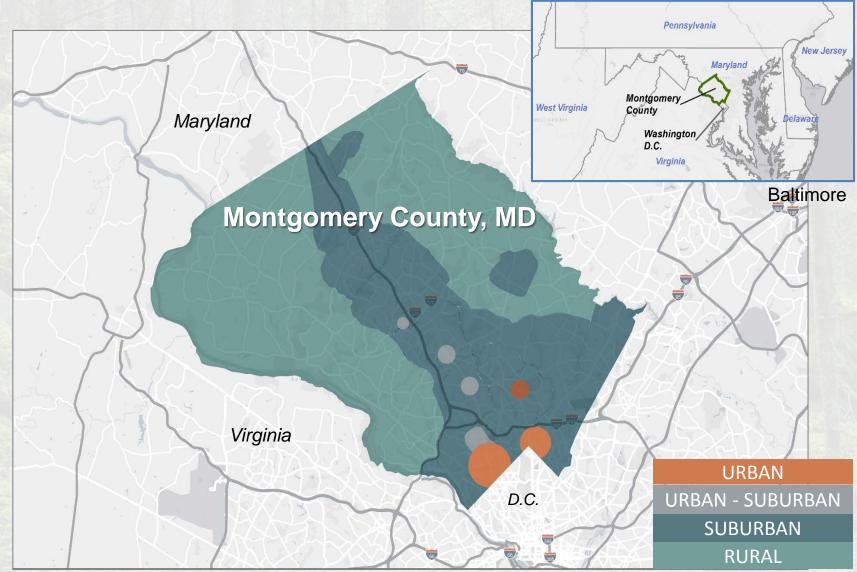






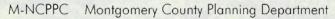


Recreation for Diverse Land Use Patterns



















What are Recreational Guidelines?

- A set of guidelines for housing development to assure recreation opportunities for future residents
 - Required by Zoning Ordinance
- Initially established by the Montgomery Planning Board in 1992 to supplement public sector recreation facilities
- Guidelines establish predictable requirements to ensure safe, adequate and efficient recreational facilities for private residential development in the County
- Applied to regulatory review of subdivision and site plans



http://montgomeryplanning.org/planning/functional-planning/recreation-guidelines/















The Big Picture: Integrating Recreation and Planning Sectors

- Urban Design
- Infill Development
- Infrastructure Planning
- Transportation
- Environmental
- Historic Preservation















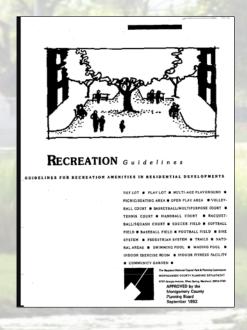






25 years since last studied (1992)





New Zoning Ordinance (2014)



















Changes in Development Types







Urban "infill"



















- Changing recreation patterns and activity types
- Link between recreation and public health
- New facilities for range of ages and abilities
- Planning research and technology















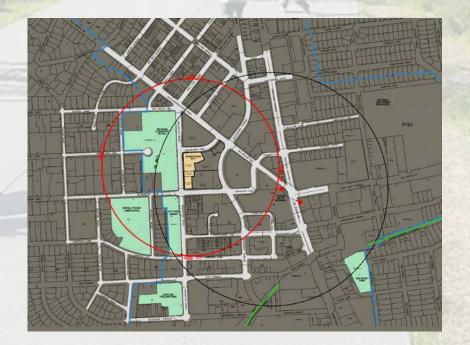








- Developers need transparency, flexibility, predictability
- Greater accuracy in analysis of scale, density for infill building
- Location and distance to existing public facilities













www.mcatlas.org/recreation

The Web Tool: A Point-Based System

Quantitative system from 1992 Guidelines

(Demand + Supply = Match)

- Transparent process
- Predictable, consistent accounting
- Scenario comparisons facility choices
- Geo-spatial data location based
- Master & Sector Plans: Public Recreation Open Space Plan

DEMAND

STEP 1: CALCULATE DEMAND

STEP 2: MAP LOCATION

SUPPLY

MATCH

STEP 5: EXPORT SOLUTION

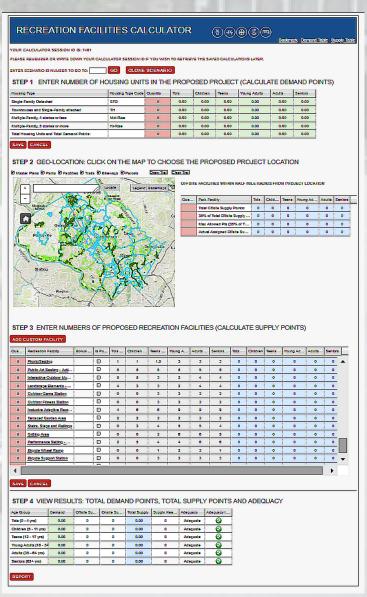


TOOLS FOR RECREATION PLAI

www.mcatlas.org/recreation

Web Tool Design

- Intuitive, easy-to-use tool
- No log-in, user-prompted
- Bookmark scenarios















www.mcatlas.org/recreation

Web Tool Design: Step 1

Demand: # Dwelling Units, Housing Types, Age Groups

RECREATION FACILITIES CALCULATOR



Bookmark Demand Table Supply Ta

YOUR CALCULATOR SESSION ID IS: 7359

PLEASE REMEMBER OR WRITE DOWN YOUR CALCULATOR SESSION ID IF YOU WISH TO RETRIEVE THE SAVED CALCULATIONS LATER.

ENTER SCENARIO ID NUMBER TO GO TO:

GO

CLONE SCENARIO

STEP 1 ENTER NUMBER OF HOUSING UNITS IN THE PROPOSED PROJECT (CALCULATE DEMAND POINTS)

Housing Type	Housing Type Code	Quantity	Tots	Children	Teens	Young Adults	Adults	Seniors
Single-Family Detached	SFD	29	4.35	10.15	10.15	7.83	21.17	4.06
Townhouses and Single-Family attached	TH	5	0.70	1.10	0.80	2.65	3.65	0.55
Multiple-Family, 4 stories or less	Mid-Rise	0	0.00	0.00	0.00	0.00	0.00	0.00
Multiple-Family, 5 stories or more	Hi-Rise	0	0.00	0.00	0.00	0.00	0.00	0.00
Total Housing Units and Total Demand Points:		34	5.05	11.25	10.95	10.48	24.82	4.61

SAVE

CANCEL







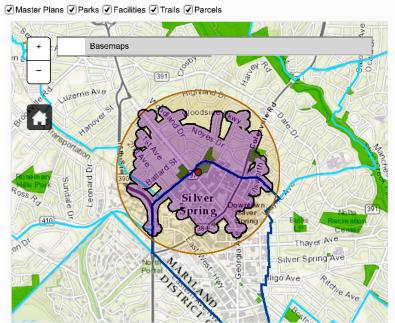


www.mcatlas.org/recreation

Web Tool Design: Step 2

- Geolocation
- Existing Public Facilities: Parks, Recreation

STEP 2 GEO-LOCATION: CLICK ON THE MAP TO CHOOSE THE PROPOSED PROJECT LOCATION



OFFSITE FACILITIES WITHIN HALF MILE RADIUS FROM PROJECT LOCATION

Quantity	Park Facility	Tots	Children	Teens	Young Adults	Adults	Seniors
1	Basketball Ct	3	10	15	12	6	2.5
1	Gazebo	5	5	3	2	4	4
1	Handball Ct	0	1.5	10	20	20	2
1	Trail System	1.28	2.28	0.93	12.54	10.59	2.72
1	Skate Park	0	6	10	12	7	1
2	Tennis Ct	0	3	20	32	24	6
3	Playground	0	27	9	6	9	6
	Total Offsite Supply Points	9.28	54.78	67.93	96.54	80.59	24.22
	35% of Total Offsite Supply	3.25	19.17	23.78	33.79	28.21	8.48
	Max Allowed Pts 35% of Total	4.48	3.99	2.17	29.26	24.71	9.52
	Actual Assigned Offsite Points	3.25	3.99	2.17	29.26	24.71	8.48

Project is located in Master Plan: SILVER SPRING CBD











www.mcatlas.org/recreation

Web Tool Design: Step 3

Recreation Facilities Proposed

Tab	e 3.7	Recreation Facilities and Supply	Values						
	20	16 Recreation Facilities		D1 lots	D2 Daldere	DO Tones	Yourge/do to	DS Adicits	D6 Serions
	#	Facility Name	Page			Facility Su	pply Values		
	1	Pedestrian Connection - Trail System	40	0.10 x D1	0.20 x D2	0.15 x D3	0.15 x D4	0.15 x DS	0.10 x D
Active	2	Heart-Smart trail	42	0	9	10	12	12	12
A Pet	3	Fitness trail	43	0	8	12	14	14	7
3	4	Pedestrian Bridge	44	5	10	12	12	12	12
- 10	5	Bikeways	45	0.05 x D1	0.10 x D2	0.15 x D3	0.15 x D4	0.15 x D5	0.10 x 0
Blcycle Facilities	5	Ricycle Repair Room (indoor)	46	0	9	10	52	10	5
× 2	7	B'cycle Parking Garage	47	0	7	14	14	32	5
22	8	Dog Park	48	e	2	3	3	- 6	6
Dog Facilities	9	Dog Run	511	e	α	4	9	- 6	6
£	10	Dog Cleaning Station	52	0	α	2	3	3	3
	11	Indoor Community Space	53	0.10 x D1	0.15 x D2	0.30 x 03	0.30 x D4	0.30 x D5	0.40 x E
	12	Performance Space (Indoor)	54	4	8	8	9	20	9
ž.	13	Indoor Gymnasium or Exercise Room	55	0.10 x D1	0.10 x D2	0.30 x D3	0.30 x D4	0.30 x D5	0.40 x D
ĕ	14	Adaptive Sensory Gymnasium (Indoor)	56	9	9	7	7	- 5	5
É	15	Yoga Room	52	0	2	4	9	9	9
Dommunity Facilities	16	Racquetball/Hanciball/Squash	59	0	1.5	10	20	20	2
0	17	Futsa Court	Sil	0		6	7	5	0
	18	Indoor Fitness Room	61	0.00 x D1	0.10 x D2	0.10 x 03	0.25 x D4	0.20 x Ds	0.15 x t
	19	Open Grass Area Lawn - Small (5,000 sf)	62	3	- 4	9	q	q	3

STEP 3 ENTER NUMBERS OF PROPOSED RECREATION FACILITIES (CALCULATE SUPPLY POINTS)

ADD CUSTOM FACILITY

Quantity	Recreation Facility	Bonus P	Is Pub	Tots Pts	Children Pts	Teens Pts	Young Ad	Adults Pts	Seniors Pts	Tots	Children	Teens	Young Adults	Adults	Seniors	
0	Outdoor Fitness Station			0	0	3	3	2	2	0	0	0	0	0	0	•
0	Inclusive Adaptive Recreati			4	6	6	9	9	9	0	0	0	0	0	0	
0	Terraced Garden Area			2	2	2	2	2	2	0	0	0	0	0	0	
0	Stairs, Steps and Railings			0	3	4	5	5	4	0	0	0	0	0	0	
0	Grilling Area			0	0	2	6	6	5	0	0	0	0	0	0	
0	Performance Setting - Stag			2	5	4	4	6	6	0	0	0	0	0	0	
0	Bicycle Wheel Ramp			0	0	1	2	2	1	0	0	0	0	0	0	
0	Bicycle Support Station			0	0	3	3	3	3	0	0	0	0	0	0	
1	Pedestrian Bridge			5	10	12	12	12	12	5	10	12	12	12	12	
1	Dog Park			0	2	3	5	6	6	0	2	3	5	6	6	
1	Indoor Community Space			.1xD1	.15xD2	.3xD3	.3xD6	.3xD4	.4xD5	2	2.1	1.8	43.8	33.6	20	
1	Adaptive Sensory Gymnasi			9	9	7	7	5	5	9	9	7	7	5	5	_
1	Yoga Room			0	2	4	9	9	9	0	2	4	9	9	9	
1	Indoor Fitness Room			0xD1	.1xD2	.1xD3	.25xD8	.2xD4	.15xD5	0	1.4	0.6	36.5	22.4	7.5	
6	Total Supply Points:									16.00	26.50	28.40	113.30	88.00	59.50	Ţ

SAVE CANCEL













www.mcatlas.org/recreation

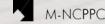
Web Tool Design: Step 4

Export Results to Report

STEP 4 VIEW RESULTS: TOTAL DEMAND POINTS, TOTAL SUPPLY POINTS AND ADEQUACY

Age Group	Demand	Offsite Supply	Onsite Supply	Total Supply	Supply Needed	Adequacy	Adequacy Icon
Tots (0 - 4 yrs)	20.00	5.6	16	21.60	0	Adequate	Ø
Children (5 - 11 yrs)	14.00	4.9	26.5	31.40	0	Adequate	Ø
Teens (12 - 17 yrs)	6.00	2.1	28.4	30.50	0	Adequate	Ø
Young Adults (18 - 34 yr	146.00	44.73	113.3	158.03	0	Adequate	Ø
Adults (35 - 64 yrs)	112.00	31.36	88	119.36	0	Adequate	Ø
Seniors (65+ yrs)	50.00	8.23	59.5	67.73	0	Adequate	Ø

REPORT





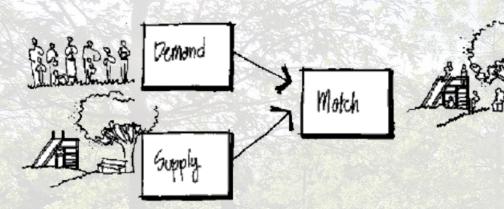








Deriving Recreation Demand Points



Recreation Demand:

Varies by person's age & housing type



















OOLS FOR RECREATION PLA

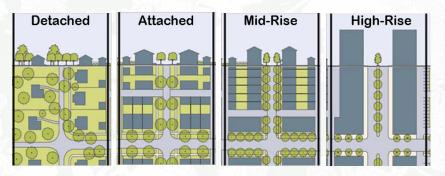
Deriving Recreation Demand Points

Age Profiles by Housing Structure Types

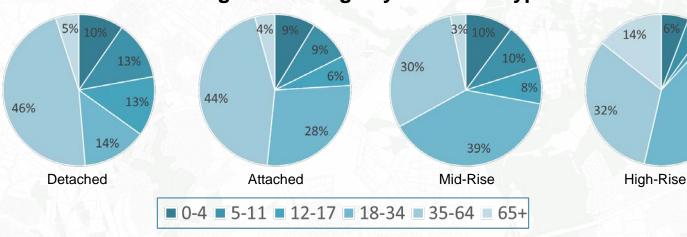
Age Groups

Tots	Children	Teens	Young Adults	Adults	Seniors
0-4	5-11	12-17	18-34	35-64	65+

Housing Recently Built (2005-2014)



Age Percentage by Structure Type



Source: Public Use Microdata Sample, 2014 American Community Survey



4% 2%

42%









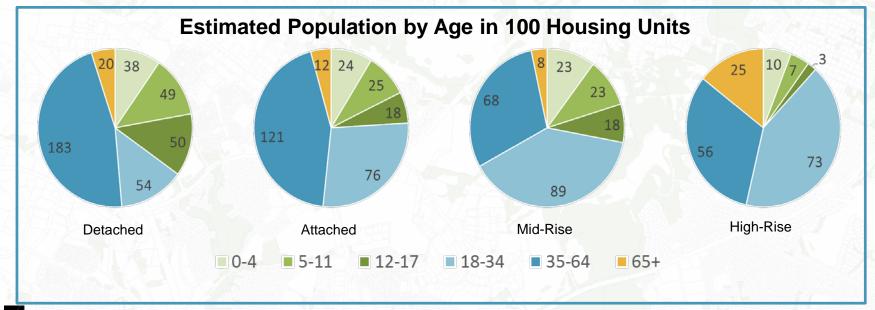


Deriving Recreation Demand Points

Standardized Age by Housing Type

Age distribution in each housing type standardized to 100 units

Population Yield per 100 Housing Units									
	Detached	Attached	Mid-Rise	High-Rise					
Average HH Size	3.95	2.75	2.29	1.75					
Pop/100 units	395	275	229	175					













Deriving Recreation Demand Points

Recreation demand weighted proportionally to amount of recreation that must be provided outside of the household



Lower factor
Activity occurring on person's property, indoors or within a private yard







Higher factor
Demand met outside
private household in
surrounding shared public
recreation space











Deriving Recreation Demand Points

Recreation demand points



Attached Unit: 24 tots X .6= 14 demand points/100 units

Rec	Recreation Demand Points per 100 Dwelling Units										
	0-4	5-11	12-17	18-34	35-64	65+					
Detached	15	35	35	27	73	14					
Attached	14	22	16	53	73	11					
Mid-rise	16	23	18	71	48	8					
High-rise	10	7	3	73	56	25					









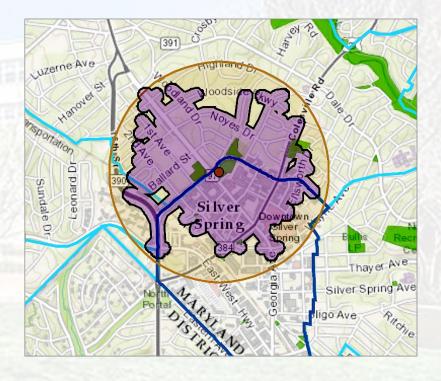


Deriving Recreation Supply Points

Recreation Supply Points

Existing public facilities data:

- Schools, Parks,
- Community Centers
- Privately-owned Public Spaces
- Bikeways and Trails



Generation of the 10-minute walkshed:

 Shows distance to all accessible public facilities within ¼ mile that are eligible for off-site recreation credit











OOLS FOR RECREATION PLA

Deriving Recreation Demand Points

Incentives for Providing Public Facilities

Master Plan Recommended Facilities

Bonus supply credit for fulfilling master plan recommendations for publicly accessible open space or recreation facilities

Table 11.6.1 Approv	ved Facilities Incentive	List	
Facility Name	Master Plan Area	Source Plan	Bonus
Dog Park	Wheaton	2012 PROS	10%
Dog Park	Silver Spring	2012 PROS	10%
Dog Park	White Flint	2012 PROS	10%
Dog Park	Bethesda	2012 PROS	10%











Deriving Recreation Demand Points

Incentives for Providing Public Facilities

Publicly Accessible Private Open Space

 Bonus supply credit for providing public access to privately-owned recreation space

Quantity	Recreation Facility	Bonus P	Is Pub
0	Terraced Garden Area		
0	Stairs, Steps and Railings		
0	Grilling Area		
0	Performance Setting - Stage Outdoor		
0	Bicycle Wheel Ramp		
0	Bicycle Support Station		
1	Pedestrian Connection - Trail System		
1	<u>Bikeways</u>		
1	Natural Area	10%	✓
1	Ornamental Garden or Sculpture Garden		
1	Playground (Age 2-5) [Tot Lot]		
1	Urban Plaza	10%	€
2	Picnic/Seating	10%	€
8	Total Supply Points:		















Deriving Recreation Demand Points

Incentives for Providing Public Facilities

Custom Facilities

Allows developers or owners to propose new facilities types



11.4.1 Questionnaire

	Name of project and recreation facility					
	2. Description of recreation facility					
	3. Is the facility intended for public access?					
Descriptive	A. Yes					
Information	B. No					
	4. Is facility co-located with a stormwater management facility?					
	A. Yes					
	B. No					
	5. What is the size of this facility?					
	A. Less than 250 square feet					
	B. 250 - 499 square feet					
	C. 500 - 1,999 square feet					
	D. 2,000 - 19,999 square feet					
	E. Larger than 20,000 square feet					
	6. Which choice best describes this facility?					
	A. Indoors					
Base Value	B. Natural - Untreated					
Determination	C. Outdoors - Hardscaped (paved)					
Questions	D. Outdoors - Landscaped					
	7. Which choice best describes the lighting for this facility?					
	A. Facility has lighting for users and spectators					
	B. Facility has outdoor accent lighting only					
	C. Facility has no lighting					
	8. Does this facility provide recreational opportunity for tots with:					
	A. Minimal level of supervision					
	B. Moderate level of supervision					
	C. High level of supervision					
	9. Does this facility encourage physical or aerobic exercise?					
	A. Yes					
Base Value	B. No					
Modifier Questions	10. Is this facility suitable for teens?					
Questions	A. Yes					
	B. No					













http://montgomeryplanning.org/planning/functional-planning/recreation-guidelines/

Categories of Recreation

- 16 Categories of Recreation Facilities
 - **80 Facilities Types**
 - 47 New Facilities
 - 33 Traditional Facilities
- Cut Sheets with Specifications





















Typical Rec Categories

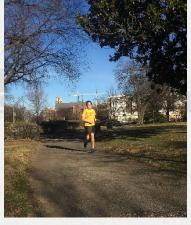


Active Connections











Pedestrian Connection System or Trail System

A pedestrian system within the project site, such as a walking path sidewalk or hiking trail, that provides access to other public facilities, recreational opportunity or activity within natural areas.

Width will vary depending on site conditions. Minimum length requirement: 1/4 mile. Specifications should follow M-NCPPC standards for shared use trails, pedestrian connections. Safety lighting and call boxes should be included where appropriate. Materials may vary: boardwalk, paved, woodchip, natural surface, sensory surface, gravel.

Possible Activities

Walking, hiking, nature study, links between nature areas, or public open spaces, public facilities, connections to natural areas, community gardens.

On private property as part of residential development or on public property as part of the regional trail system. May be located within Category I conservation easements.

Design Criteria

Connections should provide adequate access to public facilities, public open space, other recreation facilities or natural areas, such as woodland, wetland, ponds and creeks. Shared use paths may be included. For natural areas: Resting areas should be provided where appropriate.

Must conform to the Maryland-National Capital Park and Planning Commission's Environmental Guidelines and be designed to maximize protection and function of natural features. For nature trails, pervious surfaces are encouraged. The trail should be designed to minimize erosion.

Components Requirements

Benches, picnic tables, watering stations, interpretive signage, call boxes. Design and construction of pedestrian connections, extensions or trails must conform to the requirements of ADA Amendments Act of 2008.

Trail Extensions

The web tool offers a "pedestrian route extension." This web tool component function may be used in the case of a trail or pedestrian route extension that provides access to an off-site public recreational facility, creating a newly extended walk shed.

Supply Values

	Tots	Children	Teens	Young Adults	Adults	Seniors
Pedestrian Connections	0.10 x D1	0.20 x D2	0.15 x D3	0.15 x D4	0.15 x D5	0.10 x De
10 mar (12)			Parket			

Right: Nature trail. Texas Park and Wildlife Center

Far right: Nature trail, Montgomery County Parks, Montgomery County, MD





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Typical Rec Categories













Bikeways

Definition

A system consisting of bike routes that provides safe bicycle access and recreational opportunities for the community.

Varies per facility type. Refer to the Montgomery Countywide Bikeways

Functional Master Plan for specific dimensions.

Bike riding Possible Activities

> On private property as part of residential development or on public Location

property within the public right-of-way.

Design Criteria Bike routes should provide safe linkages to neighborhood destinations, such

as public transportation and public facilities, and access to the countywide

Bikeways should be provided through natural areas wherever possible.

Resting areas and bike repair stations should be provided.

Must comply with the Montgomery County Bicycle Master Plan.

Components

Benches, bicycle support stations, bicycle repair rooms, bicycle storage

Supply Values

	Tots	Children	Teens	Young Adults	Adults	Seniors	
Bikeways	0.05 x D1	0.10 x D2	0.15 x D3	0.15 x D4	0.15 x D5	0.10 x D6	



Protected bicycle lane, Washington DC

RECREATION GUIDELINES - MARCH 2017 45



M-NCPPC Montgomery County Planning Department



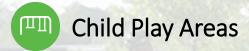








Typical Rec Categories









27. Playground - Play Area

A facility with play features to support a range of activities for children

1,500 square feet minimum; 5 activities.

Possible Activities All ages: climbing, swinging, spinning, sliding, balancing, jumping, hanging, creative play, crawling, hiding, rocking, rolling, bouncing, digging, sand and

Older only (5-12): athletic/exercise equipment, some adventure activities.

All facilities must include climbing and sliding activities.

Smaller facilities may be integrated into a residential development or a

Larger facilities should be accessibly located in a central business district.

50 feet from nearest building, 30 feet from curb.

Setbacks may be reduced in multi-family communities provided that other measures such as landscaping and fencing are used as necessary to achieve

compatibility with adjacent uses.

Provide shade trees and plantings as needed to screen the area. Design Criteria

Provide adjacent seating area and trash receptacles.

Comply with government agency requirements for playground design and

United States Consumer Protection Safety Commission National Program for

Playground Safety: http://playgroundsafety.org/standards/cpsc

Design and construction of playgrounds must conform to the requirements

of ADA Amendments Act of 2008

Supply Values

Adults Childrens' Play Area



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Typical Rec Categories



Open Grass Lawns









21. Open Grass Area Lawn - Urban

An open, level grass area to accommodate relaxation, play or sports

activity within a high density residential or mixed-use community

within an urban area.

Urban: 2,000 square feet minimum.

Possible Activities Small, bounded areas for active recreation; areas designed for seating, rest

or reflection; areas for social gatherings such as picnics.

Location Integrated into residential development or available as public open space.

Design Criteria Setbacks: 30 feet from building, 30 feet from curb.

Lawn area is defined and contained by architecture and landscaping.

Consider compatibility with immediately surrounding uses when placing

Setbacks may be reduced in multifamily housing and townhouse

communities, provided that other measures, such as landscaping and fencing, can be used effectively to screen or to achieve compatibility with

Design of the space should be open and inviting at the sidewalks, easily seen; low-height design elements should convey openness with generous entry paths.

Supply Values

Lawn Areas	Tots	Children	Teens	Young Adults	Adults	Seniors
Urban	2	3	5	7	8	3



Urban lawn area, Yards Park, Washington, DC

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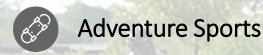








New Rec Categories









60. Skate Spot

Definition An area containing street-style obstacles for skateboarding.

2,500 to 5,000 square feet.

Possible Activities Skateboarding.

> Location Integrated to residential development or part of a local public park.

Design Criteria Consider urban locations where the spot can be safely integrated with the

urban streetscape, or park locations where the spot can be provided with enough area to be utilized safely.

Include events, such as ledges, steps, railings or sculptural elements,

constructed as part of the course.

Resources Skate Park Guide

http://www.skateparkguide.com/design_basics.html

Supply Values

	Tots	Children	Teens	Young Adults	Adults	Seniors
Skate Spot	0	4	9	11	5	1



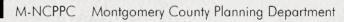
Rob Dyrdek Safe Skate Spot, Cesar Chavez Park,



Sculpture skate spot, Barcelona, Spain

RECREATION GUIDELINES - MARCH 2017 111















New Rec Categories



Dog Facilities











Dog Park

Definition Fenced area where dogs can run off-leash while supervised.

Size 3 acres or more preferred; I acre minimum

Location Accessible location within central business district area; integrated into local

public park; Integrated into residential development.

Design Criteria Fence should be high enough to prevent dogs from jumping over.

Include a double-gated entrance to separate incoming and outgoing, large and small dogs.

Include separate play areas for different sizes of dogs.

Provide a variety of activity types: jumping, running, agility practice for

dogs.

Include benches and seating areas for owners with clear view of play area and clear visibility of the animals. Provide watering stations for dogs and owners. Include benches and seating areas for owners with clear view of play area.

Include shaded areas (gazebos, canvas shade structures or shade trees).

Provide dry and wet stations for dog play.

 ${\small Elements} \qquad {\small Fencing, benches, picnic tables, movable seating, watering stations, shade}$

structures

Perimeter landscape for screening if space is available. Tree areas for shading.

Supply Values

 Tots
 Children
 Teens
 Young Adults
 Adults
 Seniors

 Dog Park
 0
 2
 3
 5
 6
 6



Elsworth Urban Dog Park, M-NCPPC, Silver Spring, MD

Screening/Landscaping

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New Rec Categories



Inclusive Recreation - Child











29. Playground: Inclusive Recreation

Design Criteria

A recreation facility that includes opportunities for sport or recreation for children with disabilities.

Will vary depending on facility location or equipment type.

Possible Activities Climbing, swinging, spinning, sliding, balancing, jumping, hanging, creative

play, crawling, hiding, rocking, rolling, bouncing, digging, sand and water

Location Integrated into residential development; part of a local public park; where

designated by a facilities plan or local area plan.

Include all types of play and insure a mix of physical, sensory, and social activities. Provide areas of shade, sun and color. Provide multiple challenge levels for each type of physical play. Provide activities for balance, sensory integration, learning about safe visual and physical cues. Provide a quiet place for retreat to accommodate over-stimulation.

Ensure modular structures provide alternative activities on each deck level.

Encourage similar play at various ability levels in close proximity.

Cluster activities into pods for better management.

Consider unitary surfacing to improve wheel access and navigation.

Ensure the most popular activities are accessible by all ability levels.

Provide travel routes comfortable enough to accommodate wheelchairs.

Source: Playground Professionals

Supply Values

Adults



Inclusive, accessible carousel, Clemyjontri Park, McLean, VA, Desian by Grace Fielder and Associates, Chartered.

80 RECREATION GUIDELINES · MARCH 2017













New Rec Categories



Inclusive Recreation - Adult









67. Inclusive Recreation Center for Adults (Outdoor)

Definition

An outdoor setting that provides inclusive recreation opportunities for those with disabilities and functions as a center for social interaction, physical fitness and emotional well-being.

3,000 square feet

Possible Activities

Sports, social events, educational activities.

Location

Urban or suburban residential or mixed-use environments.

Design Criteria

Accommodates activities for young adults, adults and seniors who require adapted recreational exercise and fitness programs.

The center should provide for a minimum of 10 physical activity types (or activity stations). The activity program, form and function should accommodate a full range of disabilities, physical, cognitive and sensory limitations, i.e., mobility restrictions, wheelchair access, hypo-and hyper sensory conditions, etc.

Design focus should create a centralized gathering space with group seating and shade and water fountains. Siting should consider prevailing winds, solar orientation and slope to provide optimum access for all groups.

A track for running, assisted racing, wheelchair racing, etc. should be provided with seating and shade stations. If possible, the center should adjoin an accessible trail with a natural area to provide a variety of recreational experiences.

Supply Values

	Tots	Children	Teens	Young Adults	Adults	Seniors
Inclusive Recreation Center	2	4	12	25	25	25



Prototype for Norwell Universal Norwell Outdoor Fitness Company, Copenhagen, Denmark

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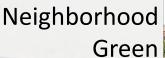
New Rec Categories



Formal Urban Spaces

Pocket Park





Through-Block Connection







Urban Plaza













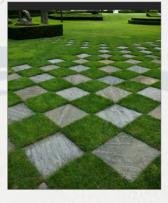
New Rec Categories



Landscape Elements for Toddlers









71. Landscape Elements for Toddlers and Children (Recreation Element)

Definition

A uniquely defined landscaped, paved or organic space created within a public open space that encourages exploration, interaction and play by toddlers and children.

Design Criteria

The space defined should provide a sense of containment with clearly articulated boundaries. Its features—landscaping or paving—should promote curiosity and exploration by young children or toddlers, through visual stimulation, sensory variety, texture or three-dimensional qualities. Materials should be of high quality and used to fulfill an identifiable design scheme.

The area must allow visibility of the child at all times, while providing a visually interesting and attractive elements on its own that is well integrated into the overall public open space..

Minimum 1,500 square feet in area.

Supply Values

	Tots	Children	Teens	Young Adults	Adults	Seniors
Interactive Art	4	3	3	2	4	4



Clockwise from top left: Jardin de Plantes, Nantes, France





Sleeping chick, Flower pot heads, Sleeping chick and visitors

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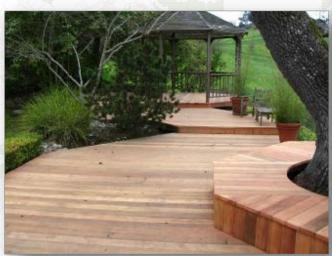


http://mcatlas.org/recreation/Default.aspx?ScenarioId=7359

Case Study: Bethesda Mews

Recreation and Sustainability

- American College of Cardiology Site
- R-60/MPDU/Optional Method
- 34 Dwelling Units (Affordable Units)
- 9.87 Acres
- Bethesda/Chevy Chase Master Plan
- Cluster Development Marketing

















http://mcatlas.org/recreation/Default.aspx?ScenarioId=7359

Case Study: Bethesda Mews

Recreation and Sustainability

Stormwater Facilities, ESD and Recreation

- Efficient use of land
- Explorative play
- Increase in housing units

Natural Areas

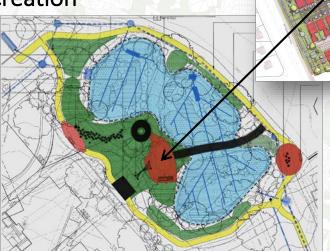
- Dedication of forested areas
- Category I forestation easement
- Recreation supply credit























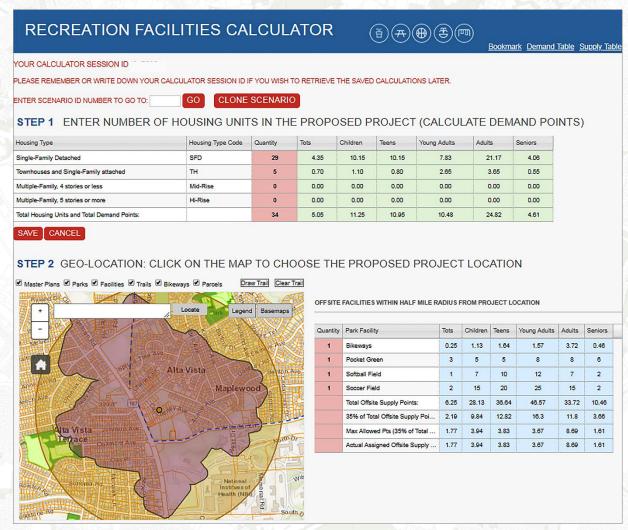
http://mcatlas.org/recreation/Default.aspx?ScenarioId=7359

Case Study: Bethesda Mews

The Web Tool Scenario

Step 1: Demand

Step 2: Geo-location

















http://mcatlas.org/recreation/Default.aspx?ScenarioId=7359

Case Study: Bethesda Mews

The Web Tool Scenario

Step 3: Supply

Step 4: Adequacy

ATER A ENTED NUMBERO OF PROPOSED REODERTION FACILITIES (ON OUR ATE OURDLY BOINTS)
STEP 3 ENTER NUMBERS OF PROPOSED RECREATION FACILITIES (CALCULATE SUPPLY POINTS)
DIEL O LIVIER NOWDERO OF FROM OOLD REGISTATION FAGILITIES (OALOULATE SOFTET FORWARD)

ADD CUSTOM FACILITY

Quantity	Recreation Facility	Bonus P	Is Pub	Tots Pts	Children Pts	Teens Pts	Young Ad	Adults Pts	Seniors Pts	Tots	Children	Teens	Young Adults	Adults
0	Terraced Garden Area			2	2	2	2	2	2	0	0	0	0	0
0	Stairs, Steps and Railings			0	3	4	5	5	4	0	0	0	0	0
0	Grilling Area			0	0	2	6	6	5	0	0	0	0	0
0	Performance Setting - Stage Outdoor			2	5	4	4	6	6	0	0	0	0	0
0	Bicycle Wheel Ramp			0	0	1	2	2	1	0	0	0	0	0
0	Bicycle Support Station			0	0	3	3	3	3	0	0	0	0	0
1	Pedestrian Connection - Trail System			.1xD1	.2xD2	.15xD3	.15xD8	.15xD4	.1xD5	0.51	2.25	1.64	1.57	3.72
1	<u>Bikeways</u>			.05xD1	.1xD2	.15xD3	.15xD6	.15xD4	.1xD5	0.25	1.13	1.64	1.57	3.72
1	Natural Area	10%	€	.05xD1	.05xD2	.1xD3	.1xD8	.1xD4	.05xD5	0.28	0.62	1.2	1.15	2.73
1	Ornamental Garden or Sculpture Garden			2	3	3	7	8	5	2	3	3	7	8
1	Playground (Age 2-5) [Tot Lot]			9	2	2	3	3	3	9	2	2	3	3
1	Urban Plaza	10%	☑	4	6	6	18	15	6	4.4	6.6	6.6	19.8	16.5
2	Picnic/Seating	10%	€	1	1	1.5	3	3	3	2.2	2.2	3.3	6.6	6.6
8	Total Supply Points:							1 1 1 1 1 1 1 1		18.64	17.80	19.38	40.69	44.27

SAVE CANCEL

STEP 4 VIEW RESULTS: TOTAL DEMAND POINTS, TOTAL SUPPLY POINTS AND ADEQUACY

Age Group	Demand	Offsite Supply	Onsite Supply	Total Supply	Supply Needed	Adequacy	Adequacy Icon	
Tots (0 - 4 yrs)	5.05	1.77	18.64	20.41	0	Adequate		
Children (5 - 11 yrs)	11.25	3.94	17.8	21.74	0	Adequate	②	
Teens (12 - 17 yrs)	10.95	3.83	19.38	23.21	0	Adequate	Ø	
Young Adults (18 - 34 yr	10.48	3.67	40.69	44.36	0	Adequate	②	
Adults (35 - 64 yrs)	24.82	8.69	44.27	52.96	0	Adequate	Ø	
Seniors (65+ yrs)	4.61	1.61	22.37	23.98	0	Adequate	O	

















Recreation and Sustainability

Stream Restoration and Natural Area Rehabilitation

- Recreation credit for stream restoration
- Off-site or on-site

Community Gardening

Supply credit for gardens

Stormwater Management

Recreation and Infrastructure























Recreation Guidelines Manual

http://montgomeryplanning.org/wp-content/uploads/2017/05/Rec-Guidelines_FINAL.pdf

The Web Tool

www.mcatlas.org/recreation

Questions?















END













www.mcatlas.org/recreation













http://montgomeryplanning.org/wp-content/uploads/2017/05/Rec-Guidelines_FINAL.pdf













www.mcatlas.org/recreation













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http://montgomeryplanning.org/wp-content/uploads/2017/05/Rec-Guidelines_FINAL.pdf





http://mcatlas.org/recreation/Default.aspx?ScenarioId=7417

Case Study: ZOM Bethesda

Urban High-Rise Living

Infill Development

- Efficient use of land: 1.84 acre tract
- 235 dwelling units
- Higher density zoning
- Bethesda Downtown Sector Plan

Indoor Amenities

- Social interaction areas
- **Fitness**
- Communication

Urban Amenities







http://mcatlas.org/recreation/Default.aspx?ScenarioId=7417

Case Study: ZOM Bethesda

Urban High-Rise Living

Neighborhood Amenities

- 4 Urban Parks
- **Capitol Crescent Trail**
- **Elementary School & Fields**
- Library









http://mcatlas.org/recreation/Default.aspx?ScenarioId=7417

Case Study: ZOM Bethesda

Urban High-Rise Living

Urban Residential Amenities - Outdoor















http://mcatlas.org/recreation/Default.aspx?ScenarioId=7417

Case Study: ZOM Bethesda

Urban High-Rise Living

Urban Residential Amenities - Indoor































The Big Picture: Integrating Recreation and Planning Sectors

- Urban Design
- Infill Development
- Transportation
- Environmental
- Historic Preservation





















