



National Mall and Memorial Parks Tour Bus Study



NATIONAL PARK SERVICE

Participants during the study

- American Bus Association
- District of Columbia Department of Transportation
- Destination D.C.
- Downtown D.C. Business Improvement District
- George Mason University
- Honor Flight Network
- Metropolitan Washington Council of Governments
- National Capital Planning Commission
- The Guild of Professional Tour Guides of Washington, D.C.
- Trust for the National Mall

*Research Funded through Paul S. Sarbanes Transit in Parks Program Grant

Objectives of Report

- Develop recommendations for both long and short term improvements in overall tour bus operations within National Mall and Memorial Parks (NAMA)
- Systematically document and confirm current tour bus parking and congestion issues
- Series of studies looking at, Operational Efficiency, Congestion, Visitor Mobility, Access, Safety, Education, Recreation, Health, Natural/Cultural and Historic resource protection

Study	Details
Off-Bus Data Collection and Photographic Documentation at Loading and Unloading Zones, Part 1	Data collected and analyzed by GMU that is specific to congestion, operational efficiency, mobility, access, safety, and resource protection at loading and unloading zones. 626 buses documented
Off-bus Data Collection at Gateway Points	Data collected by COG for DDOT specific to tour bus volume and carrying capacity; analyzed by COG and GMU. 5,256 buses documented
	Off-Bus Data Collection and Photographic Documentation at Loading and Unloading Zones, Part 1 Off-bus Data Collection at

Phase	Stud y	Details
10	Off-Bus Data Collection and Photographic Documentation at Loading and Unloading Zones, Part 2	Data collected and analyzed by GMU that is specific to congestion, operational efficiency, mobility, access, safety, and resource protection at loading and unloading zones. 831 buses documented
IV	Off-bus Data Collection at Parking Areas	Data collected and analyzed by GMU that is specific to turnover, stacking, user conflict, and carrying capacity at parking areas adjacent to major destinations as well as parking in peripheral locations. 1,328 buses documented.

Phase	Stud y	Details
V	On-Bus Data Collection and Documentation of Daily Bus Operations	Specific to congestion, operational efficiency, mobility, access, safety, education, recreation, health benefits and resource protection during the point-to-point experience. Six full-day and 2 half-day tours documented.
VI	Operator Self-Reports	Specific to logs, itineraries, education, recreation, health, vehicle-miles-traveled, methods used to reduce pollution, safety, regulation and suggestions for improving operational efficiency and energy conservation. Six tour companies documented.

Phase	Stud y	Details
VII	Client Self-Reports	Data collected and analyzed by GMU that is specific to itineraries, group needs, intermodal capabilities of diverse tour group markets and ways to maximize the on-bus and pedestrian experience. Four client groups documented.
		Note – over 8,000 buses documented during phases I – IV

Site Specific Recommendations Overview



- Study Area, approx. 684 acres
- 21-25 million visitors annually
- 1200+ buses per day
- Study conducted March 2012 thru June 2014
- 26 site specific recommendations, numbered on map 1-26
- 8 Additional Global Recommendations, letters A-H on map (shown slide 39)

Constitution Avenue, eastbound Between 23rd and Henry Bacon Dr.



Current Function

3 spaces for tour bus loading/unloading during non-rush hour periods

Summary of Documented Issues

Underutilized; illegal use as parking area; minimal/ inconsistent enforcement

Recommendations

Convert to 3-hour tour bus parking during peak season, non-rush hour times; install 3hour parking meters; develop and install standard regulatory signs; standardize and coordinate enforcement.

Lincoln Memorial, North on Henry Bacon Dr.

Site 2 of 26



Current Function

6 spaces for tour bus loading/unloading on southwest bound side

Summary of Documented Issues

Underutilized; illegal use as parking area; idling beyond legal limits; use by private vehicles; minimal/inconsistent enforcement

Recommendations

Open northbound Lincoln Circle restricted lanes as a pilot bus route, add loading/unloading spaces on northeast bound side of Henry Bacon Dr.; develop and install standard regulatory signs; standardize and coordinate enforcement.

Lincoln Memorial, South on Daniel French Dr.



Current Function

6 spaces for tour bus loading/unloading

Summary of Documented Issues

Over-utilized; congested; illegal double parking; illegal loading/unloading in nondesignated areas; pulling into traffic in dangerous ways; blocking pedestrian traffic; stopping in zone beyond time needed to load/unload; illegal loading/ unloading in nondesignated areas; jaywalking; minimal/ inconsistent enforcement

Recommendations

Open northbound Lincoln Circle restricted lanes as a pilot bus route; develop and install standard regulatory signs; standardize and coordinate enforcement.

Constitution Avenue, east-bound between Henry Bacon Drive and 21st



Current Function

1 space for tour bus loading/unloading during non-rush hour periods

Summary of Documented Issues

Underutilized; illegal use as parking area; minimal/ inconsistent enforcement

Recommendations

Convert to designated Circulator bus stop; install 3-hour parking meters for buses or private vehicles; develop and install standard regulatory signs; standardize and coordinate enforcement.

FDR/MLK Memorial, West Basin Drive



coordinate enforcement.

Ohio Drive, SW, Independence Avenue to Inlet Bridge



difficult to impossible for tour buses to

endanger vehicles and visitors; common

park; attempts to parallel park often

area for cruising

vehicle parking, with parking for personal vehicles north of West Basin Drive to Independence Avenue and parking for tour buses located south of West Basin Drive to Inlet Bridge; assess feasibility of angled parking for easier tour bus access; assess feasibility of one-way access during peak season, with buses parking on east side of Ohio Drive; install 3-hour parking meters; develop and install standard regulatory signs; standardize and coordinate enforcement.

Constitution Avenue, east-bound between 19th and 18th



World War II Memorial, Homefront Dr.



Thomas Jefferson Memorial, East Basin Dr

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Current Function	Summary of Documented Issues	Recommendations
7 spaces for tour bus loading/unloading	Over-utilized during peak season; dangerous thoroughfare along East Basin Dr.; pulling dangerously into traffic; stopping in zone beyond time needed to load/ unload; illegal loading/ unloading in non- designated areas; idling beyond legal limits; minimal/ inconsistent enforcement	Assess the feasibility of using a portion of NPS National Capital Regional Office parking lot as a parking area (for after drop-off) as a weekend seasonal pilot; install parking meters; develop and install standard regulatory signs; standardize and coordinate enforcement.

1500 Block, Independence Ave., NW



minimal/inconsistent enforcement

U.S. Holocaust Memorial Museum, 100 Raoul Wallenberg Place



15th Street, NW between Pennsylvania Avenue and Constitution Avenue near the Ellipse



14th Street, west side of Ronald Reagan Building northbound pull-off



Ford's Theatre, 600 Block 10th Street



Ford's Theatre, 500 block 10th Street



peak season; stopping on the wrong side of the road; illegal double parking; pulling into traffic in a dangerous way; stopping in zone beyond time needed to load/unload; illegal loading/ unloading in non-designated areas; idling beyond legal limits; minimal/ inconsistent enforcement

only and those going to parking garages; use signage and pavement changes to indicate gateway to an area that can be named Ford's Theatre District; consider use of crossing guard or traffic control personnel during peak season; develop and install standard regulatory signs; standardize and coordinate enforcement.

Ford's Theatre, 1000 Block F Street



1 space for tour bus loading/unloading

Underutilized; illegal use as parking area; minimal/ inconsistent enforcement Convert to metered parking; develop and install standard regulatory signs; standardize and coordinate enforcement.

Ohio Drive, south of East Potomac Park Golf Course entry

Site 17 of 26			
	Current Function	Summary of Documented Issues	Recommendations
0 curbside sp	aces	Removal of curbside spaces for safety and access reasons; consistent requests from tour bus drivers and owners for reinstatement of tour bus parking	Reinstate and reallocate pull-off areas for tour bus parking located south of U.S. Park Police District One Station and East Potomac Park Golf Course during peak season as a pilot; ensure that tour bus presence will not block law

spaces; common area for cruising

ilot; ensure ock law enforcement access; install parking meters; develop and install standard regulatory signs; standardize and coordinate enforcement.

Hains Point, East Potomac Park



National Museum of American History, Madison Dr. between 12th and 14th



Current Function

3 spaces for tour bus loading/unloading

Summary of Documented
lssues

Converted to loading/unloading zone during study period; backup due to limited spaces; blocking pedestrian traffic; blocking facility entrance

Recommendations

Allocate supplemental seasonal loading/unloading and parking spaces on north side of Madison Avenue; add seasonal loading/ unloading and parking spaces on south side of Constitution Avenue; develop and install standard regulatory signs; standardize and coordinate enforcement.

National Museum of Natural History, Madison Dr. at 9th St.



Summary of Documented Issues

Congested; stopping in zone beyond

time needed to load/unload; illegal

designated areas; use by private

vehicles; minimal/inconsistent

loading/unloading in non-

enforcement

Recommendations

8 spaces for tour bus loading/unloading

Current Function

Allocate supplemental seasonal loading/unloading and parking spaces on north side of Madison Avenue; add seasonal loading/ unloading and parking spaces on south side of Constitution Avenue; develop and install standard regulatory signs; standardize and coordinate enforcement.

Constitution Avenue, Westbound south side of National Archives



National Air and Space Museum, Jefferson Drive at 7th St.



Summary of Documented lssues

Recommendations

9 spaces for tour bus loading/unloading

Over-utilized; congested; blocking pedestrian traffic; blocking facility entrance; stopping in zone beyond time needed to load/unload; illegal loading/unloading in nondesignated areas; minimal/inconsistent enforcement

Allocate supplemental loading/ unloading and parking spaces directly south of the museum on Independence Avenue; develop and install standard regulatory signs; standardize and coordinate enforcement.

National Museum of the American Indian, Jefferson Dr. between 3rd and 4th St.



900-1200 Block, Maine Avenue, SW



700–900 Block, Maine Avenue, SW



Buzzard Point, 1880 2nd Street, SW



GLOBAL RECOMMENDATIONS

- Other relevant challenges identified on and around NAMA
- Identified as repeated challenges throughout multiple phases of study
- Partnerships are necessary for implementation

- 1. Information Delivery
- 2. Consistent Regulations, Signage and Enforcement
- 3. Parking
- 4. Crowdsourcing
- 5. Cultural Needs
- 6. Specialized Needs School Groups
- 7. Health Benefits
- 8. Protection of Sensitive Natural, Cultural, and Historic Resources

GLOBAL RECOMMENDATIONS-Information Delivery

Challenge

- Inconsistent information for tour bus drivers prior to arrival
- Current information lacking in both breath and depth

Recommendation

- Collaborative manual designed by key stakeholders (NPS, DDOT, ABA, Destination D.C., Others)
- Current documentation language and presentation should be revised
- Web content revisions
- Multiple language translations
GLOBAL RECOMMENDATIONS-Regs, Signage, Enforcement

Challenge

- No regular enforcement
- Inconsistent policies with loading/unloading and parking
- Inconsistent requirements, standards, regulations, fees or signage

Recommendation

• Provide standard documentation as outlined above on all policies, jurisdictions, and enforcement

GLOBAL RECOMMENDATIONS-Parking

Challenge

- Lack of tour bus parking causes congestion throughout NAMA
- Lack of available spaces within high use areas such as major attractions and at peak volume times
- Inefficient management and use of currently available spaces

- Short term, expand existing capacity
- Long term, additional parking required
- The following maps highlight specific recommendations per parking location

GLOBAL RECOMMENDATIONS-Parking Overview Map



I-66 East, highway near the John F. Kennedy Center for the Performing Arts



Lincoln Circle

Site B



FDR Memorial / Martin Luther King, Jr. Memorial, West Basin Drive

Site C



FDR Memorial / Martin Luther King, Jr. Memorial, West Basin Drive

Site D



NPS National Capital Regional Office parking lot off of Ohio Drive SW



Constitution Avenue eastbound at 14th Street

Site F

Additional Considerations Nary Nen Constitution Ave M ADISON DI The Matterra Mu 4 5 4 5 4 5 5 10 ndenendence Ave S and the second Recommendations This area currently is a multi-use area for Metro buses, Federal Center SVI private/commuter buses, vendors and public parking. It should be explored further as an authorized/signed tour RINCHER bus parking location. Interactive map 1.800 Feet

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Constitution Avenue eastbound at 12th Street

Site G

Additional Considerations Nary Nen Feler. 10 m MADISON DI The Matterra Mu 4 5 4 5 4 5 5 10 ndenendence Ave S and the second Recommendations This area currently is a multi-use area for Metro buses, Federal Center SVI private/commuter buses, vendors and public parking. It should be explored further as an authorized/signed tour RINCHER bus parking location. Interactive map 1.800 Feet ce of the Chief Technology Office

Independence Ave SW at 4th Street

Site H

Additional Considerations Federal Nary Nen Feller. MADISON DR Mattorra Mu 4.2.4.8.4.8.3.35 PRECEISON D Independence Ave SW the stand L'Enfan Recommendations These areas are currently is a multi-use area for Metro Federal Center SW 0.51 buses, private/commuter buses, vendors and public Erfan 1.07.0 parking. It should be explored further as an RINCHER authorized/signed tour bus parking location. Interactive map 1.800 Feet

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GLOBAL RECOMMENDATIONS-CROWDSOURCING

Challenge

- Lack of real-time information and mobile reporting system for tour bus operators
- Lack of effective/efficient information delivery system

- Utilize web based technologies for information gathering and sharing
- Aligning user incentives to increase operational efficiency of tour operators

GLOBAL RECOMMENDATIONS-CULTURAL NEEDS

Challenge

- Foreign visitors tight schedules and short duration
- Cultural and language barriers

- Multi-language audio orientation program
- Multi-language interpretive brochures

GLOBAL RECOMMENDATIONS-SPECIALIZED NEEDS

Challenge

- Structural Constraints (Loading/Unloading in non-ADA compliant locations)
- Weather related constraints for specialized needs

- Enhance driver adherence to vehicle rules and regs. when loading/unloading
- Enforcement agencies adjust polices to accommodate specialized needs
- Specialized needs to be addressed in information manual (as outlined above)

GLOBAL RECOMMENDATIONS-SCHOOL GROUPS

Challenge

- Large numbers (>60%) pre-teens or teens
- School groups have larger groups and longer itineraries (12+ hrs or more)

- Expanded restroom and waterfilling stations to accommodate large school groups
- Expanded lighting around NAMA to accompany longer itineraries
- Expanded on-site recreational opportunities for school groups

GLOBAL RECOMMENDATIONS-HEALTH BENIFITS

Challenge

- Participants can walk up to 9 miles on full tour days
- Overheating or exhaustion leads to poor visitor experiences

- Reduce client risk when loading/unloading
- Reduce air pollutants by minimizing idle times
- Better amenities such as more water-filling stations, healthier food choices, additional shaded areas with seating, and improved pathways for encouraged walking
- Efficient trip planning

GLOBAL RECOMMENDATIONS-RESOURCES PROTECTION

Challenge

- Buses obstruct viewsheds or scenic views that enhance the visitor experience
- Stacked buses may idle longer than legally permitted

- Select appropriate loading/unloading areas that won't interfere with viewsheds
- Multi-space metered parking
- Additional parking to ease concentrated traffic congestion