TABLE OF CONTENTS

1 Executive Summary 1-1
1.1 Overview 1-1
1.2 Previous Survey Efforts 1-2
1.3 2013 Key Findings 1-3
1.3.1 System-wide Findings 1-4
1.3.2 Corridor-level Findings 1-4
1.4 Report Organization 1-6
2 System-wide Market Trends 2-1
2.1 Washington State Ferries Market Summary 2-1
2.2 Washington State Ferries Market Area 2-5
2.3 Ferry Travel Characteristics 2-10
2.3.1 Trip Purpose and Frequency 2-10
2.3.2 Direction and Time of Day 2-10
2.3.3 Round-Trip Patterns 2-12
2.4 Access and Egress Travel Characteristics 2-15
2.4.1 Access, Egress, and Boarding Modes 2-15
2.4.2 Opportunities for Increasing Non-Vehicle Board Access and Egress 2-23
2.5 Demographic Characteristics 2-31
2.5.1 Income Findings 2-31
2.5.2 Traveler Age 2-33
2.5.3 Traveler Race/Ethnicity 2-35
3 Corridor Travel Markets 3-1
3.1 General Characteristics of the Corridor Travel Markets 3-2
3.1.1 Trip Frequency and Trip Type Differences among Corridors 3-2
3.1.2 Aging Demographic, Trip Frequency and Purpose 3-3
3.2 San Juan Islands Corridor Findings 3-5
3.2.1 Aging Demographic, Trip Frequency and Purpose 3-5
3.2.2 Access Patterns and Parking Trends 3-5
3.2.3 Travel Patterns 3-5
3.3 North Sound Corridor Findings (Whidbey Island) 3-6
3.3.1 Aging Demographic, Trip Frequency and Purpose 3-6
3.3.2 Access Patterns and Parking Trends 3-6
3.3.3 Travel Patterns 3-7
3.4 Central Sound Corridor Findings 3-7
3.4.1 Aging Demographic, Trip Frequency and Purpose 3-7
3.4.2 Access Patterns and Parking Trends 3-8
3.4.3 Travel Patterns 3-9

3.5 South Sound Corridor Findings 3-9
3.5.1 Aging Demographic, Trip Frequency and Purpose 3-9
3.5.2 Access Patterns and Parking Trends 3-10
3.5.3 Travel Patterns 3-10

4 San Juan Islands Corridor 4-1

4.1 Description 4-1
4.1.1 Frequency of Travel 4-2
4.1.2 Round-Trip Patterns 4-4
4.1.3 Access, Egress, and Boarding Modes 4-5
4.1.4 Other Travel Characteristics 4-13
4.1.5 Demographic Characteristics 4-14

4.2 Anacortes–San Juan Islands 4-15
4.2.1 Route Description 4-15
4.2.2 Trips by Purpose 4-15
4.2.3 Frequency of Travel 4-16
4.2.4 Round-Trip Patterns 4-17
4.2.5 Access, Egress, and Boarding Modes 4-19
4.2.6 Wait Time 4-24
4.2.7 Parking 4-24
4.2.8 Weekday Travel Patterns—Eastbound 4-25
4.2.9 Weekday Travel Patterns—Westbound 4-31
4.2.10 Saturday Travel Patterns—Eastbound 4-37
4.2.11 Saturday Travel Patterns—Westbound 4-43

4.3 Anacortes–Sidney, British Columbia 4-49
4.3.1 Route Description 4-49
4.3.2 Trips by Purpose 4-49
4.3.3 Frequency of Travel 4-50
4.3.4 Round-Trip Patterns 4-51
4.3.5 Access, Egress, and Boarding Modes 4-52
4.3.6 Wait Time 4-58
4.3.7 Parking 4-58
4.3.8 Weekday Travel Patterns—Eastbound 4-59
4.3.9 Weekday Travel Patterns—Westbound 4-63
4.3.10 Saturday Travel Patterns—Eastbound 4-67
4.3.11 Saturday Travel Patterns—Westbound 4-71

5 North Sound (Whidbey Island) Corridor 5-1

5.1 Description 5-1
5.1.1 Frequency of Travel 5-2
5.1.2 Round-Trip Patterns 5-4
5.1.3 Access, Egress, and Boarding Modes 5-6
5.1.4 Other Travel Characteristics 5-13
5.1.5 Demographic Characteristics 5-15

5.2 Mukilteo–Clinton 5-16
5.2.1 Route Description 5-16
5.2.2 Trips by Purpose 5-16
5.2.3 Frequency of Travel 5-17
5.2.4 Round-Trip Patterns 5-18
5.2.5 Access, Egress, and Boarding Modes 5-20
5.2.6 Wait Time 5-26
5.2.7 Parking 5-27
5.2.8 Weekday PM Peak-Period Travel Patterns—Eastbound 5-27
5.2.9 Weekday PM Peak-Period Travel Patterns—Westbound 5-31
5.2.10 Saturday Travel Patterns—Eastbound 5-35
5.2.11 Saturday Travel Patterns—Westbound 5-39
5.3 Port Townsend–Coupeville 5-43
5.3.1 Route Description 5-43
5.3.2 Trips by Purpose 5-43
5.3.3 Frequency of Travel 5-44
5.3.4 Round-Trip Patterns 5-45
5.3.5 Access, Egress, and Boarding Modes 5-47
5.3.6 Wait Time 5-53
5.3.7 Parking 5-54
5.3.8 Weekday PM Peak-Period Travel Patterns—Eastbound 5-55
5.3.9 Weekday PM Peak-Period Travel Patterns—Westbound 5-59
5.3.10 Saturday Travel Patterns—Eastbound 5-63
5.3.11 Saturday Travel Patterns—Westbound 5-67

6 Central Sound Corridor 6-1

6.1 Description 6-1
6.1.1 Frequency of Travel 6-2
6.1.2 Round-Trip Patterns 6-4
6.1.3 Access, Egress, and Boarding Modes 6-6
6.1.4 Other Travel Characteristics 6-14
6.1.5 Demographic Characteristics 6-15
6.2 Seattle–Bainbridge Island 6-17
6.2.1 Route Description 6-17
6.2.2 Trips by Purpose 6-17
6.2.3 Frequency of Travel 6-18
6.2.4 Round-Trip Patterns 6-19
6.2.5 Access, Egress, and Boarding Modes 6-21
6.2.6 Wait Time 6-30
6.2.7 Parking 6-31
6.2.8 Weekday PM Peak Period Travel Patterns – Eastbound 6-32
6.2.9 Weekday PM Peak-Period Travel Patterns—Westbound 6-35
6.2.10 Saturday Travel Patterns—Eastbound 6-41
6.2.11 Saturday Travel Patterns—Westbound 6-45

6.3 Seattle–Bremerton 6-49
6.3.1 Route Description 6-49
6.3.2 Trips by Purpose 6-49
6.3.3 Frequency of Travel 6-50
6.3.4 Round-Trip Patterns 6-51
6.3.5 Access, Egress, and Boarding Modes 6-53
6.3.6 Wait Time 6-62
6.3.7 Parking 6-63
6.3.8 Weekday PM Peak-Period Travel Patterns—Eastbound 6-64
6.3.9 Weekday PM Peak-Period Travel Patterns—Westbound 6-67
6.3.10 Saturday Travel Patterns—Eastbound 6-73
6.3.11 Saturday Travel Patterns—Westbound 6-77
6.4 Edmonds–Kingston 6-81
6.4.1 Route Description 6-81
6.4.2 Trips by Purpose 6-81
6.4.3 Frequency of Travel 6-82
6.4.4 Round-Trip Patterns 6-83
6.4.5 Access, Egress, and Boarding Modes 6-85
6.4.6 Wait Time 6-91
6.4.7 Parking 6-92
6.4.8 Weekday PM Peak-Period Travel Patterns—Eastbound 6-93
6.4.9 Weekday PM Peak-Period Travel Patterns—Westbound 6-97
6.4.10 Saturday Travel Patterns—Eastbound 6-101
6.4.11 Saturday Travel Patterns—Westbound 6-105

7 South Sound Corridor 7-1
7.1 Description 7-1
7.1.1 Frequency of Travel 7-2
7.1.2 Round-Trip Patterns 7-4
7.1.3 Access, Egress, and Boarding Modes 7-5
7.1.4 Other Travel Characteristics 7-12
7.1.5 Demographic Characteristics 7-14
7.2 Fauntleroy–Vashon 7-15
7.2.1 Route Description 7-15
7.2.2 Trips by Purpose 7-15
7.2.3 Frequency of Travel 7-16
7.2.4 Round-Trip Patterns 7-17
7.2.5 Access, Egress, and Boarding Modes 7-19
7.2.6 Wait Time 7-25
7.2.7 Parking 7-26
7.2.8 Weekday PM Peak-Period Travel Patterns—Eastbound 7-27
7.2.9 Weekday PM Peak-Period Travel Patterns—Westbound 7-31
7.2.10 Saturday Travel Patterns—Eastbound 7-35
7.2.11 Saturday Travel Patterns—Westbound 7-39

7.3 Fauntleroy–Southworth 7-43
7.3.1 Route Description 7-43
7.3.2 Trips by Purpose 7-43
7.3.3 Frequency of Travel 7-44
7.3.4 Round-Trip Patterns 7-45
7.3.5 Access, Egress, and Boarding Modes 7-47
7.3.6 Wait Time 7-53
7.3.7 Parking 7-54
7.3.8 Weekday PM Peak-Period Travel Patterns—Eastbound 7-55
7.3.9 Weekday PM Peak-Period Travel Patterns—Westbound 7-59
7.3.10 Saturday Travel Patterns—Eastbound 7-63
7.3.11 Saturday Travel Patterns—Westbound 7-67
7.4 Southworth–Vashon 7-71
7.4.1 Route Description 7-71
7.4.2 Trips by Purpose 7-71
7.4.3 Frequency of Travel 7-72
7.4.4 Round-Trip Patterns 7-73
7.4.5 Access, Egress, and Boarding Modes 7-75
7.4.6 Wait Time 7-81
7.4.7 Parking 7-82
7.4.8 Weekday PM Peak-Period Travel Patterns—Eastbound 7-83
7.4.9 Weekday PM Peak-Period Travel Patterns—Westbound 7-87
7.4.10 Saturday Travel Patterns—Eastbound 7-91
7.4.11 Saturday Travel Patterns—Westbound 7-95
7.5 Point Defiance–Tahlequah 7-99
7.5.1 Route Description 7-99
7.5.2 Trips by Purpose 7-99
7.5.3 Frequency of Travel 7-100
7.5.4 Round-Trip Patterns 7-101
7.5.5 Access, Egress, and Boarding Modes 7-103
7.5.6 Wait Time 7-109
7.5.7 Parking 7-110
7.5.8 Weekday PM Peak-Period Travel Patterns—Southbound 7-111
7.5.9 Weekday PM Peak-Period Travel Patterns—Northbound 7-115
7.5.10 Saturday Travel Patterns—Southbound 7-119
7.5.11 Saturday Travel Patterns—Northbound 7-123

8 Survey Methods and Results 8-1
8.1 Survey Design, Sampling, and Administration 8-1
8.1.1 Survey Design 8-1
8.1.2 Sampling Plan 8-2
8.1.3 Survey Administration 8-3
8.2 Survey Responses and Data Cleaning 8-3
8.2.1 Usable Survey Records 8-4

8.2.2 Response and Usable Rates 8-4
8.3 Survey Expansion 8-4
8.3.1 Survey Expansion Methodology 8-5
8.3.2 Trip Table Expansion Method 8-6
8.4 Survey Precision 8-7
8.4.1 Technical Discussion 8-7
8.4.2 Route Level Precision Estimates 8-8
8.4.3 Sample Share of Survey Population 8-9
8.5 Survey Data Files and Geocoding 8-9
8.5.1 Geocoding Process and GIS Application 8-9
8.5.2 WSF TAZ System and District Schemes 8-9
8.5.3 Using Geocoded Trip Origin and Destination Information 8-12
8.6 Summary Survey Results 8-12
8.7 Survey Conclusions and Lessons Learned 8-12
8.7.1 Survey Design 8-13
8.7.2 Survey Field Collection 8-13
8.7.3 Alternative Approaches for the next Origin/Destination Survey (Year 2020) 8-14

Figures

Figure 1-1. Corridor travel markets for the Washington State Ferries system 1-1
Figure 2-1. System-wide distribution of ferry rider home locations by county, weekday and Saturday survey periods (2013) 2-6
Figure 2-2. System-wide rider home locations, weekday survey period 2-7
Figure 2-3. System-wide rider home locations, Saturday survey period 2-8
Figure 2-4. System-wide round-trip patterns by day, weekday and Saturday survey periods (2006 and 2013) 2-12
Figure 2-5. System-wide round-trip patterns by route, weekday and Saturday survey periods (2006 and 2013) 2-13
Figure 2-6. System-wide travel party size, weekday and Saturday survey periods (2013) 2-14
Figure 2-7. System-wide westbound trips by access and egress modes, weekday and Saturday survey periods (2013) 2-15
Figure 2-8. System-wide eastbound trips by access and egress modes, weekday and Saturday survey periods (2013) 2-16
Figure 2-9. System-wide reasons for taking a vehicle on-board the ferry, weekday and Saturday survey periods (2013) 2-21
Figure 2-10. System-wide non-motorized boardings that parked a vehicle at terminal, weekday and Saturday survey periods (2006 and 2013) 2-22

Figure 2-11. System-wide distribution of transit, walk, and bike access by age compared to all survey period respondents, weekday and Saturday survey periods (2013) 2-24
Figure 2-12. System-wide distribution of transit, walk, and bike access by income compared to all survey period respondents, weekday and Saturday survey periods (2013) 2-25
Figure 2-13. System-wide distribution of transit, walk, and bike access by trip purpose compared to all survey period respondents, weekday and Saturday survey periods (2013) 2-26
Figure 2-14. System-wide origin and destination locations accessed by transit, weekday survey period (2013) 2-29
Figure 2-15. System-wide traveler income ranges, all survey periods (2013) 2-31
Figure 2-16. System-wide grouped income distribution, not adjusted for inflation (2006 and 2013) 2-31
Figure 2-17. System-wide traveler income comparison of survey respondents to 12-county region 2-32
Figure 2-18. System-wide traveler income distribution by boarding mode, all survey periods (2013) 2-32
Figure 2-19. System-wide traveler age, all survey periods (2013) 2-33
Figure 2-20. System-wide traveler age, weekday and Saturday survey periods (2013) 2-34
Figure 2-21. System-wide traveler age comparison to 12-county and statewide population (2013) 2-34
Figure 2-22. System-wide traveler race/ethnicity, all survey periods (2013) 2-35
Figure 2-23. System-wide race/ethnicity share by route, all survey periods (2013) 2-37
Figure 2-24. System-wide race/ethnicity comparison to 12-county population 2-37
Figure 3-1. Corridor travel markets for the WSF system 3-1
Figure 3-2. Average number of trips per week by corridor 3-2
Figure 3-3. Weekday trips by purpose and corridor 3-3
Figure 3-4. Distribution of age by corridor, weekday 3-4
Figure 3-5. Share of retirees by corridor (2006 and 2013) 3-5
Figure 3-6. Population by age group for Vashon Island, Bainbridge Island, and South/Central Whidbey Islands, 2000 and 2010 US Census 3-9
Figure 4-1. San Juan Islands Corridor routes 4-4
Figure 4-2. San Juan Islands Corridor trips by purpose, weekday and Saturday survey periods (2006 and 2013) 4-6
Figure 4-3. San Juan Islands Corridor round-trip patterns by day, weekday and Saturday survey periods (2006 and 2013) 4-7
Figure 4-4. San Juan Islands Corridor round-trip patterns by route, weekday and Saturday survey periods (2006 and 2013) 4-8

Figure 4-5. San Juan Islands Corridor westbound trips by access and egress modes, weekday and Saturday survey periods (2013) 4-9
Figure 4-6. San Juan Islands Corridor eastbound trips by access and egress modes, weekday and Saturday survey periods (2013) 4-10
Figure 4-7. San Juan Islands Corridor reasons for taking a vehicle, weekday and Saturday survey periods (2013) 4-14
Figure 4-8. San Juan Islands Corridor non-motorized boardings that parked a vehicle at terminal, weekday and Saturday survey periods (2006 and 2013) 4-15
Figure 4-9. San Juan Islands Corridor party size, weekday and Saturday survey periods (2013) 4-16
Figure 4-10. San Juan Islands Corridor traveler age and income, weekday and Saturday survey periods (2013) 4-17
Figure 4-11. Anacortes–San Juan Islands round-trip patterns by day, weekday and Saturday survey periods (2006 and 2013) 4-20
Figure 4-12. Anacortes–San Juan Islands round-trip patterns by route, weekday and Saturday survey periods (2006 and 2013) 4-21
Figure 4-13. Anacortes–San Juan Islands westbound trips by access and egress modes, weekday and Saturday survey periods (2013) 4-22
Figure 4-14. Anacortes–San Juan Islands eastbound trips by access and egress modes, weekday and Saturday survey periods (2013) 4-23
Figure 4-15. Anacortes–San Juan Islands trips by wait time, weekday and Saturday survey periods (2006 and 2013) 4-27
Figure 4-16. Anacortes–San Juan Islands non-motorized boardings that parked a vehicle at terminal, weekday and Saturday survey periods (2006 and 2013) 4-28
Figure 4-17. Anacortes–San Juan Islands eastbound origin and destination districts, weekday all-day survey period 4-29
Figure 4-18. Anacortes–San Juan Islands eastbound origin and destination locations by boarding mode, weekday all-day survey period 4-31
Figure 4-19. San Juan Inter-Island eastbound origin and destination districts, weekday all-day survey period 4-32
Figure 4-20. San Juan Inter-Island eastbound origin and destination locations by boarding mode, weekday all-day survey period 4-33
Figure 4-21. Anacortes–San Juan Islands westbound origin and destination districts, weekday all-day survey period 4-35
Figure 4-22. Anacortes–San Juan Islands westbound origin and destination locations by boarding mode, weekday all-day survey period 4-37
Figure 4-23. San Juan Inter-Island westbound origin and destination districts, weekday all-day survey period 4-38
Figure 4-24. San Juan Inter-Island westbound origin and destination locations by boarding mode, weekday all-day survey period 4-39

Figure 4-25. Anacortes–San Juan Islands eastbound origin and destination districts, Saturday survey period 4-41
Figure 4-26. Anacortes–San Juan Islands eastbound origin and destination locations by boarding mode, Saturday survey period 4-43
Figure 4-27. San Juan Inter-Island eastbound origin and destination districts, Saturday survey period 4-44
Figure 4-28. San Juan Inter-Island eastbound origin and destination locations by boarding mode, Saturday survey period 4-45
Figure 4-29. Anacortes–San Juan Islands westbound origin and destination districts, Saturday survey period 4-47
Figure 4-30. Anacortes–San Juan Islands westbound origins and destination locations by boarding mode, Saturday survey period 4-49
Figure 4-31. San Juan Inter-Island westbound origin and destination districts, Saturday survey period 4-50
Figure 4-32. San Juan Inter-Island westbound origin and destination locations by boarding mode, Saturday survey period 4-51
Figure 4-33. Anacortes–Sidney, British Columbia, round-trip patterns by day, weekday and Saturday survey periods (2006 and 2013) 4-54
Figure 4-34. Anacortes–Sidney, British Columbia, round-trip patterns by route, weekday and Saturday survey periods (2006 and 2013) 4-55
Figure 4-35. Anacortes–Sidney, British Columbia, westbound trips by access and egress modes, weekday and Saturday survey periods (2013) 4-56
Figure 4-36. Anacortes–Sidney, British Columbia, eastbound trips by access and egress modes, weekday and Saturday survey periods (2013) 4-57
Figure 4-37. Anacortes–Sidney, British Columbia, trips by wait time, weekday and Saturday survey periods (2006 and 2013) 4-61
Figure 4-38. Anacortes–Sidney, British Columbia, non-motorized boardings that parked a vehicle at terminal, weekday and Saturday survey periods (2006 and 2013) 4-62
Figure 4-39. Anacortes–Sidney, British Columbia, eastbound origin and destination districts, weekday all-day survey period 4-63
Figure 4-40. Anacortes–Sidney, British Columbia, eastbound origin and destination locations by boarding mode, weekday all-day survey period 4-65
Figure 4-41. Anacortes–Sidney, British Columbia, westbound origin and destination districts, weekday all-day survey period 4-67
Figure 4-42. Anacortes–Sidney, British Columbia, westbound origin and destination locations by boarding mode, weekday all-day survey period 4-69
Figure 4-43. Anacortes–Sidney, British Columbia, eastbound origin and destination districts, Saturday survey period 4-71

Figure 4-44. Anacortes–Sidney, British Columbia, eastbound origin and destination locations by boarding mode, Saturday survey period 4-73
Figure 4-45. Anacortes–Sidney, British Columbia, westbound origin and destination districts, Saturday survey period 4-75
Figure 4-46. Anacortes–Sidney, British Columbia, westbound origins and destination locations by boarding mode, Saturday survey period 4-77
Figure 5-1. North Sound Corridor routes 5-4
Figure 5-2. North Sound Corridor trips by purpose, weekday 8-hour and Saturday survey periods (2006 and 2013) 5-6
Figure 5-3. North Sound Corridor round-trip patterns by day, weekday 8-hour and Saturday survey periods (2006 and 2013) 5-7
Figure 5-4. North Sound Corridor round-trip patterns by route, weekday 8-hour and Saturday survey periods (2006 and 2013) 5-8
Figure 5-5. North Sound Corridor westbound trips by access and egress modes, weekday 8-hour and Saturday survey periods (2013) 5-9
Figure 5-6. North Sound Corridor eastbound trips by access and egress modes, weekday 8-hour and Saturday survey periods (2013) 5-10
Figure 5-7. North Sound Corridor reasons for taking a vehicle, weekday 8-hour and Saturday survey periods (2013) 5-14
Figure 5-8. North Sound Corridor non-motorized boardings that parked a vehicle at terminal, weekday 8-hour and Saturday survey periods (2006 and 2013) 5-15
Figure 5-9. North Sound Corridor party size, weekday 8-hour and Saturday survey periods (2013) 5-17
Figure 5-10. North Sound Corridor traveler age and income, weekday 8-hour and Saturday survey periods (2013) 5-18
Figure 5-11. Mukilteo–Clinton round-trip patterns by day, weekday 8-hour and Saturday survey periods (2006 and 2013) 5-21
Figure 5-12. Mukilteo–Clinton round-trip patterns by route, weekday 8-hour and Saturday survey periods (2006 and 2013) 5-22
Figure 5-13. Mukilteo–Clinton westbound trips by access and egress modes, weekday 8-hour and Saturday survey periods (2013) 5-23
Figure 5-14. Mukilteo–Clinton eastbound trips by access and egress modes, weekday 8-hour and Saturday survey periods (2013) 5-24
Figure 5-15. Mukilteo–Clinton trips by wait time, weekday 8-hour and Saturday survey periods (2006 and 2013) 5-29
Figure 5-16. Mukilteo–Clinton non-motorized boardings that parked a vehicle at terminal, weekday 8-hour and Saturday survey periods (2006 and 2013) 5-30
Figure 5-17. Mukilteo–Clinton eastbound origin and destination districts, weekday PM peak period 5-31

Figure 5-18. Mukilteo–Clinton eastbound origin and destination locations by boarding mode, weekday 8 hour survey period 5-33
Figure 5-19. Mukilteo–Clinton westbound origin and destination districts, weekday PM peak period 5-35
Figure 5-20. Mukilteo–Clinton change in westbound travel patterns from 2006, weekday PM peak period 5-36
Figure 5-21. Mukilteo–Clinton westbound origin and destination locations by boarding mode, weekday 8-hour survey period 5-38
Figure 5-22. Mukilteo–Clinton eastbound origin and destination districts, Saturday survey period 5-39
Figure 5-23. Mukilteo–Clinton eastbound origin and destination locations by boarding mode, Saturday survey period 5-41
Figure 5-24. Mukilteo–Clinton westbound origin and destination districts, Saturday survey period 5-43
Figure 5-25. Mukilteo–Clinton westbound origin and destination locations by boarding mode, Saturday survey period 5-45
Figure 5-26. Port Townsend–Coupeville round-trip patterns by day, weekday 8-hour and Saturday survey periods (2006 and 2013) 5-48
Figure 5-27. Port Townsend–Coupeville round-trip patterns by route, weekday 8-hour and Saturday survey periods (2006 and 2013) 5-49
Figure 5-28. Port Townsend–Coupeville westbound trips by access and egress modes, weekday 8-hour and Saturday survey periods (2013) 5-50
Figure 5-29. Port Townsend–Coupeville eastbound trips by access and egress modes, weekday 8-hour and Saturday survey periods (2013) 5-51
Figure 5-30. Port Townsend–Coupeville trips by wait time, weekday 8-hour and Saturday survey periods (2006 and 2013) 5-56
Figure 5-31. Port Townsend–Coupeville non-motorized boardings that parked a vehicle at terminal, weekday 8-hour and Saturday survey periods (2006 and 2013) 5-57
Figure 5-32. Port Townsend–Coupeville eastbound origin and destination districts, weekday PM peak period 5-59
Figure 5-33. Port Townsend–Coupeville eastbound origin and destination locations by boarding mode, weekday 8-hour survey period 5-61
Figure 5-34. Port Townsend–Coupeville westbound origin and destination districts, weekday PM peak period 5-63
Figure 5-35. Port Townsend–Coupeville change in westbound travel patterns from 2006, weekday PM peak period 5-64
Figure 5-36. Port Townsend–Coupeville westbound origin and destination locations by boarding mode, weekday 8-hour survey period 5-66

Figure 5-37. Port Townsend–Coupeville eastbound origin and destination districts, Saturday survey period 5-67
Figure 5-38. Port Townsend–Coupeville eastbound origin and destination locations by boarding mode, Saturday survey period 5-69
Figure 5-39. Port Townsend–Coupeville westbound origin and destination districts, Saturday survey period 5-71
Figure 5-40. Port Townsend–Coupeville westbound origin and destination locations by boarding mode, Saturday survey period 5-73
Figure 6-1. Central Sound Corridor routes 6-5
Figure 6-2. Central Sound Corridor trips by purpose, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-7
Figure 6-3. Central Sound Corridor round-trip patterns by day, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-8
Figure 6-4. Central Sound Corridor round-trip patterns by route, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-9
Figure 6-5. Central Sound Corridor westbound trips by access and egress modes, weekday 8-hour and Saturday survey periods (2013) 6-10
Figure 6-6. Central Sound Corridor eastbound trips by access and egress modes, weekday 8-hour and Saturday survey periods (2013) 6-11
Figure 6-7. Central Sound Corridor reasons for taking a vehicle, weekday 8-hour and Saturday survey periods (2013) 6-16
Figure 6-8. Central Sound Corridor non-motorized boardings that parked a vehicle at terminal, weekday 8 hour and Saturday survey periods (2006 and 2013) 6-17
Figure 6-9. Central Sound Corridor party size, weekday 8-hour and Saturday survey periods (2013) 6-19
Figure 6-10. Central Sound Corridor traveler age and income, weekday 8-hour and Saturday survey periods (2013) 6-20
Figure 6-11. Seattle–Bainbridge Island round-trip patterns by day, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-23
Figure 6-12. Seattle–Bainbridge Island round-trip patterns by route, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-24
Figure 6-13. Seattle–Bainbridge Island westbound trips by access and egress modes, weekday 8-hour and Saturday survey periods (2013) 6-25
Figure 6-14. Seattle–Bainbridge Island eastbound trips by access and egress modes, weekday 8-hour and Saturday survey periods (2013) 6-26
Figure 6-15. Seattle–Bainbridge Island distribution of bike access or egress by age compared to all survey period respondents, weekday and Saturday survey periods (2013) 6-31

Figure 6-16. Seattle–Bainbridge Island distribution of bike access or egress by income compared to all survey period respondents, weekday and Saturday survey periods (2013) 6-32
Figure 6-17. Seattle–Bainbridge Island distribution of bike access or egress by trip purpose compared to all survey period respondents, weekday and Saturday survey periods (2013) 6-33
Figure 6-18. Seattle–Bainbridge Island trips by wait time, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-34
Figure 6-19. Seattle–Bainbridge Island non-motorized boardings that parked a vehicle at terminal, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-35
Figure 6-20. Seattle–Bainbridge Island eastbound origin and destination districts, weekday PM peak period 6-36
Figure 6-21. Seattle–Bainbridge Island eastbound origin and destination locations by boarding mode, weekday 8 hour survey period 6-38
Figure 6-22. Seattle–Bainbridge Island westbound origin and destination districts, weekday PM peak period 6-40
Figure 6-23. Seattle–Bainbridge Island change in westbound travel patterns from 2006, weekday PM peak period 6-41
Figure 6-24. Seattle–Bainbridge Island westbound origin and destination locations by boarding mode, weekday 8 hour survey period 6-44
Figure 6-25. Seattle–Bainbridge Island eastbound origin and destination Districts, Saturday survey period 6-46
Figure 6-26. Seattle–Bainbridge Island eastbound origin and destination locations by boarding mode, Saturday survey period 6-48
Figure 6-27. Seattle–Bainbridge Island westbound origin and destination districts, Saturday survey period 6-50
Figure 6-28. Seattle–Bainbridge Island westbound origin and destination locations by boarding mode, Saturday survey period 6-52
Figure 6-29. Seattle–Bremerton round-trip patterns by day, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-55
Figure 6-30. Seattle–Bremerton round-trip patterns by route, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-56
Figure 6-31. Seattle–Bremerton westbound trips by access and egress modes, weekday 8-hour and Saturday survey periods (2013) 6-57
Figure 6-32. Seattle–Bremerton eastbound trips by access and egress modes, weekday 8-hour and Saturday survey periods (2013) 6-58
Figure 6-33. Seattle–Bremerton distribution of bike access by age compared to all survey period respondents, weekday and Saturday survey periods (2013) 6-63
Figure 6-34. Seattle–Bremerton distribution of bike access by income compared to all survey period respondents, weekday and Saturday survey periods (2013) 6-64

Figure 6-35. Seattle–Bremerton distribution of bike access by trip purpose compared to all survey period respondents, weekday and Saturday survey periods (2013) 6-65
Figure 6-36. Seattle–Bremerton trips by wait time, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-66
Figure 6-37. Seattle–Bremerton non-motorized boardings that parked a vehicle at terminal, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-67
Figure 6-38. Seattle–Bremerton eastbound origin and destination districts, weekday PM Peak Period 6-68
Figure 6-39. Seattle–Bremerton eastbound origin and destination locations by boarding mode, weekday 8 hour survey period 6-70
Figure 6-40. Seattle–Bremerton westbound origin and destination districts, weekday PM peak period 6-72
Figure 6-41. Seattle–Bremerton change in westbound travel patterns from 2006, weekday PM peak period 6-73
Figure 6-42. Seattle–Bremerton westbound origin and destination locations by boarding mode, weekday 8 hour survey period 6-76
Figure 6-43. Seattle–Bremerton eastbound origin and destination districts, Saturday survey period 6-78
Figure 6-44. Seattle–Bremerton eastbound origin and destination locations by boarding mode, Saturday survey period 6-80
Figure 6-45. Seattle–Bremerton westbound origin and destination districts, Saturday survey period 6-82
Figure 6-46. Seattle–Bremerton westbound origin and destination locations by boarding mode, Saturday survey period 6-84
Figure 6-47. Edmonds–Kingston round-trip patterns by day, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-87
Figure 6-48. Edmonds–Kingston round-trip patterns by route, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-88
Figure 6-49. Edmonds–Kingston westbound trips by access and egress modes, weekday 8-hour and Saturday survey periods (2013) 6-89
Figure 6-50. Edmonds–Kingston eastbound trips by access and egress modes, weekday 8-hour and Saturday survey periods (2013) 6-90
Figure 6-51. Edmonds–Kingston trips by wait time, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-95
Figure 6-52. Edmonds–Kingston non-motorized boardings that parked a vehicle at terminal, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-96
Figure 6-53. Edmonds–Kingston eastbound origin and destination districts, weekday PM peak period 6-98

Figure 6-54. Edmonds–Kingston eastbound origin and destination locations by boarding mode, weekday 8 hour survey period 6-100
Figure 6-55. Edmonds–Kingston westbound origin and destination districts, weekday PM peak period 6-102
Figure 6-56. Edmonds–Kingston change in westbound travel patterns from 2006, weekday PM peak period 6-103
Figure 6-57. Edmonds–Kingston westbound origin and destination locations by boarding mode, weekday 8 hour survey period 6-105
Figure 6-58. Edmonds–Kingston eastbound origin and destination districts, Saturday survey period..... 6-106
Figure 6-59. Edmonds–Kingston eastbound origin and destination locations by boarding mode, Saturday survey period 6-108
Figure 6-60. Edmonds–Kingston westbound origin and destination districts, Saturday survey period..... 6-110
Figure 6-61. Edmonds–Kingston westbound origin and destination locations by boarding mode, Saturday survey period 6-112
Figure 7-1. South Sound Corridor Routes..... 7-5
Figure 7-2. South Sound Corridor trip purpose, weekday 8 hour and Saturday survey periods (2006 and 2013)..... 7-7
Figure 7-3. South Sound Corridor round-trip patterns by day, weekday 8 hour and Saturday survey periods (2006 and 2013)..... 7-8
Figure 7-4. South Sound Corridor round-trip patterns by route, weekday 8 hour and Saturday survey periods (2006 and 2013)..... 7-9
Figure 7-5. South Sound Corridor westbound trips by access and egress modes, weekday 8 hour and Saturday survey periods (2013)..... 7-10
Figure 7-6. South Sound Corridor eastbound trips by access and egress modes, weekday 8 hour and Saturday survey periods (2013)..... 7-11
Figure 7-7. South Sound Corridor reasons for taking a vehicle, weekday 8 hour and Saturday survey periods (2013) 7-15
Figure 7-8. South Sound Corridor non-motorized boardings that parked a vehicle at terminal, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-16
Figure 7-9. South Sound Corridor party size, weekday 8 hour and Saturday survey periods (2013) 7-17
Figure 7-10. South Sound Corridor traveler age and income, weekday 8 hour and Saturday survey periods (2013) 7-18
Figure 7-11. Fauntleroy–Vashon round-trip patterns by day, weekday 8 hour and Saturday survey periods (2006 and 2013)..... 7-21
Figure 7-12. Fauntleroy–Vashon round-trip patterns by route, weekday 8 hour and Saturday survey periods (2006 and 2013)..... 7-22

Figure 7-13. Fauntleroy–Vashon Westbound trips by access and egress modes, weekday 8 hour and Saturday survey periods (2013) 7-23
Figure 7-14. Fauntleroy–Vashon eastbound trips by access and egress modes, weekday 8 hour and Saturday survey periods (2013) 7-24
Figure 7-15. Fauntleroy–Vashon trips by wait time, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-29
Figure 7-16. Fauntleroy–Vashon non-motorized boardings that parked a vehicle at terminal, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-30
Figure 7-17. Fauntleroy–Vashon eastbound origin and destination districts, weekday PM peak period 7-32
Figure 7-18. Fauntleroy–Vashon eastbound origin and destination locations by boarding mode, weekday 8 hour survey period 7-34
Figure 7-19. Fauntleroy–Vashon westbound origin and destination districts, weekday PM peak period 7-36
Figure 7-20. Fauntleroy–Vashon change in westbound travel patterns from 2006, weekday PM peak period 7-37
Figure 7-21. Fauntleroy–Vashon westbound origin and destination locations by boarding mode, weekday 8 hour survey period 7-39
Figure 7-22. Fauntleroy–Vashon eastbound origin and destination districts, Saturday survey period 7-40
Figure 7-23. Fauntleroy–Vashon eastbound origin and destination locations by boarding mode, Saturday survey period 7-42
Figure 7-24. Fauntleroy–Vashon westbound origin and destination districts, Saturday survey period 7-44
Figure 7-25. Fauntleroy–Vashon westbound origin and destination locations by boarding mode, Saturday survey period 7-46
Figure 7-26. Fauntleroy–Southworth round-trip patterns by day, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-49
Figure 7-27. Fauntleroy–Southworth round-trip patterns by route, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-50
Figure 7-28. Fauntleroy–Southworth westbound trips by access and egress modes, weekday 8 hour and Saturday survey periods (2013) 7-51
Figure 7-29. Fauntleroy–Southworth eastbound trips by access and egress modes, weekday 8 hour and Saturday survey periods (2013) 7-52
Figure 7-30. Fauntleroy–Southworth trips by wait time, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-57
Figure 7-31. Fauntleroy–Southworth non-motorized boardings that parked a vehicle at terminal, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-58
Figure 7-32. Fauntleroy–Southworth eastbound origin and destination districts, weekday PM peak period 7-60

Figure 7-33. Fauntleroy–Southworth eastbound origin and destination locations by boarding mode, Weekday 8 hour Survey Period 7-62
Figure 7-34. Fauntleroy–Southworth westbound origin and destination districts, weekday PM peak period 7-64
Figure 7-35. Fauntleroy–Southworth change in westbound travel patterns from 2006, weekday PM peak period 7-65
Figure 7-36. Fauntleroy–Southworth westbound origin and destination locations by boarding mode, Weekday 8 hour Survey Period 7-67
Figure 7-37. Fauntleroy–Southworth eastbound origin and destination districts, Saturday survey period 7-68
Figure 7-38. Fauntleroy–Southworth eastbound origin and destination locations by boarding mode, Saturday survey period 7-70
Figure 7-39. Fauntleroy–Southworth westbound origin and destination districts, Saturday survey period 7-72
Figure 7-40. Fauntleroy–Southworth westbound origin and destination locations by boarding mode, Saturday survey period 7-74
Figure 7-41. Southworth–Vashon round-trip patterns by day, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-77
Figure 7-42. Southworth–Vashon round-trip patterns by route, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-78
Figure 7-43. Southworth–Vashon westbound trips by access and egress modes, weekday 8 hour and Saturday survey periods (2013) 7-79
Figure 7-44. Southworth–Vashon eastbound trips by access and egress modes, weekday 8 hour and Saturday survey periods (2013) 7-80
Figure 7-45. Southworth–Vashon trips by wait time, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-85
Figure 7-46. Southworth–Vashon non-motorized boardings that parked a vehicle at terminal, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-86
Figure 7-47. Southworth–Vashon eastbound origin and destination districts, weekday PM peak period 7-88
Figure 7-48. Southworth–Vashon eastbound origin and destination locations by boarding mode, Weekday 8 hour Survey Period 7-90
Figure 7-49. Southworth–Vashon westbound origin and destination districts, weekday PM peak period 7-92
Figure 7-50. Southworth–Vashon change in westbound travel patterns from 2006, weekday PM peak period 7-93
Figure 7-51. Southworth–Vashon westbound origin and destination locations by boarding mode, Weekday 8 hour Survey Period 7-95
Figure 7-52. Southworth–Vashon eastbound origin and destination districts, Saturday survey period 7-96

Figure 7-53. Southworth–Vashon eastbound origin and destination locations by boarding mode, Saturday survey period 7-98
Figure 7-54. Southworth–Vashon westbound origin and destination districts, Saturday survey period 7-100
Figure 7-55. Southworth–Vashon westbound origin and destination locations by boarding mode, Saturday survey period 7-102
Figure 7-56. Point Defiance–Tahlequah round-trip patterns by day, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-105
Figure 7-57. Point Defiance–Tahlequah round-trip patterns by route, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-106
Figure 7-58. Point Defiance–Tahlequah northbound trips by access and egress modes, weekday 8 hour and Saturday survey periods (2013) 7-107
Figure 7-59. Point Defiance–Tahlequah southbound trips by access and egress modes, weekday 8 hour and Saturday survey periods (2013) 7-108
Figure 7-60. Point Defiance–Tahlequah trips by wait time, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-113
Figure 7-61. Point Defiance–Tahlequah non-motorized boardings that parked a vehicle at terminal, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-114
Figure 7-62. Point Defiance–Tahlequah southbound origin and destination districts, weekday PM peak period 7-116
Figure 7-63. Point Defiance–Tahlequah southbound origin and destination locations by boarding mode, Weekday 8 hour Survey Period 7-118
Figure 7-64. Point Defiance–Tahlequah northbound origin and destination districts, weekday PM peak period 7-120
Figure 7-65. Point Defiance–Tahlequah change in northbound travel patterns from 2006, weekday PM peak period 7-121
Figure 7-66. Point Defiance–Tahlequah northbound origin and destination locations by boarding mode, weekday 8 hour survey period 7-123
Figure 7-67. Point Defiance–Tahlequah southbound origin and destination districts, Saturday survey period 7-124
Figure 7-68. Point Defiance–Tahlequah southbound origin and destination locations by boarding mode, Saturday survey period 7-126
Figure 7-69. Point Defiance–Tahlequah northbound origin and destination districts, Saturday survey period 7-128
Figure 7-70. Point Defiance–Tahlequah northbound origin and destination locations by boarding mode, Saturday survey period 7-130
Figure 8-1. WSF TAZ system coverage 8-12

Tables

Table 1-1. Comparison of survey response and usable surveys to previous years by survey month ridership 1-2
Table 2-1. General comparisons between 2006 and 2013 2-2
Table 2-2. General findings summary 2-3
Table 2-3. System-wide survey period ferry rider home locations as a share of county population (2013) 2-6
Table 2-4. Share of survey respondents residing out of state, weekday and Saturday survey periods (2013) 2-9
Table 2-5. System-wide one-way trips by purpose and frequency, weekday and Saturday survey periods (2006 and 2013) 2-11
Table 2-6. System-wide trips by direction and time of day, weekday and Saturday survey periods (2013) 2-11
Table 2-7. System-wide access and boarding methods, weekday and Saturday survey periods (2006 and 2013) 2-18
Table 2-8. System-wide egress and boarding methods, weekday and Saturday survey periods (2006 and 2013) 2-19
Table 2-9. System-wide access mode to ferry-boarding method—egress mode from ferry, weekday PM peak period (2013) 2-20
Table 2-10. System-wide access mode to ferry-boarding method—egress mode from ferry, weekday non-PM peak period (2013) 2-20
Table 2-11. System-wide access mode to ferry-boarding method—egress mode from ferry, Saturday survey period (2013) 2-21
Table 2-12. Transit routes interfaced with WSF ferry terminals 2-27
Table 2-13. Reasons for taking a vehicle on-board the ferry (transit-related responses) as a percentage of all responses, weekday and Saturday survey periods (2013) 2-28
Table 2-14. Percentage of home locations, origins, and destinations of vehicle boarders within two miles of ferry terminals, weekday survey periods (2013) 2-30
Table 2-15. System-wide race/ethnicity count and share by route, all survey periods (2013) 2-36
Table 2-16. System-wide traveler primary language, all survey periods (2013) 2-38
Table 4-1. San Juan Islands Corridor one-way trips by purpose and frequency, weekday and Saturday survey periods (2006 and 2013) 4-4
Table 4-2. San Juan Islands Corridor access mode and boarding method, weekday and Saturday survey periods (2006 and 2013) 4-10
Table 4-3. San Juan Islands Corridor egress mode and boarding method, weekday and Saturday survey periods (2006 and 2013) 4-11

Table 4-4. San Juan Islands Corridor access mode to ferry—boarding method — egress mode from ferry, weekday all-day survey period (2013).....4-12
Table 4-5. San Juan Islands Corridor trips by access mode to ferry—boarding method—egress mode from ferry, Saturday survey period (2013).....4-12
Table 4-6. San Juan Islands Corridor trips preferred sailing, weekday and Saturday survey periods (2006 and 2013).....4-15
Table 4-7. Anacortes–San Juan Islands trips by purpose and direction, weekday and Saturday survey periods (2006 and 2013).....4-17
Table 4-8. Anacortes–San Juan Islands one-way trips by purpose and frequency, weekday and Saturday survey periods (2006 and 2013).....4-18
Table 4-9. Anacortes–San Juan Islands access mode and boarding methods, weekday and Saturday survey periods (2006 and 2013).....4-23
Table 4-10. Anacortes–San Juan Islands egress mode and boarding methods, weekday and Saturday survey periods (2006 and 2013).....4-24
Table 4-11. Anacortes–San Juan Islands trips by access mode to ferry—boarding method—egress mode from ferry, weekday all-day survey period (2013).....4-25
Table 4-12. Anacortes–San Juan Islands trips by access mode to ferry—boarding method—egress mode from ferry, Saturday survey period (2013).....4-25
Table 4-13. Anacortes–San Juan Islands eastbound total boardings by origin and destination district, weekday all-day survey period.....4-29
Table 4-14. San Juan Inter-Island eastbound total boardings by origin and destination district, weekday all-day survey period.....4-31
Table 4-15. Anacortes–San Juan Islands westbound total boardings by origin and destination district, weekday all-day survey period.....4-35
Table 4-16. San Juan Inter-Island westbound total boardings by origin and destination district, weekday all-day survey period.....4-37
Table 4-17. Anacortes–San Juan Islands eastbound total boardings by origin and destination district, Saturday survey period.....4-41
Table 4-18. San Juan Inter-Island eastbound total boardings by origin and destination district, Saturday survey period.....4-43
Table 4-19. Anacortes–San Juan Islands westbound total boardings by origin and destination district, Saturday survey period.....4-47
Table 4-20. San Juan Inter-Island westbound total boardings by origin and destination district, Saturday survey period.....4-49
Table 4-21. Anacortes–Sidney, British Columbia, trips by purpose and direction, weekday and Saturday survey periods (2006 and 2013).....4-51
Table 4-22. Anacortes–Sidney, British Columbia, one-way trips by purpose and frequency, weekday and Saturday survey periods (2006 and 2013).....4-52
Table 4-23. Anacortes–Sidney, British Columbia, access mode and boarding methods, weekday and Saturday survey periods (2006 and 2013).....4-57

Table 4-24. Anacortes–Sidney, British Columbia, egress mode and boarding methods, weekday and Saturday survey periods (2006 and 2013) 4-58
Table 4-25. Anacortes–Sidney, British Columbia, trips by access mode to ferry—boarding method—egress mode from ferry, weekday all-day survey period (2013)..... 4-59
Table 4-26. Anacortes–Sidney, British Columbia, trips by access mode to ferry—boarding method—egress mode from ferry, Saturday survey period (2013)..... 4-59
Table 4-27. Anacortes–Sidney, British Columbia, eastbound total boardings by origin and destination district, weekday all-day survey period..... 4-63
Table 4-28. Anacortes–Sidney, British Columbia, westbound total boardings by origin and destination district, weekday all-day survey period..... 4-67
Table 4-29. Anacortes–Sidney, British Columbia, eastbound boardings by origin and destination district, Saturday survey period..... 4-71
Table 4-30. Anacortes–Sidney, British Columbia, westbound boardings by origin and destination district, Saturday survey period..... 4-75
Table 5-1. North Sound Corridor one-way trips by purpose and frequency, weekday 8-hour and Saturday survey periods (2006 and 2013)..... 5-4
Table 5-2. North Sound Corridor access mode and boarding method, weekday 8-hour and Saturday survey periods (2006 and 2013) 5-10
Table 5-3. North Sound Corridor egress mode and boarding method, weekday 8-hour and Saturday survey periods (2006 and 2013) 5-11
Table 5-4. North Sound Corridor access mode to ferry—boarding method—egress mode from ferry, weekday PM peak period (2013)..... 5-12
Table 5-5. North Sound Corridor access mode to ferry—boarding method—egress mode from ferry, weekday non-PM peak period (2013) 5-12
Table 5-6. North Sound Corridor access mode to ferry—boarding method—egress mode from ferry, Saturday survey period (2013) 5-13
Table 5-7. North Sound Corridor trips preferred sailing, weekday 8-hour and Saturday survey periods (2006 and 2013)..... 5-15
Table 5-8. Mukilteo–Clinton trips by purpose and direction, weekday 8-hour and Saturday survey periods (2006 and 2013)..... 5-18
Table 5-9. Mukilteo–Clinton one-way trips by purpose and frequency, weekday 8-hour and Saturday survey periods (2006 and 2013)..... 5-19
Table 5-10. Mukilteo–Clinton access mode and boarding methods, weekday 8-hour and Saturday survey periods (2006 and 2013) 5-24
Table 5-11. Mukilteo–Clinton egress mode and boarding methods, weekday 8-hour and Saturday survey periods (2006 and 2013) 5-25
Table 5-12. Mukilteo–Clinton trips by access mode to ferry—boarding method—egress mode from ferry, weekday PM peak period (2013)..... 5-26

Table 5-13. Mukilteo–Clinton trips by access mode to ferry—boarding method—egress mode from ferry, weekday non-PM peak period (2013) 5-26
Table 5-14. Mukilteo–Clinton trips by access mode to ferry—boarding method—egress mode from ferry, Saturday survey period (2013) 5-27
Table 5-15. Mukilteo–Clinton eastbound boardings by origin and destination district, weekday PM peak period 5-31
Table 5-16. Mukilteo–Clinton westbound boardings by origin and destination district, weekday PM peak period 5-36
Table 5-17. Mukilteo–Clinton eastbound boardings by origin and destination district, Saturday survey period 5-39
Table 5-18. Mukilteo–Clinton westbound boardings by origin and destination district, Saturday survey period 5-43
Table 5-19. Port Townsend–Coupeville trips by purpose and direction, weekday 8-hour and Saturday survey periods (2006 and 2013) 5-45
Table 5-20. Port Townsend–Coupeville one-way trips by purpose and frequency, weekday 8-hour and Saturday survey periods (2006 and 2013) 5-46
Table 5-21. Port Townsend–Coupeville access mode and boarding methods, weekday 8-hour and Saturday survey periods (2006 and 2013) 5-51
Table 5-22. Port Townsend–Coupeville egress mode and boarding methods, weekday 8-hour and Saturday survey periods (2006 and 2013) 5-52
Table 5-23. Port Townsend–Coupeville trips by access mode to ferry—boarding method—egress mode from ferry, weekday PM peak period (2013) 5-53
Table 5-24. Port Townsend–Coupeville trips by access mode to ferry—boarding method—egress mode from ferry, weekday non-PM peak period (2013) 5-53
Table 5-25. Port Townsend–Coupeville trips by access mode to ferry—boarding method—egress mode from ferry, Saturday survey period (2013) 5-54
Table 5-26. Port Townsend–Coupeville eastbound total boardings by origin and destination district, weekday PM peak period 5-59
Table 5-27. Port Townsend–Coupeville eastbound total boardings by origin and destination district, weekday 8-hour survey period 5-59
Table 5-28. Port Townsend–Coupeville westbound boardings by origin and destination district, weekday PM peak period 5-64
Table 5-29. Port Townsend–Coupeville westbound boardings by origin and destination district, weekday 8 hour survey period 5-64
Table 5-30. Port Townsend–Coupeville eastbound boardings by origin and destination district, Saturday survey period 5-67
Table 5-31. Port Townsend–Coupeville westbound boardings by origin and destination district, Saturday survey period 5-71
Table 6-1. Central Sound Corridor one-way trips by purpose and frequency, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-5

Table 6-2. Central Sound Corridor access mode and boarding method, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-12
Table 6-3. Central Sound Corridor egress mode and boarding method, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-13
Table 6-4. Central Sound Corridor trips by access mode to ferry—boarding method—egress mode from ferry, weekday PM Peak Period (2013 6-14
Table 6-5. Central Sound Corridor trips by access mode to ferry—boarding method—egress mode from ferry, weekday non PM peak period (2013) 6-14
Table 6-6. Central Sound Corridor trips by access mode to ferry—boarding method—egress mode from ferry, Saturday survey period (2013) 6-15
Table 6-7. Central Sound Corridor trips preferred sailing, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-17
Table 6-8. Seattle–Bainbridge Island trips by purpose and direction, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-20
Table 6-9. Seattle–Bainbridge Island one-way trips by purpose and frequency, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-21
Table 6-10. Seattle–Bainbridge Island access mode and boarding methods, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-26
Table 6-11. Seattle–Bainbridge Island egress mode and boarding methods, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-27
Table 6-12. Seattle–Bainbridge Island trips by access mode to ferry—boarding method—egress mode from ferry, weekday PM Peak Period (2013) 6-28
Table 6-13. Seattle–Bainbridge Island trips by access mode to ferry—boarding method—egress mode from ferry, weekday non PM peak period (2013) 6-28
Table 6-14. Seattle–Bainbridge Island trips by access mode to ferry—boarding method—egress mode from ferry, Saturday survey period (2013) 6-29
Table 6-15. Seattle–Bainbridge Island eastbound total boardings by origin and destination district, weekday PM peak period 6-36
Table 6-16. Seattle–Bainbridge Island westbound total boardings by origin and destination district, weekday PM peak period 6-41
Table 6-17. Seattle–Bainbridge Island westbound bicycle boardings by origin and destination district, weekday PM peak period 6-42
Table 6-18. Seattle–Bainbridge Island eastbound total boardings by origin and destination district, Saturday survey period 6-46
Table 6-19. Seattle–Bainbridge Island westbound total boardings by origin and destination district, Saturday survey period 6-50
Table 6-20. Seattle–Bremerton trips by purpose and direction, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-52
Table 6-21. Seattle–Bremerton one-way trips by purpose and frequency, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-53

Table 6-22. Seattle–Bremerton access mode and boarding methods, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-58
Table 6-23. Seattle–Bremerton egress mode and boarding methods, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-59
Table 6-24. Seattle–Bremerton trips by access mode to ferry—boarding method—egress mode from ferry, weekday PM Peak Period (2013) 6-60
Table 6-25. Seattle–Bremerton trips by access mode to ferry—boarding method—egress mode from ferry, weekday non PM peak period (2013) 6-60
Table 6-26. Seattle–Bremerton trips by access mode to ferry—boarding method—egress mode from ferry, Saturday survey period (2013) 6-61
Table 6-27. Seattle–Bremerton eastbound total boardings by origin and destination district, weekday PM Peak Period 6-68
Table 6-28. Seattle–Bremerton westbound total boardings by origin and destination district, weekday PM peak period 6-73
Table 6-29. Seattle–Bremerton westbound bicycle boardings by origin and destination district, weekday PM peak period 6-74
Table 6-30. Seattle–Bremerton eastbound boardings by origin and destination district, Saturday survey period 6-78
Table 6-31. Seattle–Bremerton westbound boardings by origin and destination district, Saturday survey period 6-82
Table 6-32. Edmonds–Kingston trips by purpose and direction, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-84
Table 6-33. Edmonds–Kingston one-way trips by purpose and frequency, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-85
Table 6-34. Edmonds–Kingston access mode and boarding methods, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-90
Table 6-35. Edmonds–Kingston egress mode and boarding methods, weekday 8-hour and Saturday survey periods (2006 and 2013) 6-91
Table 6-36. Edmonds–Kingston trips by access mode to ferry—boarding method—egress mode from ferry, weekday PM Peak Period (2013) 6-92
Table 6-37. Edmonds–Kingston trips by access mode to ferry—boarding method—egress mode from ferry, weekday non PM peak period (2013) 6-92
Table 6-38. Edmonds–Kingston trips by access mode to ferry—boarding method—egress mode from ferry, Saturday survey period (2013) 6-93
Table 6-39. Edmonds–Kingston eastbound total boardings by origin and destination district, weekday PM peak period 6-98
Table 6-40. Edmonds–Kingston westbound total boardings by origin and destination district, weekday PM peak period 6-103
Table 6-41. Edmonds–Kingston eastbound boardings by origin and destination district, Saturday survey period 6-106

Table 6-42. Edmonds–Kingston westbound boardings by origin and destination district, Saturday survey period 6-110
Table 7-1. South Sound Corridor one-way trips by purpose and frequency, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-5
Table 7-2. South Sound Corridor access mode and boarding method, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-11
Table 7-3. South Sound Corridor egress mode and boarding method, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-12
Table 7-4. South Sound Corridor access mode to ferry—boarding method—egress mode from ferry, weekday PM peak period (2013) 7-13
Table 7-5. South Sound Corridor trips by access mode to ferry—boarding method—egress mode from ferry, Weekday Non-PM Peak Period (2013) 7-13
Table 7-6. South Sound Corridor trips by access mode to ferry—boarding method—egress mode from ferry, Saturday survey period (2013) 7-14
Table 7-7. South Sound Corridor trips preferred sailing, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-16
Table 7-8. Fauntleroy–Vashon trips by purpose and direction, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-18
Table 7-9. Fauntleroy–Vashon one-way trips by purpose and frequency, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-19
Table 7-10. Fauntleroy–Vashon access mode and boarding methods, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-24
Table 7-11. Fauntleroy–Vashon egress mode and boarding methods, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-25
Table 7-12. Fauntleroy–Vashon trips by access mode to ferry—boarding method—egress mode from ferry, weekday PM peak period (2013) 7-26
Table 7-13. Fauntleroy–Vashon trips by access mode to ferry—boarding method—egress mode from ferry, Weekday Non-PM Peak Period (2013) 7-26
Table 7-14. Fauntleroy–Vashon trips by access mode to ferry—boarding method—egress mode from ferry, Saturday survey period (2013) 7-27
Table 7-15. Fauntleroy–Vashon eastbound total boardings by origin and destination district, weekday PM peak period 7-32
Table 7-16. Fauntleroy–Vashon westbound total boardings by origin and destination district, weekday PM peak period 7-37
Table 7-17. Fauntleroy–Vashon eastbound total boardings by origin and destination district, Saturday survey period 7-40
Table 7-18. Fauntleroy–Vashon westbound total boardings by origin and destination district, Saturday survey period 7-44
Table 7-19. Fauntleroy–Southworth trips by purpose and direction, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-46

Table 7-20. Fauntleroy–Southworth one-way trips by purpose and frequency, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-47
Table 7-21. Fauntleroy–Southworth access mode and boarding methods, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-52
Table 7-22. Fauntleroy–Southworth egress mode and boarding methods, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-53
Table 7-23. Fauntleroy–Southworth trips by access mode to ferry—boarding method—egress mode from ferry, weekday PM peak period (2013) 7-54
Table 7-24. Fauntleroy–Southworth trips by access mode to ferry—boarding method—egress mode from ferry, Weekday Non-PM Peak Period (2013) 7-54
Table 7-25. Fauntleroy–Southworth trips by access mode to ferry—boarding method—egress mode from ferry, Saturday survey period (2013) 7-55
Table 7-26. Fauntleroy–Southworth eastbound total boardings by origin and destination district, weekday PM peak period 7-60
Table 7-27. Fauntleroy–Southworth westbound total boardings by origin and destination district, weekday PM peak period 7-65
Table 7-28. Fauntleroy–Southworth eastbound boardings by origin and destination district, Saturday survey period 7-68
Table 7-29. Fauntleroy–Southworth westbound boardings by origin and destination district, Saturday survey period 7-72
Table 7-30. Southworth–Vashon trips by purpose and direction, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-74
Table 7-31. Southworth–Vashon one-way trips by purpose and frequency, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-75
Table 7-32. Southworth–Vashon access mode and boarding methods, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-80
Table 7-33. Southworth–Vashon egress mode and boarding methods, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-81
Table 7-34. Southworth–Vashon trips by access mode to ferry—boarding method—egress mode from ferry, weekday PM peak period (2013) 7-82
Table 7-35. Southworth–Vashon trips by access mode to ferry—boarding method—egress mode from ferry, Weekday Non-PM Peak Period (2013) 7-82
Table 7-36. Southworth–Vashon trips by access mode to ferry—boarding method—egress mode from ferry, Saturday survey period (2013) 7-83
Table 7-37. Southworth–Vashon eastbound total boardings by origin and destination district, weekday PM peak period 7-88
Table 7-38. Southworth–Vashon westbound total boardings by origin and destination district, weekday PM peak period 7-93
Table 7-39. Southworth–Vashon eastbound boardings by origin and destination district, Saturday survey period 7-96

Table 7-40. Southworth–Vashon westbound boardings by origin and destination district, Saturday survey period 7-100
Table 7-41. Point Defiance–Tahlequah trips by purpose and direction, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-102
Table 7-42. Point Defiance–Tahlequah one-way trips by purpose and frequency, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-103
Table 7-43. Point Defiance–Tahlequah access mode and boarding methods, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-108
Table 7-44. Point Defiance–Tahlequah egress mode and boarding methods, weekday 8 hour and Saturday survey periods (2006 and 2013) 7-109
Table 7-45. Point Defiance–Tahlequah trips by access mode to ferry—boarding method—egress mode from ferry, weekday PM peak period (2013) 7-110
Table 7-46. Point Defiance–Tahlequah trips by access mode to ferry—boarding method—egress mode from ferry, Weekday Non-PM Peak Period (2013)..... 7-110
Table 7-47. Point Defiance–Tahlequah trips by access mode to ferry—boarding method—egress mode from ferry, Saturday survey period (2013) 7-111
Table 7-48. Point Defiance–Tahlequah southbound total boardings by origin and destination district, weekday PM peak period 7-116
Table 7-49. Point Defiance–Tahlequah northbound total boardings by origin and destination district, weekday PM peak period 7-121
Table 7-50. Point Defiance–Tahlequah southbound boardings by origin and destination district, Saturday survey period..... 7-124
Table 7-51. Point Defiance–Tahlequah northbound boardings by origin and destination district, Saturday survey period..... 7-128
Table 8-1. Technical Advisory Committee members 8-1
Table 8-2. Weekday and Saturday survey times by route..... 8-3
Table 8-3. Survey response and usable surveys by survey period ridership..... 8-4
Table 8-4. Comparison of survey response and usable surveys to previous years by survey month ridership 8-5
Table 8-5. Survey response and precision statistics, weekday PM peak period 8-8
Table 8-6. WSF transportation analysis zone system 8-11

Appendices

Appendix A Survey Questionnaire
Appendix B WSF TAZ/District Systems
Appendix C Survey Database Documentation
Appendix D Characteristics of Non-Vehicle Mode Users–Corridor Level Findings

ACRONYMS AND ABBREVIATIONS

AVO	average vehicle occupancy
CBD	Central Business District
CTR	Commute Trip Reduction
GIS	geographic information system
PSRC	Puget Sound Regional Council
TAC	Technical Advisory Committee
TAZ	Transportation Analysis Zone
WSF	Washington State Ferries