

# Husky Football – 2007 Season Recycling & Solid Waste Report



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## SUMMARY

The Husky Football Recycling & Solid Waste program played an important role in ensuring a positive game-day experience for Husky Fans during the 2007 football season. Recycling & Solid Waste, Commuter Services, Grounds Maintenance, Waste Management Inc., and Intercollegiate Athletics (ICA) Facilities collaboratively managed an overall season attendance increase of 129,227 fans from the 2006 season. A total of 191.71 tons of garbage and recyclables was generated during the 2007 season.

The addition of one home game, as well as hosting the 100th Anniversary of the Apple Cup, contributed to the overall increase in waste generated during the 2007 season. The Apple Cup game generated the greatest amount of waste for a single game, contributing 40.57 tons to the 191.71 total tons generated for the 2007 season. This is a 76% increase over the amount generated in 2006. The total amount of recyclables diverted from landfill was 50.91 tons, equaling a 26.6% recycling rate. The total number of tons recycled increased substantially (67%) from the 2006 season, but resulted in a 1.3% decrease in percentage of material recycled. This is the first decrease in percentage of material recycled since 2003.

The following recommendations were implemented during the 2007 football season:

### Operations

- Continued to distribute blue recycling bags to tailgating fans who wanted to participate in the blue bag recycling program.
- Continued to collect cans and bottles in blue toters.
- Continued to collect cans, bottles, and cardboard from the parking lot and tailgating areas in blue recycling bags.
- Continued to collect food waste for composting by using green toters at food and beverage service locations.
- Continued to collect paper, game programs, newspapers, and drink carriers when cleaning the stadium interior, also known as “picking the bowl”.
- Continued to collect cans, bottles, game programs, and newspapers in the stadium by using toters with modified lids.

### Outreach

- Continued to promote the cans and bottles recycling program in the parking lots, tailgating areas, and stadium areas with the HuskyTron public service announcement that highlights Husky Toter recycling.

Additional changes and improvements were also implemented this season. In previous years the recycling toters used for cans and bottles collection and the grey trash toters used for garbage collection in the parking areas were 64 gallons. This year, the toters were changed from 64-gallon to 96-gallon size to provide increased capacity. The toters have lids and provide good containment of material. The toters are serviced by trucks with automated lifts, which eliminates the need for staff to lift full bags from receptacles. Our vendor, Waste Management, provided containers and collection for our waste and recycling services.

The Blue Bag Recycling Outreach program to promote cans, bottles, and cardboard recycling during tailgate parties was continued this season. A small team of student recycling staff distributed the translucent blue recycle bags throughout Parking Lots E1 and E12 and Padelford Hall's parking facility. To facilitate movement through the parking lots and have enough blue recycle bags on hand for distribution, staff drove an electric John Deere gator, in the bed of which was the Husky Recycling toter. The reaction to the toter from fans was outstanding and it helped to promote not only recycling, but also Husky Pride. The recycling staff offered the recycling bags to tailgate participants and were able to have conversations with many fans about the University's recycling services. Individuals at tailgate parties were instructed to fill the blue bags with their cans, bottles, and cardboard and then place them near the recycle toters. Regular tailgate participants already knew about the program from last season and continued to be very supportive and appreciative of it.

The 2006 season piloted the use of blue recycling toters with modified lids to allow for commingled collection of cans, bottles, newspapers, and game programs in the stadium concourse. This year, all recycling toters in the stadium concourse had these modified lids.

When picking the bowl, the cleanup crew continued to collect cans, bottles, newspapers, game programs, and cardboard drink carriers in clear plastic bags, separate from garbage collection. In 2007, a total of 3.13 tons of recyclables were collected from the stadium bowl seating area. This is a decrease of 25% from the previous year (3.9 tons).

Cans and bottles recycling also occurred at the Don James Center, the Dempsey Indoor Facility, and the entrances to the Bank of America Arena.

Recycling & Solid Waste continued to collaborate with food and beverage vendors to increase food waste collection by providing food waste toters for each vendor station in the stadium, the Don James Center, and the Dempsey Indoor Facility. Prior to each game, recycling staff members talked with vendors and their employees about food waste collection to increase awareness and understanding of the program and minimize contamination. In 2007, a total of 10.2 tons of food waste was collected from the food and beverage vendors.

All procedures and guidelines were followed for pre-game setup operations for parking lots and areas surrounding the stadium where waste and recycling toters are positioned for game-day use. All trash and recycling toters were placed on the business day prior to each home game.

As with previous years, Recycling & Solid Waste provided an event staff member during each home game to maintain recycling and garbage toters and address any overflow problems. Collaboration continued with ICA and Grounds on cleanup procedures, orientation, and workday supervision of a service group for cleanup of the parking lots. Recycling & Solid Waste developed maps and task sheets to assist staff in setup procedures, game-day operations, and clean-up procedures.

To increase public awareness of recycling opportunities at the stadium, a public service announcement was played on the HuskyTron a minimum of two times over the course of the pre-game activities and the game.

## RECOMMENDATIONS FOR 2008 SEASON

### Operations

- Collaborate with Grounds to plan supervision of the parking lot volunteer cleanup crew.
- Collaborate with Grounds to develop plan for increased collection of recyclables in parking lots during Sunday cleanup.
- Discuss with Stadium facilities staff the consolidation of stadium totes to service locations following each game.
- Discuss with ICA the supervision of stadium cleanup groups (picking the bowl) to ensure that maximum amount of recyclables are collected.
- Add a second Waste Management truck or operate the UW packer truck to service full cans/bottles totes in the parking lots at the start of Sunday cleanup.
- Use clear liner bags in stadium recycle totes.
- Ensure that there are adequate garbage and recycle containers at the Waterfront Activities Center for game attendees who arrive by boat.

### Outreach

- Continue to promote the cans and bottles recycling program in the parking lots, tailgating areas, and stadium areas with a new HuskyTron public service announcement that highlights Husky Toter recycling.
- Continue to promote recycling of cans, bottles, paper, and cardboard in the parking lots and tailgating areas through the distribution of blue recycle bags.
- Continue to use the John Deere gator with the Husky recycle toter in the bed.
- Expand pool of volunteers and/or employees for blue recycle bag distribution.
- Continue outreach with each food vendor regarding composting to ensure correct usage and reduce contamination.
- Create a new UW Recycling promotional item to distribute to tailgaters.
- Seek sponsorship and staff for up to two information booths to promote recycling.

## TOTAL TONNAGE 2007

<b>SOLID WASTE</b>									
<b>Location</b>	<b>Container</b>	<b>9/8</b>	<b>9/15</b>	<b>9/29</b>	<b>10/20</b>	<b>10/27</b>	<b>11/17</b>	<b>11/24</b>	<b>Total</b>
E-1 & E-12 Parking Lots	8 x 4 yd	1.26	1.26	1.26	1.26	1.26	1.26	1.26	<b>8.82</b>
North Stands & WAC	3 x 4 yd	0.48	0.48	0.48	0.48	0.48	0.48	0.48	<b>3.36</b>
E-10 Parking Lot/Silo	1 x 30 yd	2.82	3.38	4.52	4.24	3.07	1.94	9.72	<b>29.69</b>
Dempsey Indoor Facility	1 x 30 yd	0.26	0.64	0.41	0.29	0.30	n/a	n/a	<b>1.90</b>
Stadium	190 x 96 gal	6.24	7.76	7.83	6.60	6.10	5.44	9.43	<b>49.40</b>
Parking Lots	280 x 96	5.98	8.34	7.51	6.68	3.93	4.72	10.47	<b>47.63</b>
	<b>Game Day Totals</b>	17.04	21.86	22.01	19.55	15.14	13.84	31.36	<b>140.80</b>

<b>RECYCLE</b>									
<b>Location</b>	<b>Container</b>	<b>9/18</b>	<b>9/15</b>	<b>9/29</b>	<b>10/20</b>	<b>10/27</b>	<b>11/17</b>	<b>11/24</b>	<b>Total</b>
Frontload - Cardboard	3 x 4 yd	0.29	0.30	0.27	0.28	0.27	0.27	0.29	<b>1.97</b>
West Plaza - Cardboard	1 x 30 yd	0.45	0.95	1.25	0.72	0.74	0.62	1.15	<b>5.88</b>
West Plaza - Cans & Bottles	1 x 30 yd	0.79	0.40	0.47	0.56	0.30	0.16	0.45	<b>3.13</b>
All Locations - Cans & Bottles	220 x 96 gal	3.98	5.10	4.15	3.64	2.21	2.40	5.36	<b>26.84</b>
North Stands - Cans & Bottles	1x 2 yd	0.14	0.15	0.15	0.14	0.14	0.14	0.14	<b>1.00</b>
Dempsey Indoor Facility - Cans & Bottles	1x 2 yd	0.14	0.15	0.15	0.15	0.14	0.14	0.19	<b>1.06</b>
Dempsey Indoor Facility - Cardboard	1 x 30 yd	N/A	N/A	N/A	N/A	N/A	0.20	0.63	<b>0.83</b>
Food Waste	53 x 35 gal	1.50	1.55	1.90	1.45	1.65	1.15	1.00	<b>10.20</b>
	<b>Game Day Totals</b>	7.29	8.60	8.34	6.94	5.45	5.08	9.21	<b>50.91</b>

<b>TOTAL TONNAGE 2007</b>		
	<b>TONS</b>	<b>%</b>
<b>Solid Waste</b>	<b>140.80</b>	<b>73.4%</b>
<b>Recycle</b>	<b>50.91</b>	<b>26.6%</b>

## YEARLY TONNAGE COMPARISONS

<b>SOLID WASTE</b>					
<b>Location</b>	<b>Container</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>
E-1 & E-12 Parking Lots	8 x 4 yd	6.95	8.91	6.45	8.82
North Stands & WAC	3 x 4 yd	2.22	2.78	2.39	3.36
E-10 Parking Lot/Silo	1 x 30 yd	9.92	4.73	3.11	29.69
Dempsey Indoor Facility	1 x 30 yd	4.83	3.28	2.19	1.90
Stadium	190 x 96 gal	49.59	43.95	35.76	49.40
Parking Lots	280 x 96 gal	27.39	37.22	28.85	47.63
	<b>Season Totals</b>	<b>100.90</b>	<b>100.87</b>	<b>78.75</b>	<b>140.80</b>

<b>RECYCLE</b>					
<b>Location</b>	<b>Container</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>
Frontload - Cardboard	3 x 4 yd	1.72	1.21	2.35	1.97
West Plaza - Cardboard	1 x 30 yd	2.90	4.39	4.28	5.88
West Plaza - Cans & Bottles	1 x 30 yd	4.52	3.37	3.90	3.13
All Locations - Cans & Bottles	220 x 96 gal	10.63	10.17	14.79	26.84
North Stands - Cans & Bottles	1x 2 yd	N/A	N/A	N/A	1.00
Dempsey Indoor Facility - Cans &	1x 2 yd	N/A	N/A	N/A	1.06
Dempsey Indoor Facility - Cardboard	1 x 30 yd	N/A	N/A	N/A	0.83
Food Waste	50 x 35 gal	N/A	3.15	5.12	10.20
	<b>Season Totals</b>	<b>19.77</b>	<b>22.29</b>	<b>30.44</b>	<b>50.91</b>

<b>TOTAL TONNAGE</b>	<b>2004</b>		<b>2005</b>		<b>2006</b>		<b>2007</b>	
	<b>TONS</b>	<b>%</b>	<b>TONS</b>	<b>%</b>	<b>TONS</b>	<b>%</b>	<b>TONS</b>	<b>%</b>
<b>Solid Waste</b>	<b>100.90</b>	<b>83.6%</b>	<b>100.87</b>	<b>81.9%</b>	<b>78.75</b>	<b>72.1%</b>	<b>140.80</b>	<b>73.4%</b>
<b>Recycle</b>	<b>19.77</b>	<b>16.4%</b>	<b>22.29</b>	<b>18.1%</b>	<b>30.44</b>	<b>27.9%</b>	<b>50.91</b>	<b>26.6%</b>

## NORTH STANDS

Service Requirements				
Material	Container	Quantity	Location	Service
Garbage	4 cubic yard	1 - permanent 1 - temporary	North stands	Th/F/M by 6am
Cans & bottles	2 cubic yard	1 - permanent	North stands	Th (UW) & Sun (WM)
Cardboard	4 cubic yard	2 - temporary	North stands	Th/F/M by 6am

Placement	
Container	Details
All dumpsters (garbage & recycling)	Under east end of stands by Tunnel 31.

Tonnage									
Material	Container	9/8	9/15	9/29	10/20	10/27	11/17	11/24	Total
Garbage (North Stands, Dempsey, and WAC combined)	2 x 4 cubic yard	0.48	0.48	0.48	0.48	0.48	0.48	0.48	<b>3.36</b>
Cardboard (North Stands and Dempsey combined)	2 x 4 cubic yard	0.29	0.3	0.27	0.28	0.27	0.27	0.29	<b>1.97</b>
Cans & bottles	1 x 2 cubic yard	0.14	0.15	0.15	0.14	0.14	0.14	0.14	<b>1.00</b>

## HUSKY STADIUM – TRASH TOTERS

Service Requirements				
Material	Container	Quantity	Location	Service
Garbage	Toter - 96 gal	190 - temporary	East stands	Sun 7am

Placement	
Container	Details
Toters	Placement at east end of stadium, under scoreboard.

Tonnage									
Material	Container	9/8	9/15	9/29	10/20	10/27	11/17	11/24	Total
Garbage	190 toters	6.24	7.76	7.83	6.60	6.10	5.44	9.43	<b>49.40</b>

## E-10 SILO

Service Requirements				
Material	Container	Quantity	Location	Service
Garbage	30 cubic yard	1 - permanent	South stands; moved to "BBQ pit" for game	Th/F/Sun
Cardboard	2 cubic yard	1 - permanent	South stands; moved to "BBQ pit" for game	M/W/F (UW)

Placement	
Container	Details
Rolloff & dumpster	In the center of the "BBQ pit" after 4pm and before 9pm Friday, prior to game. Relocated to the "SILO," under south stands, after the game and before 6am Monday.

Tonnage									
Material	Container	9/8	9/15	9/29	10/20	10/27	11/17	11/24	Total
Garbage	1 x 30 cubic yard	2.82	3.38	4.52	4.24	3.07	1.94	9.72	<b>29.69</b>

## E-12 PARKING LOT

<b>Service Requirements</b>				
<b>Material</b>	<b>Container</b>	<b>Quantity</b>	<b>Location</b>	<b>Service</b>
Garbage	4 cubic yard	2 - temporary	East end and west end of E-12	Place F 4pm-12am; pull Sun 4pm-M 6am

<b>Placement</b>	
<b>Container</b>	<b>Details</b>
Dumpsters	One at east end near portable toilets; one at west end near 3-way stop.

<b>Tonnage</b>		
<b>Material</b>	<b>Container</b>	<b>Notes</b>
Garbage (E-12 Parking Lot combined with E-1 Parking Lot)	2 x 4 cubic yard	See E-1 Parking Lot; tonnage for E-12 Parking Lot combined with E-1 Parking Lot.

## WATERFRONT ACTIVITIES CENTER

Service Requirements				
Material	Container	Quantity	Location	Service
Garbage	2 cubic yard	1 - permanent	Canoe House	M/W/F (UW)
Garbage	4 cubic yard	1 - temporary	Canoe House	F/M
Garbage	2 cubic yard	1 - permanent	WAC	M/W/F (UW)
Cans & bottles	Toter - 96 gal	1 - permanent 6 - temporary	WAC	Weekly

Placement	
Container	Details
Dumpster (2 cubic yard)	At the corner of the asphalt near the Canoe House.
Dumpster (4 cubic yard)	At the corner of the asphalt near the Canoe House, alongside permanent dumpster.
Dumpster (2 cubic yard)	To the right of WAC building, in recessed area.
Toters	Alongside existing litter receptacles at WAC building.

Tonnage		
Material	Container	Notes
Garbage	1 x 4 cubic yard	See North Stands; tonnage for Waterfront Activities Center combined with North Stands.
Cans & bottles	7 toters	See Parking Lots - Husky Recycling Toters; tonnage for Waterfront Activities Center combined with Parking Lots - Husky Recycling Toters.

## DEMPSEY INDOOR FACILITY

Service Requirements				
Material	Container	Quantity	Location	Service
Garbage	30 cubic yard	1 - temporary	Tennis facility	Place F 4pm-12am; pull Sun 4pm-M 6am
Garbage	2 cubic yard	1 - permanent	Loading dock	F/M
Cardboard	30 cubic yard	1 - temporary for garbage that was used for cardboard during November games	Tennis facility	Place F 4pm-12am; pull Sun 4pm-M 6am
Cans & bottles	2 cubic yard	1 - temporary	Tennis facility	Th (UW) & Sun (WM)
Cardboard	4 cubic yard	1 - temporary	Tennis facility	Fri/Sun
Cans & bottles	Toter - 35 gal	4 - permanent	Inside facility	Sun 7am-7pm
Cans & bottles	Toter - 35 gal	6 - temporary	Inside facility	Sun 7am-7pm

Placement	
Container	Details
Rolloff	Near back door of tennis facility, on left side of walkway.
Dumpster (garbage)	At or near Dempsey loading dock.
Dumpster (cans/bottles)	Near rolloff along walkway to Dempsey Indoor Facility.
Dumpster (cardboard)	Near rolloff along walkway to Dempsey Indoor Facility.
Toters	Inside Dempsey Indoor Facility.

Tonnage									
Material	Container	9/8	9/15	9/29	10/20	10/27	11/17	11/24	Total
Garbage	1 x 30 cubic yard	0.26	0.64	0.41	0.29	0.30	0.00	0.00	<b>1.90</b>
Garbage	1 x 2 cubic yard	See North Stands; tonnage for Dempsey combined with North Stands.							
Cardboard	1 x 30 cubic yard	N/A	N/A	N/A	N/A	N/A	0.20	0.63	<b>0.83</b>
Cans & bottles	1 x 2 cubic yard	0.14	0.15	0.15	0.15	0.14	0.14	0.19	<b>1.06</b>
Cans & bottles	10 toters	See Parking Lots - Husky Recycling Toters; tonnage for Dempsey combined with Parking Lots - Husky Recycling Toters.							
Cardboard	1 x 4 cubic yard	See North Stands; tonnage for Dempsey combined with North Stands.							



## WEST PLAZA

<b>Service Requirements</b>				
<b>Material</b>	<b>Container</b>	<b>Quantity</b>	<b>Location</b>	<b>Service</b>
Cans & bottles	30 cubic yard	1 - temporary	West Plaza gate	Place by Sun 7am; pull Sun 4pm-M 6am
Cardboard	30 cubic yard	1 - temporary	West Plaza gate	Place by Sun 7am; pull Sun 4pm-M 6am

<b>Placement</b>	
<b>Container</b>	<b>Details</b>
Rolloffs	End-to-end with hinges on west side (toward Montlake Blvd.), so that lid opening is on stadium side.

<b>Tonnage</b>									
<b>Material</b>	<b>Container</b>	<b>9/8</b>	<b>9/15</b>	<b>9/29</b>	<b>10/20</b>	<b>10/27</b>	<b>11/17</b>	<b>11/24</b>	<b>Total</b>
Cans & bottles	1 x 30 cubic yard	0.79	0.40	0.47	0.56	0.30	0.16	0.45	<b>3.13</b>
Cardboard	1 x 30 cubic yard	0.45	0.95	1.25	0.72	0.74	0.62	1.15	<b>5.88</b>

## PARKING LOTS – TRASH TOTERS

Service Requirements				
Material	Container	Quantity	Location	Service
Garbage	Toter - 96 gal	280 - temporary	E-1, E-9, E-12, Padelford	Sun 8am-8pm

Placement	
Container	Details
Toters	Next to Husky recycling toters in parking lots.

Tonnage									
Material	Container	9/8	9/15	9/29	10/20	10/27	11/17	11/24	Total
Garbage	280 toters	5.98	8.34	7.51	6.68	3.93	4.72	10.47	<b>47.63</b>

## PARKING LOTS/STADIUM – HUSKY RECYCLING TOTERS

Service Requirements				
Material	Container	Quantity (est.)	Location	Service
Cans & bottles	Toter - 96 gal	220 - temporary	E -1, E-9, E-12, Padelford	Sun 7am-7pm
Cans & bottles	Toter - 35 gal & 64 gal	30 - permanent	ICA	Sun 7am-7pm
Cans & bottles & paper	Toter - 35 gal	100 - temporary	Stadium	Sun 7am-7pm

Placement	
Container	Details
Toters (parking lots)	Next to trash toters.
Toters (ICA)	Next to existing trash cans throughout ICA facilities.
Toters (stadium)	Next to trash cans.

Tonnage									
Material	Container	9/8	9/15	9/29	10/20	10/27	11/17	11/24	Total
Cans & bottles (all recycle toters and 2-cubic-yard dumpsters at North Stands, Stadium, WAC, and Dempsey)	220 toters	3.98	5.10	4.15	3.64	2.21	2.40	5.36	<b>26.84</b>

## STADIUM & DEMPSEY INDOOR FACILITY - FOOD SERVICE/VENDORS

<b>Service Requirements</b>				
<b>Material</b>	<b>Container</b>	<b>Quantity</b>	<b>Location</b>	<b>Service</b>
Food waste	Toter - 35 gal	47 - temporary	Stadium	Mon
Food waste	Toter - 35 gal	6 - temporary	Dempsey	Mon

<b>Placement</b>	
<b>Container</b>	<b>Details</b>
Toter (Stadium)	At each Starbucks tent, lemonade stand, and concession stand in the concourse area and at the Don James Center.
Toter (Dempsey)	At the catering area inside Dempsey Indoor Facility.

<b>Tonnage</b>									
<b>Material</b>	<b>Container</b>	<b>9/8</b>	<b>9/15</b>	<b>9/29</b>	<b>10/20</b>	<b>10/27</b>	<b>11/17</b>	<b>11/24</b>	<b>Total</b>
Food waste	53 toters	1.50	1.55	1.90	1.45	1.65	1.15	1.00	<b>10.20</b>

## FIRST AID STATION – TUNNEL 17

Service Requirements				
Material	Container	Quantity	Location	Service
Biomedical waste	40-gal tub	1 - temporary	First Aid room	F 8am-2pm

Placement	
Container	Details
Tubs	Tunnel 17 First Aid Station, just inside double door, in hallway to the right.

Tonnage		
Material	Container	Notes
Biomedical Waste/Sharps	tubs	Total of 1 tub of waste collected during the season.

## 2007 GAME DAY SUMMARY

	<b>Opposing Team</b>	<b>Start Time</b>	<b>Temperature</b>	<b>Weather</b>	<b>Attendance</b>	<b>Garbage: Total Tonnage</b>	<b>Recycle: Total Tonnage</b>	<b>Solid Waste: Total Tonnage</b>	<b>Recycling %</b>
<b>September 8, 2007</b>	Boise State	12:30 PM	65° F	Clear	70,045	17.04	7.29	24.33	30.0%
<b>September 15, 2007</b>	Ohio State	12:30 PM	62° F	Overcast	74,927	21.86	8.60	30.46	28.2%
<b>September 29, 2007</b>	USC	5:00 PM	54° F	Light Rain	68,654	22.01	8.34	30.35	27.5%
<b>October 20, 2007</b>	Oregon	4:30 PM	52° F	Overcast	66,481	19.55	6.94	26.49	26.2%
<b>October 27, 2007</b>	Arizona	12:00 PM	48° F	Clear	61,124	15.14	5.45	20.59	26.5%
<b>November 17, 2007</b>	California	12:30 PM	49° F	Light Rain	60,005	13.84	5.08	18.92	26.8%
<b>November 24, 2007</b>	Washington State	4:00 PM	45° F	Cloudy	72,888	31.36	9.21	40.57	22.7%
				<b>SEASON TOTALS</b>	<b>474,124</b>	<b>140.80</b>	<b>50.91</b>	<b>191.71</b>	<b>26.6%</b>