

ABC

Wisconsin Department of Transportation – Bureau of Aeronautics

Airport Benefit-Cost System
V3.2

**Appendix A:
Overall Structure – Forms and Reports**

1. OBJECTIVE

The ABC-3 System is designed to serve two purposes:

- (1) to evaluate the economic contribution of airports at the regional and state levels, and
- (2) to conduct benefit-cost analysis for airport improvement projects.

2. STRUCTURE

A series of pre-set input forms allow for entering and updating the standard information regarding airport activity and project impacts. A series of pre-set results reports allow for viewing and printing the analysis results. The selection of the input forms and output reports is facilitated by an overall navigation window.

With this flexible database format, WisDOT will also have the ability to:

- (1) view and update any and all aspects of the raw data and calculation assumptions,
- (2) query the database and
- (3) add custom reports, to pull out any specific data desired.

3. RESULTS REPORTS

There are two basic types of analysis, each of which has its own reports:

A. Airport Role in the Economy

Report A1. Airport Role in the Economy. This report shows the economic contribution of airports. It may be printed separately for an *individual airport*, or for the *sum of all airports* in the state. By using filters, the sum may be restricted to a specific class or group of airports, if desired.

Report A2. List of Airports: Economic Role. This report *lists all the airports* and summarizes their contributions to the economy (one airport per line). It can be used for comparing airports.

B. Project Benefit-Cost Analysis

Report B1. Project Benefit-Cost Analysis. This report shows the benefits and costs for proposed projects. It may be printed separately for an *individual project*, or for the *sum of all projects* in the state. By using filters, the sum may be restricted to a specific class or group of airports, if desired.

Report B2. List of Projects: Benefit-Cost. This report *lists all projects* and their relative benefit-cost results (one project per line). It can be used for comparing projects.

ABC Airport Benefit-Cost System

V3.2

Welcome. This is the Navigation Form Window. You should keep this window open at all times.

Use this form to open any other form or report. Note that you will have to close any previously-open form or report in order to return here and select any other form or report.

Some reports and forms may be opened without choosing any specific airport or project, others require a specific airport to be selected, and yet others require the selection of both a specific airport and a specific project.

To open a form or report, use the controls in the following order -- (1) first choose one of the ten forms and reports; (2) then choose an airport (if one is required); (3) then choose a project (if one is required); (4) then press the open button. If a project or airport is required but not selected, the open button is disabled. If an airport is required but not selected, the project selector remains disabled.

Instructions on how to add or delete projects or airports are included at the bottom of this form.

Navigation Controls

Input Forms

- Input Form 1: Airport Activity Data
- Input Form 2: Project Impact Data
- Input Form 3: Constants

Auxiliary Output Forms

- (A3) Airport Activity Projections
- (B3) Project Impacts on Airport Activity Levels
- (B4) Project Impacts on Airport Delay
- (B5) Project Benefits and Costs By Year

Output Forms

- (A1) Airport Role In The Economy
- (A2) List of Airports: Economic Role
- (B1) Project Benefit-Cost Report
- (B2) List of Projects: Benefit-Cost

Airport:

Project:

To Add an Airport --

(1) Open Input form 1, selecting any existing airport. (2) Use the VCR-like controls to navigate to the insertion record that is located one record past the last airport record in the form. Just press the >* button to do this. A new airport record will appear, which is completely filled with default data. (3) Enter the new airport data into this record. At a minimum, you must enter the correct code for the new airport.

To Add a Project --

(1) Open Input form 2, selecting any existing project. (2) Use the VCR-like controls to navigate to the insertion record that is located one record past the last project record in the form. Just press the >* button to do this. A new project record will appear, which is completely filled with default data. (3) Enter the new project data into this record. At a minimum, you must enter the correct code for the airport, and the correct ID for the new project. Project IDs must be unique system wide.

To Delete an Airport --

- (1) Open Input form 1 for the airport to be deleted.
- (2) Choose delete record from the edit menu.

To Delete a Project --

- (1) Open Input form 2 for the project to be deleted.
- (2) Choose delete record from the edit menu.

ABC**Airport Benefit-Cost System**

V3.2

(A1) AIRPORT ROLE IN THE ECONOMYSheboygan County Mem
Sheboygan CountyEvaluated for Year
Run Date1998
3/30/01 11:50:21 AM

Contribution to the LOCAL Economy	Full-time Equiv. Jobs	Annual Wage Income	Business Output (Sales)
<u>Airport Operations</u>			
At Airport -- direct effect	42	\$1,469,958	\$1,988,490
Off-site spending by air passengers	116	\$3,897,368	\$6,512,839
Off-site air freight	0	\$0	\$0
Indirect & Induced multiplier effect	210	\$9,220,875	\$12,214,681
<i>Total Airport Operations Impact</i>	<i>368</i>	<i>\$14,588,201</i>	<i>\$20,716,010</i>

Net Contribution to the STATE Economy	Full-time Equiv. Jobs	Annual Wage Income	Business Output (Sales)
<u>Airport Operations</u>			
Airport activity -- direct effect	42	\$1,469,958	\$1,988,490
Off - site spending by air passengers	116	\$3,897,368	\$6,512,839
Off - site air freight	0	\$0	\$0
Indirect Induced multiplier effect	231	\$9,844,835	\$14,688,806
<i>Total Airport Operations Impact</i>	<i>389</i>	<i>\$15,212,161</i>	<i>\$23,190,134</i>

Public Revenue -- direct effect	Revenues
Local Public Landing & Storage Fees	\$52,198
Local Public Concession Rents	\$0
Other Local Fees, Taxes, Revenues	\$72,288
State Fuel Tax Revenues	\$42,512
State Registration Fees	\$33,100
<i>Total Revenues</i>	<i>\$200,098</i>

ABC Airport Benefit-Cost System

V3.2

(A2) LIST OF AIRPORTS: ECONOMIC ROLE (Airport Operations)

Run Date

3/30/01 3:42:52 PM

Airport	At-Airport		Overall Regional Effect			Overall Statewide Effect		
	Employment	Income (1000\$)	Employment	Income (1000\$)	Bus. Sales (1000\$)	Employment	Income (1000\$)	Bus. Sales (1000\$)
Sheboygan Cou	42	1,470	368	14,588	20,716	389	15,212	23,190
Total	42	1,470	368	14,588	20,716	389	15,212	23,190

ABC Airport Benefit-Cost System

V3.2

(B2) LIST OF PROJECTS: BENEFIT-COST(Airport Operations)

Group:
All Projects

Run Date 3/30/01 3:46:15 PM
Discount Rate 5.00%

Project	Discounted Net Present Value of Benefit and Cost Streams						
	Travel Efficiency Benefits (1000\$)	Total Public Benefits (1000\$)	Govt. Revenue (1000\$)	Project Cost (1000\$)	Travel Efficiency B/C	Statewide Public B/C	Fiscal: Govt. Rev / Cost
SBM-RWX-00	\$12,167	\$12,615	\$585	\$8,718	1.40	1.45	0.07
Total	\$12,167	\$12,615	\$585	\$8,718	1.40	1.45	0.07

4. INPUT FORMS

There are preset forms for on-screen input, covering (1) airport activity and (2) project impacts. These two forms assume that changes in future years occur at a constant annual rate. If that is not true, then data may alternatively be entered directly into database tables. A third form allows for updating of the preset coefficients used for calculation of the economic value of benefits.

Input Form 1. Airport Activity Data. This form allows the user to enter, view and update data on current activity at *each airport*, and to extrapolate them into the future. It covers:

Airport Name, Location and ID
Airport Class and Airport Group (option for user defined categories)
Number of Annual Operations (for each of 5 operations categories) & rate of growth in future
Passengers per Operation (for 5 operations categories) & rate of growth in future
Visitor portion of Passengers (for 5 operations categories)
Cargo tons per Operation (for up to 5 operations categories) & rate of growth in future
Revenues per Operation (landing fees, fuel sales, concession rents, for 5 operations categories)
Number of Based Aircraft (for each of 3 aircraft categories) & rate of growth in future
Storage Revenues per Based Aircraft (for 3 aircraft categories)
Airport Employment (airport/FBO, airport tenants off-site air freight)
Property Tax Generated by the Airport
Average Local Spending per Visiting Passenger (business and non-business travelers)
Local Economic Multipliers: (Employment, Output and Wages)

Input Form 2. Project Impact Data. This form allows the user to enter, view and update impact estimates for *each project*, and to extrapolate them into the future. It covers:

Project Name and ID
Airport Location Code
Project Group (option for user defined categories),
Project Capital Cost, Annual Maintenance Cost, Project Start Year, End Year and Project Life
Change in Annual Operations (for each of 5 operations categories) & growth multiplier
Change in Passengers per Operation (for each of 5 operations categories)
Change in Cargo tons per Operation (for up to 5 operations categories)
Change in Based Aircraft (for each of 3 based aircraft categories) & growth multiplier
Shift Portion of Additional Annual Operations (for 5 operations categories)
Shift Portion of Additional Based Aircraft (for 3 based aircraft categories)
Change in Aircraft Travel Time for Existing & Shifted Users (for 5 operations categories)
Change in Ground Travel Time for Shifted Users (for 5 operations categories)
Safety Improvements, Local Econ. Development Impacts, Business transportation and production savings, and \$ Value of Public Benefits

Input Form 3. Constants. This form allows the user to view and update assumptions (coefficients) regarding the economic valuation of benefits. It covers:

Aircraft Operating Cost -- (cost for air time, by 5 operations categories)
Emission Rates (pounds per minute and pounds per operation, for 5 operations categories)
Noise Level (per operation, for 5 operations categories)
Value of Traveler Time Savings (for business and personal travel)
State Fuel Tax/Fuel Sales
Discount Rate
State Economic Ratios and Multipliers: (Employment, Output and Wages)
Avg. State Registration Fee (for 3 aircraft categories)

ABC

Airport Benefit-Cost System

V3.2

Input Form 1: Airport Activity Data

Airport Name	<input type="text" value="Sheboygan County Memorial Air"/>	Airport ID	<input type="text" value="SBM"/>
Airport Location	<input type="text" value="Sheboygan County"/>	Date Updated	<input type="text" value="3/30/01 11:50:21 AM"/>
Airport Class	<input type="text" value="Basic Utility Airport"/>	Base Year For Data	<input type="text" value="1998"/>
Airport Group	<input type="text" value="Sample Data"/>	<input checked="" type="checkbox"/> Airport Is Publicly Owned	

Operations Average and Revenues per Operation (for Base Year) (fill in)

	GA Local	GA Itinerant	Commuter	AirTaxi	Air Carrier
# Annual Operations	38108	45286	0	5006	0
# Passengers per Operation	2.7	2.7	16	2.9	119.8
# Cargo Tons per Operation	0	0	0	0	0
Visitor Portion of Passengers	0%	100%	55%	55%	55%
Avg. Landing Fee per Operation	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avg. Fuel Sales per Operation	\$16.03	\$16.03	\$0.00	\$16.03	\$0.00
Avg. Concession Rent per Oper.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Noise Level per Operation (dBA)	61.0	61.0	74.4	61.0	87.5

<input type="checkbox"/> Check if not Entering Growth Rate	Annual Growth Rate for # of Operations (%)	<input type="text" value="2.08%"/>
<input checked="" type="checkbox"/> Check if not Entering Growth Rate	Annual Growth Rate for # of Psgrs per Op (%)	<input type="text" value="0.00%"/>
<input checked="" type="checkbox"/> Check if not Entering Growth Rate	Annual Growth Rate for Cargo Tons per Op (%)	<input type="text" value="0.00%"/>

Based Aircraft and Revenues per based Aircraft (for Base Year) (fill in)

	Single Engine	Multi Engine	Jet
# Based Aircraft	100	32	9
Avg. Annual Storage Rev. / Based Aircraft	\$370	\$370	\$370

<input type="checkbox"/> Check if not Entering Growth Rate	Annual Growth Rate for # Based Aircraft (%)	<input type="text" value="0.53%"/>
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Local Economic Factors (fill in)

Employment: Airport operations FBO (jobs)	26
Employment: Other Airport Tenants (jobs)	16
Employment: Airport Related Offsite (jobs)	0
Other Local Fees, Taxes, Revenues	\$72,288
Local \$ Spent per Visitor	\$100

Regional Economic Ratios	Region Economic Ratios		Regional Multipliers		
	Direct Sales / Direct Emp.	Direct Wages / Direct Emp.	Total Emp. / Direct Emp.	Total Wages / Direct Wages	Total Sales / Direct Sales
Air Transportation	\$47,345	\$34,999	1.62	1.58	1.32
Retail / Restaurant / Hotel	\$56,239	\$33,598	1.22	1.77	1.47

Close

ABC**Airport Benefit-Cost System**

V3.2

Input Form 2: Project Impact Data

Project ID	SBM-RWX-0	Project Capital Cost (\$)	9,965,200
Project Name	Runway Extension 03-21 and 13-31 plus tways,	Project Maintenance Cost/Year (\$)	6,000
Project Name 2	SBMRWYEXT	Project Life (yrs)	30
Project Group	Rwy Extension	Construction Start Year	2001
Airport ID	SBM	Construction End Year	2007
Impact on Operations in First Year	(fill in)	Date Updated	3/30/01 2:51:25 PM

	GA Local	GA Itinerant	Commuter	AirTaxi	Air Carrier
Change in Annual Operations (Nbr)	420	499	0	55	0
Percent Shifted of that Change (%)	75.00%	75.00%	0.00%	75.00%	0.00%
Change in Passengers per Operation (Nbr)	0.0	0.0	0.0	0.0	0.0
Change in Cargo Tons per Operation (Nbr)	0.0	0.0	0.0	0.0	0.0
Change in Air Time/Oper: Existing Users (min)	0.5	0.5	0.0	0.5	0.0
Change in Air Time/Oper: Shifted Users (min)	12.0	12.0	0.0	12.0	0.0
Change in Grnd Time/Pax: Shifted Users (min)	30.0	30.0	0.0	30.0	0.0

Impact on Based Aircraft in First Year (fill in)

	Single Engine	Multi Engine	Jet
Change in Based Aircraft (Nbr)	1	0	0
Percent Shifted of that Change (%)	75%	75%	75%

Impact on Operations and Based Aircraft in Future Years (fill in)

Multiplier on Default Airport Operations Growth Rate (Nbr)	1.441	<input type="checkbox"/>	Check if not Entering a Multiplier
Multiplier on Default Based Aircraft Growth Rate (Nbr)	3.616	<input type="checkbox"/>	Check if not Entering a Multiplier

Other Project Impacts in First Year (fill in)

Safety Improvement (scale)	2
Dollar Value of Public Benefits	\$25,000
Additional Business Savings - Transportation	\$0
Additional Business Savings - Production	\$0
Other Public Benefits	\$0
Local Economic Development Benefits (\$/year)	\$0

Close

ABC

Airport Benefit-Cost System
V3.2

Input Form 3: Constants

Rates For Aircraft Operation *(fill in)*

Date Updated 3/30/01 12:12:00 PM

	GA Local	GA Itinerant	Commuter	Air Taxi	Air Carrier
Operating Cost / Minute (\$)	\$3.17	\$3.17	\$9.53	\$7.07	\$47.93
Percent of Passengers on Business (%)	43%	43%	48%	90%	48%
Emissions per Operation (lbs)	6.2	6.2	6.6	14.8	24.5
Emissions per Air Minute (lbs)	0.4	0.4	0.4	0.9	1.5

Rates for based Aircraft *(fill in)*

	Single Engine	Multi Engine	Jet
State Registration Revenue / Aircraft	\$50	\$135	\$2,000

Unit Valuation *(fill in)*

Value of Time / Minute (Personal) (\$)	\$0.46
Value of Time / Minute (Business) (\$)	\$0.66
State Fuel Tax / Fuel Sales (ratio)	0.030
Discount Rate (%)	5.000%

Statewide Economic Ratios *(fill in)*

	State Economic Ratios		Statewide Multipliers		
	Direct Sales / Dir. Emp.	Direct Wages / Dir. Emp.	Total Emp. / Dir. Emp.	Total Wages / Dir. Wages	Total Sales / Dir. Sales
Air Transportation	\$50,669	\$37,514	1.85	1.60	1.58
Retail / Restaurant / Hotel	\$58,527	\$35,302	1.32	1.81	1.77

Close

5. SUPPLEMENTARY REPORTS

The input forms ask for base year airport activity and first year project impacts, along with annual base case growth rates for future years and the project's *multipliers* (if any) on those growth rates. The computer system then projects the corresponding figures for future years, based on the given rates of growth and multipliers. These "supplementary reports" show the calculated numbers for those future years. By reviewing those numbers, the analyst can verify that they seem reasonable. If not, then the analyst has the option of either (1) reentering different growth rates in input forms #1 - 2, or (2) directly altering the future year numbers on the internal database tables (as explained in the user guide). The latter option is warranted when the airport activity growth rate is expected to slow down or stop at some point, or is otherwise expected to grow over time at a non-constant rate.

There are four pre-made "supplementary reports":

Report A3. Airport Activity Projections. There is one page for each airport, which shows year-by-year projections of the *Number of Annual Operations* (for 5 operations categories) and *Number of Based Aircraft* (for 3 based aircraft categories).

Report B3. Project Impacts on Airport Activity Levels. There is one page for each project, which shows year-by-year projections of the *Impact on Annual Operations* (for 5 operations categories) and *Impact on Based Aircraft* (for 3 based aircraft categories).

Report B4. Project Impacts on Airport Delay. There is one page for each project, which shows year-by-year projections of the *Aggregate Change in Air Travel Delay* and *Change in Ground Travel Time* (combining existing and shifted users, for 5 operations categories)

Report B5. Project Benefits and Costs Year-by-Year. There is one page for each project, which shows year-by-year, undiscounted, benefits and costs in detail.

ABC Airport Benefit-Cost System

V3.2

Selected: **(A3) AIRPORT ACTIVITY PROJECTIONS**

Sheboygan County Memo

Evaluated for Year
Airport Last Updated

1998
3/30/01 11:50:21 AM

Sheboygan County

Year	Total Passengers	Total Cargo Tons	Operations				Based Aircraft		
			General Aviation	Commuter	Air Taxi	Air Carrier	Single Engine	Multi Engine	Jet
1998	239,681	0	83,394	0	5,006	0	100	32	9
1999	244,662	0	85,127	0	5,110	0	101	32	9
2000	249,740	0	86,894	0	5,216	0	101	32	9
2001	254,927	0	88,699	0	5,324	0	102	33	9
2002	260,222	0	90,541	0	5,435	0	102	33	9
2003	265,626	0	92,421	0	5,548	0	103	33	9
2004	271,146	0	94,342	0	5,663	0	103	33	9
2005	276,778	0	96,301	0	5,781	0	104	33	9
2006	282,526	0	98,301	0	5,901	0	104	33	9
2007	288,393	0	100,343	0	6,023	0	105	34	9
2008	294,385	0	102,427	0	6,149	0	105	34	9
2009	300,496	0	104,554	0	6,276	0	106	34	10
2010	306,741	0	106,726	0	6,407	0	107	34	10
2011	313,112	0	108,943	0	6,540	0	107	34	10
2012	319,614	0	111,206	0	6,675	0	108	34	10
2013	326,251	0	113,515	0	6,814	0	108	35	10
2014	333,030	0	115,873	0	6,956	0	109	35	10
2015	339,943	0	118,279	0	7,100	0	109	35	10
2016	347,006	0	120,736	0	7,248	0	110	35	10
2017	354,213	0	123,244	0	7,398	0	111	35	10
2018	361,572	0	125,804	0	7,552	0	111	36	10
2019	369,082	0	128,417	0	7,709	0	112	36	10
2020	376,744	0	131,083	0	7,869	0	112	36	10
2021	384,572	0	133,807	0	8,032	0	113	36	10
2022	392,559	0	136,586	0	8,199	0	113	36	10
2023	400,710	0	139,422	0	8,369	0	114	37	10
2024	409,033	0	142,318	0	8,543	0	115	37	10
2025	417,531	0	145,274	0	8,721	0	115	37	10
2026	426,204	0	148,292	0	8,902	0	116	37	10
2027	435,054	0	151,371	0	9,087	0	116	37	10
2028	444,091	0	154,516	0	9,275	0	117	37	11
2029	453,312	0	157,724	0	9,468	0	118	38	11
2030	462,729	0	161,000	0	9,665	0	118	38	11
2031	472,337	0	164,344	0	9,865	0	119	38	11
2032	482,150	0	167,758	0	10,070	0	120	38	11
2033	492,163	0	171,242	0	10,279	0	120	38	11
2034	502,387	0	174,799	0	10,493	0	121	39	11
2035	512,823	0	178,430	0	10,711	0	122	39	11
2036	523,470	0	182,135	0	10,933	0	122	39	11

ABC Airport Benefit-Cost System

V3.2

(B3) PROJECT IMPACTS ON AIRPORT ACTIVITY LEVELS

Airport: Sheboygan County Mem Sheboygan County
 Project: Runway Extension 03-21 SBMRWYEXT
 Project Last Updated: 3/30/01 2:51:25 PM
 Run Date: 3/30/01 4:50:16 PM

Year	Chng Passengers	Chng Cargo Tons	Change in Operations				Change in Based Aircraft		
			General Aviation	Com-muter	Air Taxi	Air Carrier	Single Engine	Multi Engine	Jet
1998	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0	0	0
2006	0	0	0	0	0	0	0	0	0
2007	0	0	0	0	0	0	0	0	0
2008	3,244	0	919	0	55	0	1	0	0
2009	3,311	0	1,884	0	113	0	2	0	0
2010	3,380	0	2,899	0	174	0	4	1	0
2011	3,450	0	3,963	0	238	0	6	1	0
2012	3,521	0	5,079	0	305	0	7	2	1
2013	3,595	0	6,250	0	375	0	9	2	1
2014	3,669	0	7,477	0	449	0	10	3	1
2015	3,745	0	8,762	0	526	0	12	4	1
2016	3,823	0	10,108	0	607	0	14	4	1
2017	3,903	0	11,517	0	691	0	16	5	1
2018	3,984	0	12,990	0	780	0	17	5	1
2019	4,067	0	14,531	0	872	0	19	6	2
2020	4,151	0	16,143	0	969	0	21	6	2
2021	4,237	0	17,826	0	1,070	0	23	7	2
2022	4,325	0	19,586	0	1,175	0	25	8	2
2023	4,415	0	21,423	0	1,286	0	27	8	2
2024	4,507	0	23,341	0	1,401	0	29	9	2
2025	4,600	0	25,343	0	1,521	0	31	10	3
2026	4,696	0	27,433	0	1,647	0	34	10	3
2027	4,793	0	29,612	0	1,777	0	36	11	3
2028	4,893	0	31,885	0	1,914	0	38	12	3
2029	4,995	0	34,254	0	2,056	0	41	13	4
2030	5,098	0	36,725	0	2,204	0	43	13	4
2031	5,204	0	39,299	0	2,359	0	45	14	4
2032	5,312	0	41,981	0	2,520	0	48	15	4
2033	5,423	0	44,774	0	2,687	0	50	15	4
2034	5,535	0	47,682	0	2,862	0	53	17	5

ABC Airport Benefit-Cost System

V3.2

(B4) PROJECT IMPACTS ON AIRPORT DELAY

Airport: Sheboygan County Mem Project: Runway Extension 03-21 Run Date Project Last Updated: 3/30/01 2:51:25 PM
 Sheboygan County SBMRWYEXT 3/30/01 4:51:32 PM

Year	Total Change in Aircraft Time (minutes)				Total Change in User Ground Time (minutes)			
	General Aviation	Commuter	Air Taxi	Air Carrier	General Aviation	Commuter	Air Taxi	Air Carrier
1998	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0	0
2006	0	0	0	0	0	0	0	0
2007	0	0	0	0	0	0	0	0
2008	62,680	0	3,761	0	55,829	0	3,589	0
2009	72,620	0	4,358	0	114,453	0	7,373	0
2010	83,041	0	4,985	0	176,114	0	11,354	0
2011	93,932	0	5,640	0	240,752	0	15,530	0
2012	105,323	0	6,323	0	308,549	0	19,901	0
2013	117,241	0	7,036	0	379,688	0	24,469	0
2014	129,697	0	7,787	0	454,228	0	29,297	0
2015	142,707	0	8,567	0	532,291	0	34,322	0
2016	156,301	0	9,384	0	614,061	0	39,607	0
2017	170,499	0	10,232	0	699,657	0	45,088	0
2018	185,308	0	11,126	0	789,142	0	50,895	0
2019	200,766	0	12,050	0	882,758	0	56,898	0
2020	216,899	0	13,020	0	980,687	0	63,227	0
2021	233,714	0	14,029	0	1,082,930	0	69,818	0
2022	251,260	0	15,076	0	1,189,849	0	76,669	0
2023	269,539	0	16,180	0	1,301,447	0	83,912	0
2024	288,590	0	17,323	0	1,417,966	0	91,415	0
2025	308,439	0	18,513	0	1,539,588	0	99,245	0
2026	329,127	0	19,759	0	1,666,555	0	107,467	0
2027	350,659	0	21,044	0	1,798,929	0	115,949	0
2028	373,083	0	22,396	0	1,937,014	0	124,888	0
2029	396,418	0	23,794	0	2,080,931	0	134,154	0
2030	420,721	0	25,250	0	2,231,044	0	143,811	0
2031	446,000	0	26,772	0	2,387,414	0	153,925	0
2032	472,303	0	28,351	0	2,550,346	0	164,430	0
2033	499,657	0	29,987	0	2,720,021	0	175,327	0
2034	528,100	0	31,698	0	2,896,682	0	186,746	0
2035	557,686	0	33,476	0	3,080,694	0	198,621	0

ABC Airport Benefit-Cost System

V3.2

(B5) PROJECT BENEFITS AND COSTS BY YEAR (In \$)

Airport: Sheboygan County Mem Sheboygan County Project: Runway Extension 03-21 SBMRWYEXT Project Last Updated: 3/30/01 2:51:25 PM Run Date: 3/30/01 3:46:45 PM

Year	Cost Savings	Time Savings	Value of Public Benefits	Value of Income Growth	Addit'l Busn's Savings	Airport Revenue	Communi-ty Revenue	State Revenue	Capital Cost	Mainten-ance Cost
2001	0	0	0	0	0	0	0	0	1,423,600	0
2002	0	0	0	0	0	0	0	0	1,423,600	0
2003	0	0	0	0	0	0	0	0	1,423,600	0
2004	0	0	0	0	0	0	0	0	1,423,600	0
2005	0	0	0	0	0	0	0	0	1,423,600	0
2006	0	0	0	0	0	0	0	0	1,423,600	0
2007	0	0	0	0	0	0	0	0	1,423,600	0
2008	210,208	108,667	30,706	130,874	0	370	1,944	603	0	6,000
2009	230,097	134,548	31,343	262,882	0	740	3,907	1,230	0	6,000
2010	250,902	161,719	31,995	396,260	0	1,851	5,890	2,068	0	6,000
2011	272,590	190,149	32,659	530,671	0	2,591	7,890	2,880	0	6,000
2012	295,214	219,913	33,337	666,299	0	3,702	9,906	5,634	0	6,000
2013	318,822	251,082	34,030	803,165	0	4,442	11,938	6,501	0	6,000
2014	343,470	283,711	34,737	941,358	0	5,183	13,995	7,312	0	6,000
2015	369,138	317,811	35,458	1,080,695	0	6,293	16,065	8,287	0	6,000
2016	395,912	353,487	36,195	1,221,352	0	7,034	18,158	9,243	0	6,000
2017	423,804	390,760	36,946	1,363,218	0	8,144	20,262	10,281	0	6,000
2018	452,876	429,706	37,714	1,506,340	0	8,515	22,395	11,167	0	6,000
2019	483,132	470,364	38,497	1,650,670	0	9,995	24,536	14,272	0	6,000
2020	514,671	512,859	39,296	1,796,536	0	10,736	26,706	15,364	0	6,000
2021	547,483	557,171	40,113	1,943,452	0	11,846	28,891	16,542	0	6,000
2022	581,640	603,431	40,946	2,091,838	0	12,957	31,091	17,759	0	6,000
2023	617,219	651,704	41,796	2,241,583	0	13,697	33,323	18,966	0	6,000
2024	654,213	702,025	42,664	2,392,557	0	14,808	35,566	20,263	0	6,000
2025	692,695	754,491	43,551	2,544,867	0	16,289	37,829	23,604	0	6,000
2026	732,766	809,229	44,455	2,698,723	0	17,399	40,120	25,075	0	6,000
2027	774,369	866,201	45,378	2,853,769	0	18,510	42,419	26,505	0	6,000
2028	817,685	925,615	46,321	3,010,335	0	19,621	44,751	27,984	0	6,000
2029	862,668	987,457	47,283	3,168,191	0	21,472	47,096	31,646	0	6,000
2030	909,456	1,051,901	48,265	3,327,592	0	22,212	49,463	33,176	0	6,000
2031	958,087	1,118,997	49,267	3,488,416	0	23,323	51,858	34,808	0	6,000
2032	1,008,611	1,188,835	50,291	3,650,666	0	24,803	54,270	36,631	0	6,000
2033	1,061,071	1,261,486	51,335	3,814,270	0	25,544	56,698	38,324	0	6,000
2034	1,115,590	1,337,101	52,402	3,979,366	0	27,765	59,155	42,312	0	6,000
2035	1,172,228	1,415,791	53,490	4,146,044	0	28,876	61,633	44,261	0	6,000
2036	1,230,990	1,497,578	54,601	4,314,091	0	29,986	64,131	46,187	0	6,000
2037	1,292,058	1,582,690	55,735	4,483,740	0	31,467	66,654	48,315	0	6,000