TABLE DR1. LIST OF YEARS WITH NO DATA AVAILABLE (I.E., WITH NO MONTHLY AVERAGE).

		141	ONTHLT AVERAGE).
Lake	Abbr.	No. of Years	Periods with no data available
Ontario			
	Cape	16	1899 - 1913, 1915
	Olco	2	1998- 99
	PWel	24	1932- 55
Erie	Roch	44	1908- 34, 1936- 52
LITE	Buff	17	1870 - 1886
	Erie	2	1998- 99
	Marb	2	1998- 99
	Tole	27	1878 - 1903, 1909- 10
Huron	DeTo	40	1897- 98, 1900, 1904- 33, 1937- 43
	Lake	2	1998-99
Michigan	Luno	_	1000 00
ŭ	Holl	49	1898, 1901- 02, 1904, 1909- 34, 1936- 40,
			1943- 55, 1957- 58
	Ludi	38	1898- 99, 1901- 02, 1907, 1909- 34, 1938,
	StuB	6	1940- 43, 1948- 49 1920- 21, 1923- 24, 1926, 1998
Superior	Stub	U	1920- 21, 1923- 24, 1920, 1990
Cup cc.	Dulu	6	1974- 79
	Gran	1	1998
	Onto	1	1998
	Poin	5	1945- 49
	TwoH	48	1888- 98, 1901- 29, 1932- 34, 1936- 40

TABLE DR2. COMPARISON OF RELATIVE VERTICAL VELOCITIES AND THEIR STANDARD DEVIATION IN CM/CENTURY BETWEEN GAUGES ON LAKE ONTARIO.

	_	Coordinating Tait and Course Tuchinghore This Study. This Co												
ا Gauge	pair	Coordinating	Tait and	Carrera	Tushingham,	This Study	This Study							
		Com., 1977	Bolduc, 1985	et al, 1991	1992	Method 1	Method 3							
Burl	Cape					18.8 ± 1.8	20.0 ± 0.7							
Burl	Cobo					13.5 ± 1.2	12.3 ± 0.8							
Burl	Kngs					18.5 ± 1.7	22.5 ± 0.7							
Burl	Olco					8.9 ± 0.9	8.7 ± 0.9							
Burl	Oswe					13.9 ± 1.6	15.5 ± 0.7							
Burl	PWel					4.4 ± 0.9	5.3 ± 0.8							
Burl	Roch					13.3 ± 1.2	9.8 ± 0.7							
Burl	Toro				21.2 ± 2.0	11.2 ± 1.0	7.9 ± 0.7							
Cape	Cobo				-11.5 ± 1.9	-8.2 ± 1.5	-7.7 ± 0.4							
Cape	Kngs	5.8 ± 0.6			-4.5 ± 2.2	2.4 ± 1.1	2.5 ± 0.2							
Cape	Olco				-14.7 ± 2.6	-11.0 ± 1.4	-11.3 ± 0.6							
Cape	Oswe	-2.1 ± 0.6			-2.8 ± 0.4	-4.8 ± 1.2	-4.5 ± 0.2							
Cape	PWel				-12.2 ± 2.4	-14.9 ± 1.7	-14.7 ± 0.3							
Cape	Roch				-7.7 ± 1.1	-8.2 ± 1.3	-10.2 ± 0.2							
Cape	Toro	-11.6 ± 0.9			-11.2 ± 0.7	-12.1 ± 1.7	-12.1 ± 0.2							
Cobo	Kngs				9.1 ± 2.3	7.9 ± 1.5	10.2 ± 0.4							
Cobo	Olco				1.5 ± 2.4	-3.7 ± 0.9	-3.6 ± 0.7							
Cobo	Oswe				6.8 ± 1.6	2.9 ± 1.4	3.2 ± 0.4							
Cobo	PWel				-7.4 ± 3.1	-9.2 ± 1.0	-7.0 ± 0.5							
Cobo	Roch				3.3 ± 1.3	0.2 ± 1.1	-2.5 ± 0.4							
Cobo	Toro			-1.3 ± 1.0	-1.5 ± 1.6	-3.3 ± 1.0	-4.4 ± 0.4							
Hami	Toro			0.8 ± 6.4										
Kngs	Olco				-7.4 ± 2.6	-10.0 ± 1.2	-13.8 ± 0.6							
Kngs	Oswe	-7.9 ± 0.6	-7.6 ± 0.4	-7.5 ± 0.2	-1.2 ± 1.5	-7.4 ± 1.0	-7.0 ± 0.3							
Kngs	PWel				-19.9 ± 2.8	-15.5 ± 1.6	-17.2 ± 0.4							
Kngs	Roch				-6.0 ± 1.5	-7.7 ± 1.1	-12.7 ± 0.3							
Kngs	Toro	-17.4 ± 0.9	-16.4 ± 0.6		-8.9 ± 2.2	-14.5 ± 1.6	-14.6 ± 0.3							
Olco	Oswe				4.9 ± 1.6	5.2 ± 1.0	6.8 ± 0.6							
Olco	PWel				-6.6 ± 2.8	-5.6 ± 0.7	-3.4 ± 0.7							
Olco	Roch				4.0 ± 1.5	5.1 ± 0.7	1.1 ± 0.6							
Olco	Toro			6.6 ± 1.5	3.9 ± 1.7	3.0 ± 0.7	-0.8 ± 0.6							
Oswe	PWel				-9.5 ± 2.0	-9.9 ± 1.4	-10.2 ± 0.4							
Oswe	Roch			-3.8 ± 0.5	-6.1 ± 0.4	-5.6 ± 1.6	-5.7 ± 0.3							
Oswe	Toro	-9.4 ± 0.9	-8.8 ± 0.7	-8.5 ± 0.5	-11.3 ± 0.9	-7.2 ± 1.5	-7.6 ± 0.3							
PDal	Toro			1.3 ± 0.6										
PWel	Roch				11.6 ± 2.4	9.0 ± 1.1	4.5 ± 0.4							
PWel	Toro			-0.6 ± 0.7	-1.3 ± 2.0	2.7 ± 1.0	2.6 ± 0.4							
Roch	Toro				-5.5 ± 0.8	-3.5 ± 1.1	-1.9 ± 0.3							

TABLE DR3. COMPARISON OF RELATIVE VERTICAL VELOCITIES AND THEIR STANDARD DEVIATION IN CM/CENTURY BETWEEN GAUGES ON LAKE ERIE.

Gauge pair		Coordinating Com., 1977	Tait and Bolduc, 1985	Carrera et al, 1991	Tushingham, 1992	This Study Method 1	This Study Method 3
Barc	BarP	, 1011		J. a., 1001	.502	-8.0 ± 4.2	-14.8 ± 2.5
Barc	Buff					6.3 ± 2.0	1.3 ± 2.1
Barc	Clev					-9.1 ± 3.3 -7.3 ± 1.6	-8.5 ± 2.1 -10.8 ± 2.4
Barc Barc	Erie Erio			3.8 ± 2.1		-7.3 ± 1.6 -9.3 ± 3.4	-10.6 ± 2.4 -8.3 ± 2.4
Barc	Fair			3.0 ± 2.1		2.9 ± 2.5	-20.4 ± 3.0
Barc	Ferm					-9.7 ± 4.8	-8.3 ± 2.5
Barc	Kngv					-7.6 ± 4.2	-9.0 ± 2.4
Barc	Marb					-8.3 ± 4.6	-7.1 ± 2.4
Barc	Monr					-14.2 ± 5.1	-14.7 ± 6.3
Barc	PCol					-1.2 ± 1.8	-4.4 ± 2.2
Barc	PDov			40.00		-0.4 ± 1.5 -9.4 ± 2.4	-0.5 ± 2.4 -6.1 ± 2.2
Barc Barc	PSta StuP			4.6 ± 2.3		-9.4 ± 2.4 16.7 ± 1.9	-0.1 ± 2.2 3.4 ± 2.6
Barc	Tole					-7.8 ± 4.9	-7.3 ± 2.1
BarP	Buff				19.8 ± 5.9	18.7 ± 4.8	16.1 ± 1.4
BarP	Clev				7.0 ± 3.7	9.0 ± 2.3	6.3 ± 1.4
BarP	Erie				6.2 ± 4.9	-0.2 ± 4.1	4.0 ± 1.8
BarP	Erio				6.8 ± 4.9	7.3 ± 2.2	6.5 ± 1.8 -5.6 ± 2.6
BarP	Fair					-1.4 ± 2.8	-5.6 ± 2.6
BarP	Ferm					6.7 ± 1.7 5.6 ± 1.6	6.5 ± 1.9 5.8 ± 1.8
BarP	Kngv			2.0 ± 2.5	0.6 ± 6.0	5.6 ± 1.6	5.8 ± 1.8
BarP	Marb				6.6 ± 3.2	7.0 ± 1.9	7.7 ± 1.8
BarP BarP	Monr PCol					8.6 ± 2.3	0.1 ± 6.1
BarP	PDov				14.6 ± 5.0	13.1 ± 4.6	10.4 ± 1.5 14.3 ± 1.8
BarP	PSta				6.7 ± 3.7	14.5 ± 4.3 5.5 ± 3.6	8.7 ± 1.5
BarP	StuP				14.5 ± 7.9	19.1 ± 4.8	18.2 ± 2.1
BarP	Tole			2.7 ± 2.7	4.7 ± 3.0	4.7 ± 2.2	7.5 ± 1.5
Buff	Clev	-5.8 ± 1.2			-9.0 ± 0.5	-99 + 45	-9.8 ± 0.3
Buff	Erie				-9.0 ± 0.5 -8.8 ± 2.1	-11.5 ± 2.1	-9.8 ± 0.3 -12.1 ± 1.2
Buff	Erio				-7.2 ± 3.0	-9.5 ± 3.8	-9.6 ± 1.1
Buff	<u>F</u> air					-21.9 ± 2.9 -12.3 ± 5.3	-21.7 ± 2.2
Buff	Ferm				00.40	-12.3 ± 5.3	-9.6 ± 1.3
Buff	Kngv				-8.9 ± 4.3	-11.8 ± 4.6 -9.1 ± 4.9	-10.3 ± 1.2
Buff Buff	Marb Monr				-7.3 ± 2.7	-9.1 ± 4.9 -26.1 ± 5.5	-8.4 ± 1.2 -16.0 ± 5.9
Buff	PCol	-6.4 ± 0.9		-5.8 ± 0.4		-5.1 ± 1.3	-5.7 ± 0.5
Buff	PDov	0.4 ± 0.5		0.0 ± 0.4	-31+27	-25 + 19	-18 + 11
Buff	PSta	-0.3 ± 1.5			-3.1 ± 2.7 -0.5 ± 0.9	-6.1 ± 3.3	-7.4 ± 0.5
Buff	StuP				-0.1 ± 1.6	15 + 11	2.1 ± 1.6
Buff	Tole				-4.5 ± 1.0	-7.8 ± 5.7	-8.6 ± 0.4 -2.3 ± 1.2
Clev	Erie				-1.2 ± 1.5	-7.8 ± 5.7 -3.2 ± 3.0	-2.3 ± 1.2
Clev	Erio			00.00	-0.1 ± 2.2	0.0 ± 1.4	0.2 ± 1.1
Clev	Fair			-6.9 ± 3.6		-16.6 ± 1.4	-11.9 ± 2.2
Clev Clev	Ferm Kngv				-0.5 ± 2.8	-2.4 ± 2.6 -2.7 ± 1.9	0.2 ± 1.3 -0.5 ± 1.2
Clev	Marb			0.6 ± 1.3	0.8 ± 1.3	-2.7 ± 1.9 -0.3 ± 2.2	-0.5 ± 1.2 1 1 ± 1 2
Clev	Monr			0.0 I 1.5	0.0 1 1.5	-12.0 ± 2.9	1.4 ± 1.2 -6.2 ± 5.9
Clev	PCol	-0.6 ± 1.2	0.3 ± 0.9			3.8 ± 4.0	4.1 ± 0.6
Clev	PDov	*** = **=	*** = ***		6.2 ± 2.1	6.8 ± 3.0	8.0 ± 1.1
Clev	PSta	5.5 ± 1.5	4.9 ± 1.1	4.1 ± 0.5	6.2 ± 2.1 5.8 ± 0.9	2.4 ± 2.2	2.4 ± 0.6
Clev	StuP				102+32	8.7 ± 3.5 0.1 ± 3.1	11.9 ± 1.6
Clev	<u>T</u> ole			2.1 ± 0.7	1.8 ± 0.7	0.1 ± 3.1	11.9 ± 1.6 1.2 ± 0.5
Erie	Erio				1.0 ± 2.9	2.5 ± 2.9	2.5 ± 1.6
Erie	Fair					-5.0 ± 2.2	-9.6 ± 2.5
Erie Erie	Ferm				26 + 20	4.8 ± 4.8 3.7 ± 4.0	2.5 ± 1.8
Erie	Kngv Marb				2.6 ± 3.0 2.5 ± 2.2	3.7 ± 4.0 4.0 ± 4.3	1.8 ± 1.7 3.7 ± 1.7
Erie	Monr				Z.J I Z.Z	-2.0 ± 4.8	-3.9 ± 6.0
Erie	PCol					6.9 ± 1.9	6.4 ± 1.3
Erie	PDov				5.3 ± 2.6	9.6 ± 1.4	10.3 ± 1.6
Erie	PSta			1.1 ± 2.1	0.2 ± 2.2	1.9 ± 1.9	4.7 ± 1.3
Erie	StuP				10.7 ± 4.2	15.4 ± 1.8	14.2 ± 2.0

TABLE DR3. COMPARISON OF RELATIVE VERTICAL VELOCITIES AND THEIR STANDARD DEVIATION IN CM/CENTURY BETWEEN GAUGES ON LAKE ERIE (CONTINUED...)

Gauge pair		Coordination	BETWEEN GAUGE								
Gauge	pair	Coordinating Com., 1977	Tait and Bolduc, 1985	Carrera et al, 1991	Tushingham, 1992	This Study Method 1	This Study Method 3				
Erie	Tole				2.4 ± 2.4	1.8 ± 4.8	3.5 ± 1.3				
Erio	Fair					-14.1 ± 1.4	-12.1 ± 2.5				
Erio	Ferm				20.40	-1.7 ± 2.7	0.0 ± 1.7				
Erio Erio	Kngv Marb				2.9 ± 4.0 -0.3 ± 1.9	-1.7 ± 2.0 -0.3 ± 2.4	-0.7 ± 1.6 1.2 ± 1.6				
Erio	Monr				-0.3 ± 1.9	-4.3 ± 3.0	-6.4 ± 6.0				
Erio	PCol					5.5 ± 3.7	3.9 ± 1.2				
Erio	PDov				6.1 ± 4.4	7.3 ± 3.0	7.8 ± 1.6				
Erio	PSta			5.5 ± 2.0	2.2 ± 3.2	-0.5 ± 2.1	2.2 ± 1.2				
Erio	StuP			0.0 = 2.0	10.7 ± 4.2	10.3 ± 3.5	11.7 ± 1.9				
Erio	Tole				-0.5 ± 2.6	-2.7 ± 3.1	1.0 ± 1.2				
Fair	Ferm					14.1 ± 3.3	12.1 ± 2.6				
Fair	Kngv					10.1 ± 2.6	11.4 ± 2.5				
Fair	Marb					13.8 ± 3.0	13.3 ± 2.5				
Fair	Monr					-8.0 ± 3.7	5.7 ± 6.3				
Fair	PCol					15.8 ± 3.0	16.0 ± 2.3				
Fair	PDov					19.9 ± 2.4	19.9 ± 2.5				
Fair	PSta					12.9 ± 1.4	14.3 ± 2.3				
Fair	StuP					22.3 ± 2.9	23.8 ± 2.7				
Fair	Tole					13.0 ± 3.6	13.1 ± 2.2				
Ferm	Kngv					-0.4 ± 1.4	-0.7 ± 1.8				
Ferm	Marb					1.4 ± 1.3 -2.7 ± 1.1	1.2 ± 1.8 -6.4 ± 6.0				
Ferm Ferm	Monr PCol					-2.7 ± 1.1 6.6 ± 5.2	3.9 ± 1.4				
Ferm	PDov					7.6 ± 4.9	7.8 ± 1.7				
Ferm	PSta					-0.8 ± 4.1	2.2 ± 1.4				
Ferm	StuP					10.5 ± 5.2	11.7 ± 2.1				
Ferm	Tole			1.6 ± 1.3		-1.4 ± 1.3	1.0 ± 1.4				
Kngv	Marb				3.1 ± 2.3	1.6 ± 1.4	1.9 ± 1.7				
Kngv	Monr					5.2 ± 1.7	-5.7 ± 6.0				
Kngv	PCol					7.2 ± 4.6	4.6 ± 1.3				
Kngv	PDov				8.8 ± 3.8	8.6 ± 4.1	8.5 ± 1.6				
Kngv	PSta				-4.8 ± 3.6	-0.3 ± 3.4	2.9 ± 1.3				
Kngv	<u>S</u> tuP				11.0 ± 6.6	12.6 ± 4.5	12.4 ± 2.0				
Kngv	Tole				4.7 ± 2.6	-0.7 ± 2.1	1.7 ± 1.3				
Marb	Monr					-5.5 ± 1.5	-7.6 ± 6.0				
Marb	PCol				54.20	4.6 ± 4.9	2.7 ± 1.3				
Marb	PDov				5.4 ± 3.0	6.2 ± 4.5	6.6 ± 1.6				
Marb	PSta				-1.0 ± 2.7	-1.3 ± 3.8	1.0 ± 1.3 10.5 ± 2.0				
Marb Marb	StuP Tole				7.4 ± 3.5 0.0 ± 1.1	9.0 ± 4.9 -2.0 ± 1.8	-0.2 ± 1.3				
Monr	PCol				0.0 ± 1.1	7.2 ± 5.5	10.3 ± 5.9				
Monr	PDov					11.0 ± 5.0	14.2 ± 6.0				
Monr	PSta					6.8 ± 4.4	8.6 ± 5.9				
Monr	StuP					24.1 ± 5.3	18.1 ± 6.1				
Monr	Tole			6.6 ± 4.3		3.6 ± 1.4	7.4 ± 5.9				
PCol	PDov					1.9 ± 1.5	3.9 ± 1.2				
PCol	PSta	6.1 ±	4.6 ± 1.2	3.8 ± 0.6		-1.0 ± 2.9	-1.7 ± 0.7				
PCol	StuP			4.6 ± 2.4		4.6 ± 0.9	7.8 ± 1.7				
PCol	Tole					-2.3 ± 5.4	-2.9 ± 0.6				
PDov	PSta			-7.0 ± 2.3	-5.7 ± 3.1	-8.1 ± 1.8	-5.6 ± 1.2				
PDov	<u>S</u> tuP				8.0 ± 3.5	4.6 ± 1.4	3.9 ± 1.9				
PDov	Tole				4.7 ± 3.7	-8.5 ± 4.9	-6.8 ± 1.2				
PSta	StuP				11.4 ± 3.3	12.0 ± 2.3	9.5 ± 1.7				
PSta	Tole				-2.8 ± 1.3	-2.2 ± 4.0	-1.2 ± 0.6				
StuP	Tole				-10.3 ± 4.5	-12.2 ± 5.5	-10.7 ± 1.6				

TABLE DR4. COMPARISON OF RELATIVE VERTICAL VELOCITIES AND THEIR STANDARD DEVIATION IN CM/CENTURY BETWEEN GAUGES ON LAKE MICHIGAN-HURON.

Gauge p	air	Coordinating Com., 1977	Tait and Bolduc, 1985	Carrera et al, 1991	Tushingham, 1992	This Study Method 1	This Study Method 3
Calu	Coll DeTo3	31.7 ± 2.1	201000, 1000	ot a., 1001	29.1 ± 1.5	26.7 ± 3.9 27.0 ± 3.2	27.0 ± 1.0 27.7 ± 1.1
Calu Calu	DeTo3 Esse3				10.5 ± 2.0	8.0 ± 2.1	9.1 ± 1.1
Calu	Gode	10.4 ± 2.4			8.9 ± 1.0	8.5 ± 3.5	8.9 ± 1.0
Calu	Gree3				5.0 ± 2.3	8.5 ± 3.5 3.0 ± 2.1	4.2 ± 1.1
Calu	Harb	12.5 ± 1.8			13.2 ± 1.1	11.7 ± 2.9	10.5 ± 1.0
Calu Calu	Harr Holl				13.3 ± 3.2 3.6 ± 1.6	10.1 ± 2.9 3 2 + 1 9	18.4 ± 1.3 2.5 ± 1.1
Calu	Kewa				0.0 ± 1.0	16.1 ± 2.9 3.2 ± 1.9 -0.9 ± 1.8	1.9 ± 1.9
Calu	Lake				11.0 ± 1.9	9.6 ± 2.6 34.3 ± 3.9 -3.0 ± 2.4	10.4 ± 0.7
Calu	Litt				50.40	34.3 ± 3.9	37.4 ± 1.2
Calu Calu	Ludi Mack	201 + 21			-5.3 ± 1.8	-3.0 ± 2.4 20.5 ± 3.3	-1.8 ± 1.1 20.4 ± 1.0
Calu	Milw3	20.1 ± 2.1 -4.9 ± 1.2		-4.5 ± 0.7	22.1 ± 1.1 -2.4 ± 1.0	-5.1 ± 1.8	-4.0 ± 1.0
Calu	Parr	1.0 1 1.2		1.0 ± 0.7	29.2 ± 3.7	32.2 ± 4.0	34.7 ± 1.2
Calu	Pini				17.0 ± 3.9	16.7 ± 2.7	19.8 ± 1.3
Calu	<u>S</u> tuB	7.6 ± 1.8			10.5 ± 1.4	6.9 ± 2.3	6.6 ± 1.0
Calu	Thes	31.4 ± 2.1			29.4 ± 1.3	31.1 ± 3.4	31.2 ± 1.0
Calu Coll	Tobe DeTo3				15.3 ± 5.0	24.5 ± 3.8 3.0 ± 1.8	27.1 ± 1.2 0.7 ± 1.1
Coll	Esse3				-13.7 ± 2.1	15 1 ± 3 1	-17.9 ± 1.1
Coll	Gode	-20.4 ± 1.5	-20.6 ± 1.6	-18.9 ± 0.4	-18.7 ± 0.7	-18.2 ± 1.5 -20.2 ± 3.9 -14.5 ± 1.6	-18.1 ± 1.0
Coll	Gree3				-17.1 ± 2.2	-20.2 ± 3.9	-22.8 ± 1.1
Coll	Harb	-19.2 ± 0.6			-15.8 ± 0.4	-14.5 ± 1.6	-16.5 ± 1.0
Coll Coll	Harr Holl				-4.2 ± 2.8 -19.8 ± 3.0	-6.0 ± 1.6 -23.8 ± 3.2	-8.6 ± 1.3 -24.5 ± 1.1
Coll	Kewa				-19.0 ± 3.0	-23.0 ± 3.2	-25.1 ± 1.9
Coll	Lake				-11.7 ± 2.1	-14.0 ± 2.0	-16.6 ± 0.7
Coll	Litt					14.9 ± 1.9	10.4 ± 1.2
Coll	Ludi	44.0 . 4.0			-31.8 ± 2.0	-30.7 ± 3.0	-28.8 ± 1.1
Coll Coll	Mack	-11.3 ± 1.2 -36.3 ± 1.8			-7.2 ± 0.7 -31.4 ± 0.8	-5.9 ± 2.1 -32.4 ± 3.7	-6.6 ± 1.0
Coll	Milw3 Parr	-30.3 I 1.0		12.0 ± 1.2	12.2 ± 1.9	-32.4 ± 3.7 11.0 ± 1.1	-31.0 ± 1.0 77 + 12
Coll	Pini			12.0 ± 1.2	-0.6 ± 3.6	-3.0 ± 2.7	-6.6 ± 1.0 -31.0 ± 1.0 7.7 ± 1.2 -7.2 ± 1.3 -20.4 ± 1.0
Coll Coll	StuB	-24.1 ± 1.5			-19.1 ± 0.8	-3.0 ± 2.7 -20.8 ± 3.3	-20.4 ± 1.0
Coll	Thes	0.0 ± 0.9		1.8 ± 0.6	1.7 ± 0.7 4.3 ± 2.9	4.1 ± 1./	4.2 ± 1.0
Coll DeTo3	Tobe Esse3			4.2 ± 1.8	4.3 ± 2.9	3.4 ± 1.3 -19.3 ± 2.7	0.1 ± 1.2 -18.6 ± 1.2
De To3 DeTo3	Gode					-19.3 ± 2.7 -21.0 ± 1.9	-18.8 ± 1.1
DeTo3	Gree3					-24.3 ± 3.1	-23.5 ± 1.2
DeTo3	Harb					-24.3 ± 3.1 -15.3 ± 1.6	-23.5 ± 1.2 -17.2 ± 1.1
DeTo3	Harr					-9.9 ± 1.3	-9.3 ± 1.4 -9.3 ± 1.4 -25.2 ± 1.1 -25.8 ± 2.0 -17.3 ± 0.8 9.7 ± 1.3 -29.5 ± 1.1
DeTo3 DeTo3	Holl Kewa					-26.2 ± 2.4 -27.6 ± 2.6	-25.2 ± 1.1
DeTo3	Lake					-27.0 ± 2.0 -17.9 + 2.0	-23.0 ± 2.0 -17.3 + 0.8
DeTo3	Litt					-17.9 ± 2.0 9.9 ± 1.7 -34.2 ± 2.1	9.7 ± 1.3
DeTo3	Ludi					-34.2 ± 2.1	-29.5 ± 1.1
DeTo3	Mack					-6.1 ± 1.1	-1.3 ± 1.1
DeTo3 DeTo3	Milw3 Parr					-31.8 ± 2.9 6.5 ± 1.7	-31.7 ± 1.1 7.0 ± 1.3
De To3 DeTo3	Pini					-9.0 ± 1.5	7.0 ± 1.3 -7.9 ± 1.4
DeTo3	StuB					-22.4 ± 2.4	-21.1 ± 1.1
DeTo3	Thes			3.2 ± 0.8		2.7 ± 1.1	3.5 ± 1.1
DeTo3	Tobe				00.00	-1.4 ± 1.5	-0.6 ± 1.3
Esse3	Gode Gree3				-3.3 ± 2.9 -4.9 ± 1.4	-1.6 ± 2.9	-0.2 ± 1.1 -4.9 ± 1.3
Esse3 Esse3	Harb			1.7 ± 1.9	3.7 ± 1.3	45 + 22	1.4 ± 1.1
Esse3	Harr			1.7 2 1.0	8.4 ± 2.3	-1.6 ± 2.9 -5.0 ± 2.2 4.5 ± 2.2 10.8 ± 2.4 -6.2 ± 2.1	9.3 ± 1.4
Esse3	Holl				-7.8 ± 1.9	-6.2 ± 2.1	-6.6 ± 1.2
Esse3	Kewa				44.44	-0.5 ± 2.1	-7.2 ± 2.0
Esse3	Lake				1.1 ± 1.4	1.4 ± 1.9 30.5 ± 3.3	1.3 ± 0.9 28.3 ± 1.3
Esse3 Esse3	Litt Ludi				-16.5 ± 1.7	30.5 ± 3.3 -14.8 ± 2.4	28.3 ± 1.3 -10.9 ± 1.2
Esse3	Mack				12.7 ± 1.8	14.4 ± 2.7	11.3 ± 1.1
Esse3	Milw3				-15.3 ± 1.8	-13.5 ± 2.2	-13.1 ± 1.1
Esse3	Parr				25.8 ± 3.4	27.3 ± 3.4	25.6 ± 1.3
Esse3	PInI				10.7 ± 3.1	12.5 ± 2.5	10.7 ± 1.4
Esse3 Esse3	StuB Thes				-4.7 ± 1.6 16.7 ± 2.4	-3.4 ± 2.0 22.6 ± 2.9	-2.5 ± 1.1 22.1 ± 1.1
Esse3	Tobe				16.4 ± 4.0	20.3 ± 3.2	18.0 ± 1.3

TABLE DR4. COMPARISON OF RELATIVE VERTICAL VELOCITIES AND THEIR STANDARD DEVIATION IN CM/CENTURY BETWEEN GAUGES ON LAKE MICHIGAN-HURON (CONTINUED...).

_	_		EN GAUGES ON L	_				
Gauge pair		Coordinating Com., 1977	Tait and Bolduc, 1985	Carrera et al, 1991	Tushingham, 1992	This Study Method 1	This Study Method 3	
Gode	Gree3	•	•	,	-0.8 ± 3.5	-3.4 ± 3.8	-4.7 ± 1.1	
Gode	Harb	1.5 ± 1.2	3.7 ± 1.4	2.3 ± 0.4	2.3 ± 0.6	3.7 ± 1.4	1.6 ± 1.0	
Gode	Harr				8.6 ± 4.9	9.8 ± 1.6	9.5 ± 1.3	
Gode	Holl				-4.9 ± 3.8	-5.9 ± 2.9	-6.4 ± 1.1	
Gode	Kewa					-3.4 ± 3.2	-7.0 ± 1.9	
Gode	Lake			2.8 ± 1.6	3.8 ± 2.7	2.3 ± 1.9	1.5 ± 0.7	
Gode	Litt					30.5 ± 2.3	28.5 ± 1.2	
Gode	Ludi				-14.6 ± 2.4	-13.4 ± 2.9	-10.7 ± 1.1	
Gode	Mack	9.4 ± 1.5	11.7 ± 1.5		11.6 ± 0.7	12.4 ± 2.2	11.5 ± 1.0	
Gode	Milw3	-14.9 ± 1.8	-13.1 ± 1.6		-12.7 ± 0.9	-14.3 ± 3.3	-12.9 ± 1.0	
Gode	Parr	14.5 ± 1.0	10.1 ± 1.0		26.8 ± 3.6	27.0 ± 1.9	25.8 ± 1.2	
Gode	Pini				8.7 ± 5.8	11.9 ± 2.7	10.9 ± 1.3	
Gode	StuB	-3.0 ± 1.5			-1.4 ± 0.8	-2.6 ± 3.1	-2.3 ± 1.0	
Gode	Thes	20.7 ± 1.2	21.5 ± 1.6		20.8 ± 0.9	22.4 ± 1.9	22.3 ± 1.0	
Gode	Tobe	20.7 I 1.2	21.5 I 1.0		16.9 ± 5.8	19.0 ± 1.9	18.2 ± 1.2	
Gree3	Harb				8.1 ± 1.4	9.7 ± 3.1	6.3 ± 1.1	
	Harr				13.1 ± 1.4	15.5 ± 3.1	14.2 ± 1.4	
Gree3					-3.5 ± 1.5	-1.7 ± 2.0		
Gree3	Holl				-3.5 ± 1.5		-1.7 ± 1.2	
Gree3	Kewa				04 . 47	1.3 ± 1.7	-2.3 ± 2.0	
Gree3	Lake				6.1 ± 1.7	6.8 ± 2.9	6.2 ± 0.9	
Gree3	Litt					33.6 ± 3.8	33.2 ± 1.3	
Gree3	Ludi				-11.5 ± 1.3	-10.0 ± 2.1	-6.0 ± 1.2	
Gree3	Mack				18.0 ± 2.1	19.4 ± 3.0	16.2 ± 1.1	
Gree3	Milw3				-11.0 ± 1.7	-8.7 ± 1.8	-8.2 ± 1.1	
Gree3	Parr				29.1 ± 2.7	31.7 ± 4.1	30.5 ± 1.3	
Gree3	PInl				14.3 ± 2.8	16.0 ± 2.4	15.6 ± 1.4	
Gree3	StuB			-1.7 ± 1.7	0.0 ± 1.6	1.3 ± 1.6	2.4 ± 1.1	
Gree3	Thes				21.5 ± 2.4	27.5 ± 3.2 23.7 ± 3.8	27.0 ± 1.1	
Gree3	Tobe				17.9 ± 3.2	23.7 ± 3.8	22.9 ± 1.3	
Harb	Harr			4.7 ± 1.2	4.9 ± 1.2	5.2 ± 0.9	7.9 ± 1.3	
Harb	Holl				-11.9 ± 1.5	-8.7 ± 2.3	-8.0 ± 1.1	
Harb	Kewa					-11.0 ± 2.6	-8.6 ± 1.9	
Harb	Lake				-2.5 ± 1.1	-3.2 ± 0.9	-0.1 ± 0.7	
Harb	Litt					24.8 ± 2.0	26.9 + 1.2	
Harb	Ludi				-20.2 ± 1.1	-13.6 ± 2.6	26.9 ± 1.2 -12.3 ± 1.1	
Harb	Mack	7.6 ± 1.2			9.1 ± 0.4	8.9 ± 1.8	9.9 ± 1.0	
Harb	Milw3	-17.1 ± 1.5			-13.7 ± 0.4	-14.5 ± 2.9	-145 + 10	
Harb	Parr	17.11 ± 1.0			21.7 ± 1.8	21.9 ± 1.8	24.2 ± 1.2	
Harb	Pini				7.1 ± 2.3	6.8 ± 2.1	9.3 ± 1.3	
Harb	StuB	-5.2 ± 1.2			-3.3 ± 0.6	-53 + 25	-3 0 ± 1.0	
Harb	Thes	19.2 ± 1.2			17.5 ± 0.6	-5.3 ± 2.5 18.7 ± 1.6	-3.9 ± 1.0 20.7 ± 1.0	
Harb	Tobe	10.2 ± 1.2			11.2 ± 2.6	14.2 ± 1.6	16.6 ± 1.2	
Harr	Holl				-16.1 ± 2.1	-17.0 ± 2.3	-15.9 ± 1.4	
Harr	Kewa				-10.1 ± 2.1	-17.0 ± 2.3 -15.9 ± 2.6	-16.5 ± 1.4	
Harr	Lake				60 + 22	-13.5 ± 2.0	-8.0 ± 1.1	
					-6.8 ± 2.3	-8.1 ± 1.4	19.0 ± 1.1	
Harr	Litt				-21.0 ± 2.1	17.7 ± 1.7 -23.2 ± 2.2	19.0 ± 1.5	
Harr	Ludi					-23.2 ± 2.2	-20.2 ± 1.4	
Harr	Mack				6.9 ± 2.2	5.9 ± 1.5	2.0 ± 1.3	
Harr	Milw3				-19.2 ± 2.8 17.5 ± 2.3	-21.7 ± 2.8	-22.4 ± 1.3	
Harr	Parr				17.5 ± 2.3	17.6 ± 1.7	16.3 ± 1.5	
Harr	PInI				2.6 ± 2.6	1.4 ± 1.9	1.4 ± 1.6	
Harr	<u>S</u> tuB				-10.0 ± 2.1	-11.9 ± 2.4	-11.8 ± 1.3	
Harr	Thes				11.3 ± 3.4	13.6 ± 1.5	12.8 ± 1.3	
Harr	Tobe				6.6 ± 2.9	8.8 ± 1.6	8.7 ± 1.5	
Holl	Kewa					-0.4 ± 1.4	-0.6 ± 2.0	
Holl	Lake				10.3 ± 1.7	8.1 ± 2.3	7.9 ± 0.8	
Holl	Litt					355 + 32	34.9 ± 1.3	
Holl	Ludi				-5.5 ± 1.4 24.7 ± 2.4	-3.2 ± 1.5	-4.3 ± 1.1	
Holl	Mack				24.7 ± 2.4	18.1 ± 2.4	17.9 ± 1.1	
Holl	Milw3			-14.7 ± 1.3	-2.8 ± 1.4	-7.3 ± 1.6	-6.5 ± 1.1	
Holl	Parr				32.8 ± 2.8	33.1 ± 3.4	-6.5 ± 1.1 32.2 ± 1.3	
Holl	Pini				19.1 ± 2.6	18.2 ± 1.9	17.3 ± 1.4	
Holl	StuB				5.8 ± 1.4	4.2 ± 1.4	4.1 ± 1.1	
Holl	Thes				26.5 ± 2.9	30.2 ± 2.5	28.7 ± 1.1	
11011	Tobe				20.3 ± 2.9 21.3 ± 3.7	25.5 ± 3.0	24.6 ± 1.3	

TABLE DR4. COMPARISON OF RELATIVE VERTICAL VELOCITIES AND THEIR STANDARD DEVIATION IN CM/CENTURY BETWEEN GAUGES ON LAKE MICHIGAN-HURON (CONTINUED).

Gauge pair		Coordinating Com., 1977	Tait and Bolduc, 1985	Tushingham, 1992	This Study Method 1	This Study Method 3	
Kewa	Lake		Bolado, 1000	et al, 1991	1002	6.9 ± 2.5	8.5 ± 1.8
Kewa	Litt					31.0 ± 3.4	35.5 ± 2.1
Kewa	Ludi					-5.2 ± 1.5	-3.7 ± 2.0
Kewa	Mack					20.1 ± 2.4	18.5 ± 1.9
Kewa	Milw3					-8.1 ± 1.3	-5.9 ± 1.9
Kewa	Parr					31.7 ± 3.7	32.8 ± 2.1
Kewa	Pini					17.0 ± 1.9	17.9 ± 2.1
Kewa	StuB			14.5 ± 3.3		4.9 ± 1.0	4.7 ± 1.9
Kewa	Thes					34.1 ± 2.8	29.3 ± 1.9
Kewa	Tobe					32.0 ± 3.5	25.2 ± 2.1
Lake	Litt					28.2 ± 2.5	27.0 ± 1.0
Lake	Ludi				-17.1 ± 1.9	-16.2 ± 2.4	-12.2 ± 0.8
Lake	Mack				12.9 ± 2.0	13.9 ± 2.2	10.0 ± 0.7
Lake	Milw3				-16.2 ± 1.8	-14.9 ± 2.5	-14.4 ± 0.7
Lake	Parr				22.8 ± 2.5	24.9 ± 2.3	24.3 ± 1.0
Lake	Pini				9.9 ± 3.1	10.6 ± 2.3	9.4 ± 1.1
Lake	StuB				-5.7 ± 1.6	-5.0 ± 2.4	-3.8 ± 0.7
Lake	Thes				16.4 ± 2.8	21.5 ± 2.2	20.8 ± 0.7
Lake	Tobe				11.7 ± 3.9	16.5 ± 2.2	16.7 ± 1.0
Litt	Ludi				11.7 ± 3.9	-41.6 ± 3.0	-39.2 ± 1.3
Litt	Mack					-41.0 ± 3.0 -13.3 ± 1.8	-17.0 ± 1.2
						-13.3 I 1.0	-17.0 ± 1.2 -41.4 ± 1.2
Litt	Milw3					-39.3 ± 3.7 -3.2 ± 1.6	
Litt	Parr					-3.2 ± 1.0	-2.7 ± 1.4
Litt	PInI					-14.4 ± 2.3	-17.6 ± 1.5
Litt	StuB			00.4 + 0.4		-30.5 ± 3.3	-30.8 ± 1.2
Litt	Thes			-20.4 ± 2.4		-4.4 ± 1.7	-6.2 ± 1.2
Litt	Tobe				004.44	-8.2 ± 1.5	-10.3 ± 1.4
Ludi	Mack			00.45	29.1 ± 1.4	23.7 ± 2.3	22.2 ± 1.1
Ludi	Milw3			-2.6 ± 1.5	0.9 ± 1.5	-3.6 ± 2.1	-2.2 ± 1.1
Ludi	Parr				38.7 ± 2.3	39.2 ± 3.2	36.5 ± 1.3
Ludi	PInl				22.0 ± 1.6	23.0 ± 1.4	21.6 ± 1.4
Ludi	StuB			11.6 ± 0.7	11.5 ± 0.9	10.3 ± 1.4	8.4 ± 1.1
Ludi	Thes				34.2 ± 1.5	37.1 ± 2.2	33.0 ± 1.1
Ludi	Tobe				28.4 ± 2.9	31.1 ± 2.9	28.9 ± 1.3
Mack	Milw3	-24.7 ± 1.5			-24.2 ± 0.6	-25.3 ± 2.9	-24.4 ± 1.0
Mack	Parr				8.2 ± 2.7	10.0 ± 2.0	14.3 ± 1.2
Mack	PInI			-6.8 ± 1.8	-4.3 ± 2.1	-4.3 ± 1.4	-0.6 ± 1.3
Mack	StuB	-12.8 ± 1.2		-13.9 ± 0.6	-12.0 ± 0.6	-14.0 ± 2.5	-13.8 ± 1.0
Mack	Thes	11.6 ± 1.2		9.2 ± 0.5	9.4 ± 0.8	10.1 ± 1.3	10.8 ± 1.0
Mack	Tobe				2.6 ± 3.6	3.1 ± 1.8	6.7 ± 1.2
Milw3	Parr				35.3 ± 3.6	37.2 ± 3.9	38.7 ± 1.2
Milw3	PInI				23.2 ± 3.4	22.9 ± 2.2	23.8 ± 1.3
Milw3	StuB	12.2 ± 1.2			12.5 ± 0.5	11.8 ± 1.7	10.6 ± 1.0
Milw3	Thes	36.0 ± 1.5			34.5 ± 1.1	36.8 ± 3.0	35.2 ± 1.0
Milw3	Tobe				22.8 ± 4.6	30.2 ± 3.6	31.1 ± 1.2
Parr	Pini				-15.1 ± 2.7	-14.3 ± 2.6	-14.9 ± 1.5
Parr	StuB				-27.2 ± 2.5	-28.0 ± 3.5	-28.1 ± 1.2
Parr	Thes				-4.2 ± 2.2	-2.4 ± 1.7	-3.5 ± 1.2
Parr	Tobe				-10.1 ± 3.2	-8.5 ± 1.3	-7.6 ± 1.4
Pini	StuB				-14.9 ± 1.8	-13.1 ± 1.6	-13.2 ± 1.3
Pini	Thes				10.2 ± 2.9	13.2 ± 1.7	11.4 ± 1.3
Pini	Tobe				9.0 ± 3.7	7.8 ± 2.4	7.3 ± 1.5
StuB	Thes	24.4 ± 1.2			23.7 ± 0.8	25.0 ± 2.6	24.6 ± 1.0
StuB	Tobe	27.7 ± 1.2			16.2 ± 3.9	20.1 ± 3.2	20.5 ± 1.2
Thes	Tobe				-2.6 ± 2.9	-5.5 ± 1.4	-4.1 ± 1.2

TABLE DR5. COMPARISON OF RELATIVE VERTICAL VELOCITIES AND THEIR STANDARD DEVIATION IN CM/CENTURY BETWEEN GAUGES ON LAKE SUPERIOR.

				AUGES ON LAKE			
Gauge p	oair	Coordinating Com., 1977	Tait and Bolduc, 1985	Carrera et al, 1991	Tushingham, 1992	This Study Method 1	This Study Method 3
Dulu	Gran				22.3 ± 1.2	19.4 ± 1.2	17.7 ± 0.9
Dulu	Gros				29.5 ± 4.1	28.6 ± 2.5	26.9 ± 0.8
Dulu	Marq3	11.3 ± 0.9			11.7 ± 0.4	13.1 ± 2.5	13.1 ± 0.4
Dulu	Mich	52.1 ± 1.5	50.9 ± 1.0		47.1 ± 0.9	50.2 ± 2.5	48.6 ± 0.4
Dulu	Onto				8.0 ± 1.9	8.5 ± 1.8	6.6 ± 0.8
Dulu	Poin	23.5 ± 1.2			25.8 ± 0.8	26.9 ± 2.6	25.3 ± 0.3
Dulu	Ross					55.1 ± 2.2	52.8 ± 0.9
Dulu	Thun	29.0 ± 1.2	29.9 ± 0.9	30.8 ± 0.4	29.9 ± 0.6	29.4 ± 1.5	27.7 ± 0.4
Dulu	TwoH			5.9 ± 0.5		4.9 ± 0.9	4.1 ± 0.6
Gran	Gros				9.5 ± 14	7.2 ± 1.8	9.2 ± 1.1
Gran	Marg3				-2.7 ± 1.8	-0.7 ± 1.3	-4.6 ± 0.9
Gran	Mich				22.5 ± 2.8	29.6 ± 1.8	30.9 ± 0.9
Gran	Onto				-15.0 ± 2.5	-12.1 ± 1.3	-11.1 ± 1.1
Gran	Poin				9.6 ± 2.0	9.0 ± 1.8	7.6 ± 0.8
Gran	Ross					35.0 ± 1.8	35.1 ± 1.1
Gran	Thun			15.3 ± 2.2	15.3 ± 3.5	10.0 + 1.2	10.0 ± 0.9
Gran	TwoH			10.0 = 2.2		10.0 ± 1.2 -11.9 ± 0.8	-13.6 ± 0.9
Gros	Marg3				-14.4 ± 4.0	-10.7 ± 1.4	-13.8 ± 0.8
Gros	Mich				17.1 ± 4.2	18.9 ± 1.4	21.7 ± 0.8
Gros	Onto				-20.5 ± 11.0	-20.7 ± 2.0	-20.3 ± 1.0
Gros	Poin			3.4 ± 4.0	3.4 ± 9.7	-0.2 ± 1.2	-1.6 ± 0.7
Gros	Ross			0.1 2 1.0	0.1 ± 0.1	27.2 ± 2.0	25.9 ± 1.1
Gros	Thun				0.6 ± 5.1	0.2 ± 2.1	0.8 ± 0.8
Gros	TwoH				0.0 ± 0.1	-21.4 ± 2.3	-22.8 ± 0.9
Marg3	Mich	40.8 ± 0.9	39.4 ± 0.8	35.4 ± 0.5	33.7 ± 0.8	33.9 ± 1.3	35.5 ± 0.4
Marq3	Onto	10.0 ± 0.0	00.1 ± 0.0	-7.5 ± 2.1	-12.4 ± 1.8	-9.4 ± 1.5	-6.5 ± 0.8
Marg3	Poin	12.2 ± 0.6		7.0 1 1.1	11.1 ± 0.5	10.6 ± 1.1	12.2 ± 0.3
Marg3	Ross	12.2 2 0.0			11.1 = 0.0	35.7 ± 1.9	39.7 ± 0.9
Marq3	Thun	17.7 ± 1.2	17.5 ± 1.1	18.7 ± 0.5	16.9 ± 0.6	13.0 ± 1.8	14.6 ± 0.4
Marg3	TwoH	17.7 2 1.2	17.0 ± 1.1	10.1 ± 0.0	10.0 ± 0.0	-9.0 ± 1.8	-9.0 ± 0.6
Mich	Onto				-36.7 ± 2.7	-39.1 ± 1.7	-42.0 ± 0.8
Mich	Poin	-29.0 ± 0.9		-25.4 ± 0.5	-25.3 ± 0.8	-23.3 ± 1.3	-23.3 ± 0.3
Mich	Ross	20.0 ± 0.0		20.7 1 0.0	20.0 1 0.0	5.7 ± 2.0	4.2 ± 0.9
Mich	Thun	-23.2 ± 1.5	-21.0 ± 1.2		-17.3 ± 1.0	-20.9 ± 2.0	-20.9 ± 0.4
Mich	TwoH	-20.2 I 1.0	-Z1.0 1 1.2		-17.5 I 1.0	-45.0 ± 2.3	-44.5 ± 0.6
Onto	Poin	23.5 ± 1.2			20.5 ± 2.0	19.2 ± 1.8	18.7 ± 0.7
Onto	Ross	20.0 1 1.2			20.5 I 2.0	46.3 ± 2.0	46.2 ± 1.1
Onto	Thun				26.8 ± 2.5	21.1 ± 1.5	21.1 ± 0.8
Onto	TwoH				20.0 I 2.3	1.2 ± 1.7	-2.5 ± 0.9
Poin	Ross					25.8 ± 2.1	27.5 ± 0.8
Poin	Thun	5.8 ± 1.2			5.8 ± 0.9	2.5 ± 2.1	27.3 ± 0.8 2.4 ± 0.3
Poin	TwoH	J.U I 1.Z			J.U I U.9	-20.5 ± 2.2	-21.2 ± 0.5
Ross				-27.4 ± 3.2		-20.5 ± 2.5 -24.9 ± 1.7	-21.2 ± 0.5 -25.1 ± 0.9
	Thun TwoH			-21.4 ± 3.2		-24.9 ± 1.7 -57.7 ± 2.2	
Ross	TwoH						-48.7 ± 0.9
Thun	i won					-23.8 ± 1.4	-23.6 ± 0.6

TABLE DR6 - COUNT OF OUTLIERS (MONTHLY LAKE LEVEL AVERAGES REJECTED DURING THIS STUDY) PER MONTH AND PER SITE FOR EACH

LAKE															
Gauge	Jan	Fev	Mar	Apr	Ma y	Jun	Ju.	Au g	Se p	Oct	Nov	Dec	Total	# of meas.	% of outliers
Lake O Burl Cape Cobo Kngs Olco Oswe PWel Roch Toro Total	2 7 2 3 0 9 0 4 7 34	0 7 1 1 0 8 1 7 3 28	0 6 3 2 1 11 0 9 3 35	1 4 1 2 0 13 1 12 4 38	0 1 1 2 0 4 1 3 0 12	2 0 0 0 0 2 0 2 0 6	0 3 1 0 0 4 0 4 0 12	0 4 0 0 0 2 3 2 2 13	0 1 1 0 2 1 2 3 11	1 3 1 1 0 5 0 5 2 18	3 2 1 2 0 8 3 8 2 29	1 9 1 2 0 9 1 8 2 33	10 47 13 16 1 77 11 66 28 269	349 997 531 1019 377 1692 567 1143 1018	3% 5% 2% 2% 0% 5% 2% 6% 3%
Lake E Barc BarP Buff Clev Erie Frair Ferm Kngv Marb Monr PCol PDov StuP Tole Total	6 0 23 5 5 0 0 4 0 5 0 16 7 1 13 25 110	1 0 2 2 1 0 0 2 0 0 0 1 0 0 1 5 2 4	0 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 5	0 0 1 0 0 0 0 1 0 0 2 0 0 8 13	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000011	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2 5 0 0 0 1 0 1 2 1 0 0 1 1 1 2 4	3 4 33 10 4 0 0 6 2 4 2 15 3 1 11 50 148	5 5 37 9 8 1 0 6 5 8 3 19 9 0 14 44 173	16 11 104 26 18 1 0 20 7 19 7 51 24 2 39 171 516	306 411 1434 1692 475 510 304 447 456 465 157 900 490 484 383 1085	5% 3% 7% 2% 4% 0% 4% 4% 4% 6% 5% 10% 16%
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