

2003-2004 STATE SUMMARY

Gallaudet Research Institute * 800 Florida Avenue, NE * Washington, DC 20002

202-651-5575 * 1-800-451-8834 ext 5575

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AGE	Michigan		Midwest		Nation	
	N	%	N	%	N	%
Total students	1863	100.0	9973	100.0	38744	100.0
Information NOT reported	46	2.5	211	2.1	748	1.9
Total known information	1817	100.0	9762	100.0	37996	100.0
Under 3 years	30	1.7	95	1.0	566	1.5
From 3 to 5 years	93	5.1	547	5.6	2490	6.6
From 6 to 9 years	414	22.8	1950	20.0	7283	19.2
From 10 to 13 years	555	30.5	2846	29.2	10634	28.0
From 14 to 17 years	482	26.5	2857	29.3	11036	29.0
18 years and older	243	13.4	1467	15.0	5987	15.8
SEX						
Total students	1863	100.0	9973	100.0	38744	100.0
Information NOT reported	29	1.6	84	0.8	239	0.6
Total known information	1834	100.0	9889	100.0	38505	100.0
Male	1044	56.9	5453	55.1	20935	54.4
Female	790	43.1	4436	44.9	17570	45.6
RACE/ETHNIC BACKGROUND						
Total students	1863	100.0	9973	100.0	38744	100.0
Information NOT reported	43	2.3	119	1.2	595	1.5
Total known information	1820	100.0	9854	100.0	38149	100.0
White	1439	79.1	6490	65.9	19640	51.5
Black/African-American	171	9.4	1474	15.0	5880	15.4
Hispanic/Latino	63	3.5	1015	10.3	9226	24.2
American Indian/Alaska Native	3	0.2	46	0.5	329	0.9
Asian/Pacific Islander	41	2.3	390	4.0	1567	4.1
Other	75	4.1	228	2.3	688	1.8
Multi-ethnic background indicated	28	1.5	211	2.1	819	2.1

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AGE AT ONSET OF HEARING LOSS	Michigan		Midwest		Nation	
	N	%	N	%	N	%
Total students	1863	100.0	9973	100.0	38744	100.0
Information NOT reported	100	5.4	355	3.6	1412	3.6
Total known information	1763	100.0	9618	100.0	37332	100.0
At birth	638	36.2	3663	38.1	15644	41.9
Under 3 years	259	14.7	1690	17.6	7158	19.2
3 years or older	108	6.1	607	6.3	2120	5.7
Unknown	758	43.0	3658	38.0	12410	33.2
ETIOLOGY **						
Total students	1863	100.0	9973	100.0	38744	100.0
Information NOT reported	85	4.6	373	3.7	1618	4.2
Total Known Information	1778	100.0	9600	100.0	37126	100.0
Genetic/Hereditary/Familial	353	19.9	2085	21.7	8087	21.8
Pregnancy Related						
Maternal rubella	6	0.3	34	0.4	246	0.7
Cytomegalovirus (CMV)	18	1.0	134	1.4	629	1.7
Maternal drug/alcohol abuse	7	0.4	76	0.8	260	0.7
Medications taken by mother	1	0.1	28	0.3	109	0.3
Rh incompatibility	3	0.2	21	0.2	97	0.3
Consequence of prematurity	64	3.6	353	3.7	1523	4.1
Trauma at birth	13	0.7	74	0.8	296	0.8
Other complications of pregnancy	53	3.0	324	3.4	1418	3.8
Post-Birth Disease/Injury						
Otitis media	242	13.6	717	7.5	1851	5.0
Meningitis	32	1.8	330	3.4	1483	4.0
Other infections	10	0.6	90	0.9	478	1.3
Medications taken by child	20	1.1	160	1.7	577	1.6
Trauma after birth	6	0.3	73	0.8	276	0.7
Other post-birth cause	48	2.7	340	3.5	1265	3.4
Cause cannot be determined/DNA	954	53.7	5099	53.1	19945	53.7

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PARENTAL HEARING STATUS	Michigan		Midwest		Nation	
	N	%	N	%	N	%
Total students	1863	100.0	9973	100.0	38744	100.0
Information NOT reported	216	11.6	820	8.2	3033	7.8
Total known info., Either Parent	1647	100.0	9153	100.0	35711	100.0
Mother's status: Hearing	1537	93.3	8407	91.8	32944	92.3
Hard of hearing	65	3.9	347	3.8	1015	2.8
Deaf	37	2.2	369	4.0	1614	4.5
Unknown	8	0.5	30	0.3	138	0.4
Father's status: Hearing	1396	84.8	7805	85.3	30811	86.3
Hard of hearing	50	3.0	247	2.7	727	2.0
Deaf	27	1.6	324	3.5	1413	4.0
Unknown	174	10.6	777	8.5	2760	7.7
Both parents hearing	1335	81.1	7511	82.1	29811	83.5
Both parents deaf or hard of hearing	29	1.8	345	3.8	1447	4.1
One parent deaf/hh; other hearing	101	6.1	490	5.4	1555	4.4
One parent deaf/hh; other unknown	20	1.2	107	1.2	320	0.9
One parent hearing; other unknown	162	9.8	700	7.6	2578	7.2
HAS DEAF OR HARD OF HEARING SIBLINGS						
Total students	1863	100.0	9973	100.0	38744	100.0
Information NOT reported	164	8.8	493	4.9	2217	5.7
Total known information	1699	100.0	9480	100.0	36527	100.0
Has deaf or hard of hearing siblings	227	13.4	1324	14.0	4859	13.3
Has no deaf or hard of hearing siblings	1254	73.8	7356	77.6	28662	78.5
Data Not Available	218	12.8	800	8.4	3006	8.2

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UNAIDED AUDIOMETRIC THRESHOLDS MEASUREMENT	Michigan		Midwest		Nation	
	N	%	N	%	N	%
Total students	1863	100.0	9973	100.0	38744	100.0
Information NOT reported	342	18.4	1902	19.1	7982	20.6
Total known information	1521	100.0	8071	100.0	30762	100.0
Earphone (preferred measurement)	1323	87.0	7174	88.9	27211	88.5
Sound field	198	13.0	897	11.1	3551	11.5
DEGREE OF HEARING LOSS						
	Michigan		Midwest		Nation	
	N	%	N	%	N	%
Total students	1863	100.0	9973	100.0	38744	100.0
Information NOT reported	167	9.0	1170	11.7	5146	13.3
Total known information	1696	100.0	8803	100.0	33598	100.0
Normal (< 27 dB, ANSI)	507	29.9	1963	22.3	5630	16.8
Mild (27-40 dB, ANSI)	291	17.2	1361	15.5	4134	12.3
Moderate (41-55 dB, ANSI)	263	15.5	1320	15.0	4439	13.2
Mod-severe (56-70 dB, ANSI)	184	10.8	1052	12.0	4150	12.4
Severe (71-90 dB, ANSI)	212	12.5	1155	13.1	5109	15.2
Profound (91 dB and above, ANSI)	239	14.1	1952	22.2	10136	30.2
COCHLEAR IMPLANT						
	Michigan		Midwest		Nation	
	N	%	N	%	N	%
Total students	1863	100.0	9973	100.0	38744	100.0
Information NOT reported	68	3.7	357	3.6	1591	4.1
Total known information	1795	100.0	9616	100.0	37153	100.0
Have not had a cochlear implant	1603	89.3	8636	89.8	33578	90.4
Have had a cochlear implant	192	10.7	980	10.2	3575	9.6
Implant Use						
Total students	192	100.0	980	100.0	3575	100.0
Information NOT reported	9	4.7	41	4.2	160	4.5
Total known information	183	100.0	939	100.0	3415	100.0
Implant still used	176	96.2	856	91.2	3118	91.3
Implant no longer used	7	3.8	83	8.8	297	8.7

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COCHLEAR IMPLANT USE IN CLASSROOM	Michigan		Midwest		Nation	
	N	%	N	%	N	%
Total students	192	100.0	980	100.0	3575	100.0
Information NOT reported	81	42.2	344	35.1	1130	31.6
Total known information	111	100.0	636	100.0	2445	100.0
Implant used in classroom	109	98.2	573	90.1	2194	89.7
Implant not used in classroom	2	1.8	63	9.9	251	10.3
FUNCTIONAL HEARING ABILITY	Michigan		Midwest		Nation	
	N	%	N	%	N	%
Total students	1863	100.0	9973	100.0	38744	100.0
Information NOT reported	73	3.9	399	4.0	1488	3.8
Total known information	1790	100.0	9574	100.0	37256	100.0
Functions normally	441	24.6	1566	16.4	4808	12.9
Mildly limited	808	45.1	4048	42.3	14113	37.9
+ Moderately limited	154	8.6	709	7.4	1995	5.4
Severely limited	309	17.3	2296	24.0	11523	30.9
No functional hearing	78	4.4	955	10.0	4817	12.9
HEARING AID USE FOR INSTRUCTION	Michigan		Midwest		Nation	
	N	%	N	%	N	%
Total students	1863	100.0	9973	100.0	38744	100.0
Information NOT reported	41	2.2	242	2.4	1128	2.9
Total known information	1822	100.0	9731	100.0	37616	100.0
Hearing aid used for instruction	956	52.5	5762	59.2	22568	60.0
Hearing aid not used for instruction	866	47.5	3969	40.8	15048	40.0
GROUP ASSISTIVE LISTENING DEVICE(ALD)USE	Michigan		Midwest		Nation	
	N	%	N	%	N	%
Total students	1863	100.0	9973	100.0	38744	100.0
Information NOT reported	180	9.7	678	6.8	2758	7.1
Total known information	1683	100.0	9295	100.0	35986	100.0
Group ALD used for instruction	1067	63.4	4116	44.3	14441	40.1
Group ALD not used for instruction	616	36.6	5179	55.7	21545	59.9

+ "Moderately limited" is a new, added response for the functional hearing ability question in the 2003-04 Annual Survey. This response is not included in the data reported to the 2003-04 Texas State Survey.

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SPOKEN/WRITTEN LANGUAGES IN THE HOME	Michigan		Midwest		Nation	
	N	%	N	%	N	%
Total students	1863	100.0	9973	100.0	38744	100.0
Information NOT reported	47	2.5	224	2.2	1098	2.8
Total known information	1816	100.0	9749	100.0	37646	100.0
English	1669	91.9	8361	85.8	28724	76.3
Spanish	15	0.8	463	4.7	4409	11.7
Other	52	2.9	322	3.3	980	2.6
Multiple languages	80	4.4	603	6.2	3533	9.4
SIGN USE IN THE HOME						
	N	%	N	%	N	%
Total students	1863	100.0	9973	100.0	38744	100.0
Information NOT reported	83	4.5	446	4.5	1902	4.9
Total known information	1780	100.0	9527	100.0	36842	100.0
Family members regularly sign	249	14.0	2284	24.0	9921	26.9
Family members do not regularly sign	1494	83.9	6889	72.3	25415	69.0
Data not available	37	2.1	354	3.7	1506	4.1
COMMUNICATION MODE PRIMARILY USED IN TEACHING						
	N	%	N	%	N	%
Total students	1863	100.0	9973	100.0	38744	100.0
Information NOT reported	23	1.2	78	0.8	394	1.0
Total known information	1840	100.0	9895	100.0	38350	100.0
Speech only	1464	79.6	5511	55.7	18120	47.2
Sign and speech	332	18.0	3617	36.6	15460	40.3
Sign only	30	1.6	655	6.6	4175	10.9
Cued Speech	0	0.0	29	0.3	117	0.3
Other	14	0.8	83	0.8	478	1.2

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INSTRUCTIONAL SETTINGS **	Michigan		Midwest		Nation	
	N	%	N	%	N	%
Total students	1863	100.0	9973	100.0	38744	100.0
Information NOT reported	29	1.6	115	1.2	567	1.5
Total known information	1834	100.0	9858	100.0	38177	100.0
Special school or center	129	7.0	1712	17.4	10354	27.1
Self-contained clrm in req. ed. setting	751	40.9	3335	33.8	11854	31.1
Resource room	282	15.4	1537	15.6	5290	13.9
Regular education setting	1132	61.7	5073	51.5	17573	46.0
Home	63	3.4	193	2.0	1156	3.0
Other	34	1.9	384	3.9	1729	4.5
HRS/WK INTEGRATED W/HEARING STUDENTS						
	Michigan		Midwest		Nation	
	N	%	N	%	N	%
Total students	1863	100.0	9973	100.0	38744	100.0
Information NOT reported	55	3.0	217	2.2	903	2.3
Total known information	1808	100.0	9756	100.0	37841	100.0
None	393	21.7	3040	31.2	13994	37.0
1 to 5 hours/week	178	9.8	938	9.6	4000	10.6
6 to 15 hours/week	302	16.7	1160	11.9	4226	11.2
16 to 25 hours/week	323	17.9	1133	11.6	3847	10.2
26 or more hours/week	612	33.8	3485	35.7	11774	31.1

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SUPPORT SERVICES RECEIVED **	Michigan		Midwest		Nation	
	N	%	N	%	N	%
Total students	1863	100.0	9973	100.0	38744	100.0
Information NOT reported	62	3.3	182	1.8	817	2.1
Total known information	1801	100.0	9791	100.0	37927	100.0
No support services	92	5.1	465	4.7	2179	5.7
Oral interpreting	13	0.7	93	0.9	381	1.0
Sign interpreting	246	13.7	2277	23.3	8749	23.1
Cued speech transliteration	0	0.0	29	0.3	126	0.3
Tutoring	88	4.9	541	5.5	2667	7.0
Speech training/therapy	1031	57.2	5800	59.2	22973	60.6
Notetaking	59	3.3	381	3.9	1636	4.3
Real-time captioning	5	0.3	116	1.2	411	1.1
Counseling	144	8.0	1190	12.2	4229	11.2
Itinerant teacher services	866	48.1	4219	43.1	13691	36.1
Classroom inst. ass't/aide services	162	9.0	1339	13.7	6755	17.8
Auditory training	292	16.2	1949	19.9	9991	26.3
Occupational/Physical Therapy (OT/PT)	122	6.8	907	9.3	3350	8.8
Other	148	8.2	1253	12.8	5129	13.5
ADDIT. CONDITIONS OTHER THAN DEAFNESS**						
Total students	1863	100.0	9973	100.0	38744	100.0
Information NOT reported	172	9.2	667	6.7	2585	6.7
Total known information	1691	100.0	9306	100.0	36159	100.0
No condition in addition to deafness	1081	63.9	5571	59.9	21860	60.5
Low vision	47	2.8	278	3.0	1134	3.1
Legal blindness	22	1.3	115	1.2	517	1.4
Learning disability	135	8.0	1031	11.1	3621	10.0
Mental retardation	171	10.1	969	10.4	3288	9.1
Attention Deficit Disorder	117	6.9	744	8.0	2388	6.6
Emotional disturbance	31	1.8	191	2.1	714	2.0
Cerebral palsy	43	2.5	268	2.9	1153	3.2
Other conditions	172	10.2	1061	11.4	4818	13.3

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FUNCTIONAL ASSESSMENT **	Michigan		Midwest		Nation	
	N	%	N	%	N	%
Total students	1863	100.0	9973	100.0	38744	100.0
Information NOT reported	109	5.9	383	3.8	1791	4.6
Total known information	1754	100.0	9590	100.0	36953	100.0
No functional limitations	497	28.3	2959	30.9	11268	30.5
1 or more functional limitation	1257	71.7	6631	69.1	25685	69.5
*Vision	220	12.5	1143	11.9	4623	12.5
*Thinking/reasoning	599	34.2	3328	34.7	12788	34.6
*Maintaining attention to classroom tasks	684	39.0	3801	39.6	14372	38.9
*Expressive communication	903	51.5	4805	50.1	19456	52.7
*Receptive communication	957	54.6	4931	51.4	19674	53.2
*Social interaction/classroom behavior	548	31.2	3014	31.4	11385	30.8
*Use of hands, arms, and legs	221	12.6	1213	12.6	4587	12.4
*Balance	145	8.3	927	9.7	3836	10.4
*Overall physical health	183	10.4	1049	10.9	4142	11.2

** Percent may total more than 100.0 because multiple responses were allowed

* Note: Percents are based on total known information.

For example, 12,788 (34.6%) of the students were reported to have some level of functional limitation (mild to moderate or severe to profound) in their thinking/reasoning skills - when compared to non-disabled hearing children.

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