

## 2003-2004 STATE SUMMARY

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

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

Page 1 of 9

AGE	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	138	100.0	9973	100.0	38744	100.0
Information NOT reported	0	0.0	211	2.1	748	1.9
Total known information	138	100.0	9762	100.0	37996	100.0
Under 3 years	0	0.0	95	1.0	566	1.5
From 3 to 5 years	1	0.7	547	5.6	2490	6.6
From 6 to 9 years	29	21.0	1950	20.0	7283	19.2
From 10 to 13 years	33	23.9	2846	29.2	10634	28.0
From 14 to 17 years	48	34.8	2857	29.3	11036	29.0
18 years and older	27	19.6	1467	15.0	5987	15.8
<b>SEX</b>	<b>North Dakota</b>	<b>%</b>	<b>Midwest</b>	<b>%</b>	<b>Nation</b>	<b>%</b>
	N		N		N	
Total students	138	100.0	9973	100.0	38744	100.0
Information NOT reported	0	0.0	84	0.8	239	0.6
Total known information	138	100.0	9889	100.0	38505	100.0
Male	72	52.2	5453	55.1	20935	54.4
Female	66	47.8	4436	44.9	17570	45.6
<b>RACE/ETHNIC BACKGROUND</b>	<b>North Dakota</b>	<b>%</b>	<b>Midwest</b>	<b>%</b>	<b>Nation</b>	<b>%</b>
	N		N		N	
Total students	138	100.0	9973	100.0	38744	100.0
Information NOT reported	0	0.0	119	1.2	595	1.5
Total known information	138	100.0	9854	100.0	38149	100.0
White	121	87.7	6490	65.9	19640	51.5
Black/African-American	0	0.0	1474	15.0	5880	15.4
Hispanic/Latino	3	2.2	1015	10.3	9226	24.2
American Indian/Alaska Native	12	8.7	46	0.5	329	0.9
Asian/Pacific Islander	1	0.7	390	4.0	1567	4.1
Other	0	0.0	228	2.3	688	1.8
Multi-ethnic background indicated	1	0.7	211	2.1	819	2.1

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Page 2 of 9

AGE AT ONSET OF HEARING LOSS	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	138	100.0	9973	100.0	38744	100.0
Information NOT reported	1	0.7	355	3.6	1412	3.6
Total known information	137	100.0	9618	100.0	37332	100.0
At birth	34	24.8	3663	38.1	15644	41.9
Under 3 years	15	10.9	1690	17.6	7158	19.2
3 years or older	3	2.2	607	6.3	2120	5.7
Unknown	85	62.0	3658	38.0	12410	33.2
<b>ETIOLOGY **</b>						
	N	%	N	%	N	%
Total students	138	100.0	9973	100.0	38744	100.0
Information NOT reported	2	1.4	373	3.7	1618	4.2
Total Known Information	136	100.0	9600	100.0	37126	100.0
Genetic/Hereditary/Familial	24	17.6	2085	21.7	8087	21.8
Pregnancy Related						
Maternal rubella	0	0.0	34	0.4	246	0.7
Cytomegalovirus (CMV)	1	0.7	134	1.4	629	1.7
Maternal drug/alcohol abuse	0	0.0	76	0.8	260	0.7
Medications taken by mother	0	0.0	28	0.3	109	0.3
Rh incompatibility	0	0.0	21	0.2	97	0.3
Consequence of prematurity	4	2.9	353	3.7	1523	4.1
Trauma at birth	0	0.0	74	0.8	296	0.8
Other complications of pregnancy	3	2.2	324	3.4	1418	3.8
Post-Birth Disease/Injury						
Otitis media	16	11.8	717	7.5	1851	5.0
Meningitis	4	2.9	330	3.4	1483	4.0
Other infections	0	0.0	90	0.9	478	1.3
Medications taken by child	0	0.0	160	1.7	577	1.6
Trauma after birth	1	0.7	73	0.8	276	0.7
Other post-birth cause	4	2.9	340	3.5	1265	3.4
Cause cannot be determined/DNA	82	60.3	5099	53.1	19945	53.7

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Page 3 of 9

PARENTAL HEARING STATUS	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	138	100.0	9973	100.0	38744	100.0
Information NOT reported	13	9.4	820	8.2	3033	7.8
Total known info., Either Parent	125	100.0	9153	100.0	35711	100.0
Mother's status: Hearing	118	94.4	8407	91.8	32944	92.3
Hard of hearing	3	2.4	347	3.8	1015	2.8
Deaf	2	1.6	369	4.0	1614	4.5
Unknown	2	1.6	30	0.3	138	0.4
Father's status: Hearing	108	86.4	7805	85.3	30811	86.3
Hard of hearing	3	2.4	247	2.7	727	2.0
Deaf	2	1.6	324	3.5	1413	4.0
Unknown	12	9.6	777	8.5	2760	7.7
Both parents hearing	102	81.6	7511	82.1	29811	83.5
Both parents deaf or hard of hearing	1	0.8	345	3.8	1447	4.1
One parent deaf/hh; other hearing	8	6.4	490	5.4	1555	4.4
One parent deaf/hh; other unknown	0	0.0	107	1.2	320	0.9
One parent hearing; other unknown	14	11.2	700	7.6	2578	7.2
<b>HAS DEAF OR HARD OF HEARING SIBLINGS</b>						
Total students	138	100.0	9973	100.0	38744	100.0
Information NOT reported	1	0.7	493	4.9	2217	5.7
Total known information	137	100.0	9480	100.0	36527	100.0
Has deaf or hard of hearing siblings	15	10.9	1324	14.0	4859	13.3
Has no deaf or hard of hearing siblings	115	83.9	7356	77.6	28662	78.5
Data Not Available	7	5.1	800	8.4	3006	8.2

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Page 4 of 9

UNAIDED AUDIOMETRIC THRESHOLDS MEASUREMENT	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	138	100.0	9973	100.0	38744	100.0
Information NOT reported	9	6.5	1902	19.1	7982	20.6
Total known information	129	100.0	8071	100.0	30762	100.0
Earphone (preferred measurement)	127	98.4	7174	88.9	27211	88.5
Sound field	2	1.6	897	11.1	3551	11.5
<b>DEGREE OF HEARING LOSS</b>						
	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	138	100.0	9973	100.0	38744	100.0
Information NOT reported	2	1.4	1170	11.7	5146	13.3
Total known information	136	100.0	8803	100.0	33598	100.0
Normal (< 27 dB, ANSI)	67	49.3	1963	22.3	5630	16.8
Mild (27-40 dB, ANSI)	24	17.6	1361	15.5	4134	12.3
Moderate (41-55 dB, ANSI)	17	12.5	1320	15.0	4439	13.2
Mod-severe (56-70 dB, ANSI)	3	2.2	1052	12.0	4150	12.4
Severe (71-90 dB, ANSI)	5	3.7	1155	13.1	5109	15.2
Profound (91 dB and above, ANSI)	20	14.7	1952	22.2	10136	30.2
<b>COCHLEAR IMPLANT</b>						
	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	138	100.0	9973	100.0	38744	100.0
Information NOT reported	1	0.7	357	3.6	1591	4.1
Total known information	137	100.0	9616	100.0	37153	100.0
Have not had a cochlear implant	136	99.3	8636	89.8	33578	90.4
Have had a cochlear implant	1	0.7	980	10.2	3575	9.6
Implant Use						
Total students	1	100.0	980	100.0	3575	100.0
Information NOT reported	0	0.0	41	4.2	160	4.5
Total known information	1	100.0	939	100.0	3415	100.0
Implant still used	1	100.0	856	91.2	3118	91.3
Implant no longer used	0	0.0	83	8.8	297	8.7

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

Page 5 of 9

COCHLEAR IMPLANT USE IN CLASSROOM	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	1	100.0	980	100.0	3575	100.0
Information NOT reported	0	0.0	344	35.1	1130	31.6
Total known information	1	100.0	636	100.0	2445	100.0
Implant used in classroom	1	100.0	573	90.1	2194	89.7
Implant not used in classroom	0	0.0	63	9.9	251	10.3
FUNCTIONAL HEARING ABILITY	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	138	100.0	9973	100.0	38744	100.0
Information NOT reported	2	1.4	399	4.0	1488	3.8
Total known information	136	100.0	9574	100.0	37256	100.0
Functions normally	41	30.1	1566	16.4	4808	12.9
Mildly limited	78	57.4	4048	42.3	14113	37.9
+ Moderately limited	5	3.7	709	7.4	1995	5.4
Severely limited	11	8.1	2296	24.0	11523	30.9
No functional hearing	1	0.7	955	10.0	4817	12.9
HEARING AID USE FOR INSTRUCTION	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	138	100.0	9973	100.0	38744	100.0
Information NOT reported	0	0.0	242	2.4	1128	2.9
Total known information	138	100.0	9731	100.0	37616	100.0
Hearing aid used for instruction	77	55.8	5762	59.2	22568	60.0
Hearing aid not used for instruction	61	44.2	3969	40.8	15048	40.0
GROUP ASSISTIVE LISTENING DEVICE(ALD)USE	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	138	100.0	9973	100.0	38744	100.0
Information NOT reported	1	0.7	678	6.8	2758	7.1
Total known information	137	100.0	9295	100.0	35986	100.0
Group ALD used for instruction	23	16.8	4116	44.3	14441	40.1
Group ALD not used for instruction	114	83.2	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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Page 6 of 9

SPOKEN/WRITTEN LANGUAGES IN THE HOME	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	138	100.0	9973	100.0	38744	100.0
Information NOT reported	4	2.9	224	2.2	1098	2.8
Total known information	134	100.0	9749	100.0	37646	100.0
English	131	97.8	8361	85.8	28724	76.3
Spanish	0	0.0	463	4.7	4409	11.7
Other	0	0.0	322	3.3	980	2.6
Multiple languages	3	2.2	603	6.2	3533	9.4
<b>SIGN USE IN THE HOME</b>						
	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	138	100.0	9973	100.0	38744	100.0
Information NOT reported	1	0.7	446	4.5	1902	4.9
Total known information	137	100.0	9527	100.0	36842	100.0
Family members regularly sign	14	10.2	2284	24.0	9921	26.9
Family members do not regularly sign	123	89.8	6889	72.3	25415	69.0
Data not available	0	0.0	354	3.7	1506	4.1
<b>COMMUNICATION MODE PRIMARILY USED IN TEACHING</b>						
	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	138	100.0	9973	100.0	38744	100.0
Information NOT reported	1	0.7	78	0.8	394	1.0
Total known information	137	100.0	9895	100.0	38350	100.0
Speech only	111	81.0	5511	55.7	18120	47.2
Sign and speech	26	19.0	3617	36.6	15460	40.3
Sign only	0	0.0	655	6.6	4175	10.9
Cued Speech	0	0.0	29	0.3	117	0.3
Other	0	0.0	83	0.8	478	1.2

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Page 7 of 9

INSTRUCTIONAL SETTINGS **	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	138	100.0	9973	100.0	38744	100.0
Information NOT reported	1	0.7	115	1.2	567	1.5
Total known information	137	100.0	9858	100.0	38177	100.0
Special school or center	22	16.1	1712	17.4	10354	27.1
Self-contained clrm in req. ed. setting	7	5.1	3335	33.8	11854	31.1
Resource room	16	11.7	1537	15.6	5290	13.9
Regular education setting	100	73.0	5073	51.5	17573	46.0
Home	0	0.0	193	2.0	1156	3.0
Other	1	0.7	384	3.9	1729	4.5
<b>HRS/WK INTEGRATED W/HEARING STUDENTS</b>						
	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	138	100.0	9973	100.0	38744	100.0
Information NOT reported	4	2.9	217	2.2	903	2.3
Total known information	134	100.0	9756	100.0	37841	100.0
None	17	12.7	3040	31.2	13994	37.0
1 to 5 hours/week	4	3.0	938	9.6	4000	10.6
6 to 15 hours/week	12	9.0	1160	11.9	4226	11.2
16 to 25 hours/week	24	17.9	1133	11.6	3847	10.2
26 or more hours/week	77	57.5	3485	35.7	11774	31.1

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Page 8 of 9

SUPPORT SERVICES RECEIVED **	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	138	100.0	9973	100.0	38744	100.0
Information NOT reported	0	0.0	182	1.8	817	2.1
Total known information	138	100.0	9791	100.0	37927	100.0
No support services	47	34.1	465	4.7	2179	5.7
Oral interpreting	0	0.0	93	0.9	381	1.0
Sign interpreting	22	15.9	2277	23.3	8749	23.1
Cued speech transliteration	0	0.0	29	0.3	126	0.3
Tutoring	21	15.2	541	5.5	2667	7.0
Speech training/therapy	37	26.8	5800	59.2	22973	60.6
Notetaking	0	0.0	381	3.9	1636	4.3
Real-time captioning	1	0.7	116	1.2	411	1.1
Counseling	4	2.9	1190	12.2	4229	11.2
Itinerant teacher services	9	6.5	4219	43.1	13691	36.1
Classroom inst. ass't/aide services	29	21.0	1339	13.7	6755	17.8
Auditory training	33	23.9	1949	19.9	9991	26.3
Occupational/Physical Therapy (OT/PT)	6	4.3	907	9.3	3350	8.8
Other	29	21.0	1253	12.8	5129	13.5
<b>ADDIT. CONDITIONS OTHER THAN DEAFNESS**</b>						
Total students	138	100.0	9973	100.0	38744	100.0
Information NOT reported	1	0.7	667	6.7	2585	6.7
Total known information	137	100.0	9306	100.0	36159	100.0
No condition in addition to deafness	96	70.1	5571	59.9	21860	60.5
Low vision	1	0.7	278	3.0	1134	3.1
Legal blindness	0	0.0	115	1.2	517	1.4
Learning disability	7	5.1	1031	11.1	3621	10.0
Mental retardation	18	13.1	969	10.4	3288	9.1
Attention Deficit Disorder	5	3.6	744	8.0	2388	6.6
Emotional disturbance	0	0.0	191	2.1	714	2.0
Cerebral palsy	4	2.9	268	2.9	1153	3.2
Other conditions	12	8.8	1061	11.4	4818	13.3

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Page 9 of 9

FUNCTIONAL ASSESSMENT **	North Dakota		Midwest		Nation	
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Total students	138	100.0	9973	100.0	38744	100.0
Information NOT reported	2	1.4	383	3.8	1791	4.6
Total known information	136	100.0	9590	100.0	36953	100.0
No functional limitations	57	41.9	2959	30.9	11268	30.5
1 or more functional limitation	79	58.1	6631	69.1	25685	69.5
*Vision	7	5.1	1143	11.9	4623	12.5
*Thinking/reasoning	40	29.4	3328	34.7	12788	34.6
*Maintaining attention to classroom tasks	51	37.5	3801	39.6	14372	38.9
*Expressive communication	61	44.9	4805	50.1	19456	52.7
*Receptive communication	67	49.3	4931	51.4	19674	53.2
*Social interaction/classroom behavior	35	25.7	3014	31.4	11385	30.8
*Use of hands, arms, and legs	14	10.3	1213	12.6	4587	12.4
*Balance	9	6.6	927	9.7	3836	10.4
*Overall physical health	13	9.6	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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