

## 2004-2005 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	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	139	100.0	9272	100.0	37500	100.0
Information NOT reported	1	0.7	229	2.5	841	2.2
Total known information	138	100.0	9043	100.0	36659	100.0
Under 3 years	1	0.7	201	2.2	1244	3.4
From 3 to 5 years	5	3.6	783	8.7	3419	9.3
From 6 to 9 years	39	28.3	2063	22.8	7898	21.5
From 10 to 13 years	34	24.6	2637	29.2	10348	28.2
From 14 to 17 years	46	33.3	2510	27.8	10230	27.9
18 years and older	13	9.4	849	9.4	3520	9.6
<b>SEX</b>						
Total students	139	100.0	9272	100.0	37500	100.0
Information NOT reported	1	0.7	50	0.5	148	0.4
Total known information	138	100.0	9222	100.0	37352	100.0
Male	75	54.3	5086	55.2	20253	54.2
Female	63	45.7	4136	44.8	17099	45.8
<b>RACE/ETHNIC BACKGROUND</b>						
Total students	139	100.0	9272	100.0	37500	100.0
Information NOT reported	0	0.0	133	1.4	583	1.6
Total known information	139	100.0	9139	100.0	36917	100.0
White	122	87.8	5930	64.9	18712	50.7
Black/African-American	0	0.0	1413	15.5	5647	15.3
Hispanic/Latino	2	1.4	960	10.5	9226	25.0
American Indian/Alaska Native	13	9.4	48	0.5	307	0.8
Asian/Pacific Islander	1	0.7	353	3.9	1512	4.1
Other	0	0.0	240	2.6	708	1.9
Multi-ethnic background indicated	1	0.7	195	2.1	805	2.2

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AGE AT ONSET OF HEARING LOSS	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	139	100.0	9272	100.0	37500	100.0
Information NOT reported	0	0.0	380	4.1	1551	4.1
Total known information	139	100.0	8892	100.0	35949	100.0
At birth	37	26.6	3427	38.5	15212	42.3
Under 3 years	23	16.5	1586	17.8	6930	19.3
3 years or older	2	1.4	562	6.3	1985	5.5
Unknown	77	55.4	3317	37.3	11822	32.9
AGE AT ONSET OF HEARING LOSS	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	139	100.0	9272	100.0	37500	100.0
Information NOT reported	0	0.0	380	4.1	1551	4.1
Total known information	139	100.0	8892	100.0	35949	100.0
At Birth	37	26.6	3427	38.5	15212	42.3
Under One Year	3	2.2	611	6.9	2631	7.3
Unknown, but before age 2	10	7.2	707	8.0	2953	8.2
Unknown	77	55.4	3317	37.3	11822	32.9
1 year of age	4	2.9	85	1.0	587	1.6
2 years of age	6	4.3	183	2.1	759	2.1
3 years of age	0	0.0	152	1.7	554	1.5
4 years of age	1	0.7	95	1.1	361	1.0
5 years of age	0	0.0	106	1.2	336	0.9
6 years of age	1	0.7	68	0.8	205	0.6
7 years of age	0	0.0	39	0.4	137	0.4
8+ years of age	0	0.0	102	1.1	392	1.1

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ETIOLOGY **	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	139	100.0	9272	100.0	37500	100.0
Information NOT reported	1	0.7	436	4.7	1778	4.7
Total Known Information	138	100.0	8836	100.0	35722	100.0
Genetic/Hereditary/Familial	27	19.6	1989	22.5	8107	22.7
Pregnancy Related						
Maternal rubella	0	0.0	29	0.3	232	0.6
Cytomegalovirus (CMV)	1	0.7	124	1.4	629	1.8
Maternal drug/alcohol abuse	0	0.0	73	0.8	256	0.7
Medications taken by mother	0	0.0	25	0.3	101	0.3
Rh incompatibility	0	0.0	20	0.2	78	0.2
Consequence of prematurity	2	1.4	301	3.4	1428	4.0
Trauma at birth	0	0.0	55	0.6	231	0.6
Other complications of pregnancy	4	2.9	290	3.3	1346	3.8
Post-Birth Disease/Injury						
Otitis media	15	10.9	653	7.4	1718	4.8
Meningitis	5	3.6	296	3.3	1291	3.6
Other infections	1	0.7	76	0.9	408	1.1
Medications taken by child	1	0.7	148	1.7	554	1.6
Trauma after birth	1	0.7	63	0.7	252	0.7
Other post-birth cause	4	2.9	312	3.5	1207	3.4
Cause cannot be determined/DNA	81	58.7	4680	53.0	19193	53.7
<b>+SPECIFIC GENETIC CAUSE OR SYNDROME</b>						
Total students	27	100.0	1989	100.0	8107	100.0
Information NOT reported	20	74.1	1450	72.9	4964	61.2
Total known information	7	100.0	539	100.0	3143	100.0
Waardenburg syndrome	0	0.0	31	5.8	152	4.8
Usher syndrome	0	0.0	19	3.5	91	2.9
Treacher syndrome	0	0.0	15	2.8	104	3.3
Down syndrome	1	14.3	80	14.8	275	8.7
CHARGE syndrome	1	14.3	42	7.8	176	5.6
Chromosome abnormality	2	28.6	16	3.0	69	2.2
Connexin-26 (GJB2)	0	0.0	15	2.8	57	1.8
Other	3	42.9	325	60.3	2237	71.2

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

+ New question for the 2004-2005 survey year

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PARENTAL HEARING STATUS	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	139	100.0	9272	100.0	37500	100.0
Information NOT reported	13	9.4	752	8.1	2887	7.7
Total known info., Either Parent	126	100.0	8520	100.0	34613	100.0
Mother's status: Hearing	117	92.9	7784	91.4	31860	92.0
Hard of hearing	5	4.0	343	4.0	1027	3.0
Deaf	2	1.6	358	4.2	1601	4.6
Unknown	2	1.6	35	0.4	125	0.4
Father's status: Hearing	109	86.5	7227	84.8	29851	86.2
Hard of hearing	3	2.4	229	2.7	706	2.0
Deaf	2	1.6	323	3.8	1410	4.1
Unknown	12	9.5	741	8.7	2646	7.6
Both parents hearing	101	80.2	6936	81.4	28866	83.4
Both parents deaf or hard of hearing	1	0.8	342	4.0	1445	4.2
One parent deaf/hh; other hearing	10	7.9	466	5.5	1531	4.4
One parent deaf/hh; other unknown	0	0.0	103	1.2	323	0.9
One parent hearing; other unknown	14	11.1	673	7.9	2448	7.1
<b>HAS DEAF OR HARD OF HEARING SIBLINGS</b>						
Total students	139	100.0	9272	100.0	37500	100.0
Information NOT reported	2	1.4	314	3.4	1617	4.3
Total known information	137	100.0	8958	100.0	35883	100.0
Has deaf or hard of hearing siblings	16	11.7	1261	14.1	4923	13.7
Has no deaf or hard of hearing siblings	114	83.2	6956	77.7	28059	78.2
Data Not Available	7	5.1	741	8.3	2901	8.1

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UNAIDED AUDIOMETRIC THRESHOLDS MEASUREMENT	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	139	100.0	9272	100.0	37500	100.0
Information NOT reported	13	9.4	1860	20.1	7708	20.6
Total known information	126	100.0	7412	100.0	29792	100.0
Earphone (preferred measurement)	124	98.4	6381	86.1	25499	85.6
Sound field	2	1.6	969	13.1	3965	13.3
+ABR	0	0.0	62	0.8	328	1.1
<b>DEGREE OF HEARING LOSS</b>						
	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	139	100.0	9272	100.0	37500	100.0
Information NOT reported	4	2.9	1202	13.0	5364	14.3
Total known information	135	100.0	8070	100.0	32136	100.0
Normal (< 27 dB, ANSI)	64	47.4	1817	22.5	5493	17.1
Mild (27-40 dB, ANSI)	18	13.3	1262	15.6	3975	12.4
Moderate (41-55 dB, ANSI)	18	13.3	1196	14.8	4318	13.4
Mod-severe (56-70 dB, ANSI)	5	3.7	928	11.5	3908	12.2
Severe (71-90 dB, ANSI)	6	4.4	1056	13.1	4835	15.0
Profound (91 dB and above, ANSI)	24	17.8	1811	22.4	9607	29.9
<b>COCHLEAR IMPLANT</b>						
	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	139	100.0	9272	100.0	37500	100.0
Information NOT reported	1	0.7	303	3.3	1428	3.8
Total known information	138	100.0	8969	100.0	36072	100.0
Have not had a cochlear implant	135	97.8	7945	88.6	32021	88.8
Have had a cochlear implant	3	2.2	1024	11.4	4051	11.2
<b>Implant Use</b>						
Total students	3	100.0	1024	100.0	4051	100.0
Information NOT reported	0	0.0	46	4.5	191	4.7
Total known information	3	100.0	978	100.0	3860	100.0
Implant still used	2	66.7	888	90.8	3544	91.8
Implant no longer used	1	33.3	90	9.2	316	8.2

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COCHLEAR IMPLANT USE IN CLASSROOM	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	3	100.0	1024	100.0	4051	100.0
Information NOT reported	0	0.0	148	14.5	725	17.9
Total known information	3	100.0	876	100.0	3326	100.0
Implant used in classroom	2	66.7	791	90.3	3001	90.2
Implant not used in classroom	1	33.3	85	9.7	325	9.8
FUNCTIONAL HEARING ABILITY	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	139	100.0	9272	100.0	37500	100.0
Information NOT reported	1	0.7	416	4.5	1651	4.4
Total known information	138	100.0	8856	100.0	35849	100.0
Functions normally	32	23.2	1243	14.0	4102	11.4
Mildly limited	81	58.7	3695	41.7	13068	36.5
Moderately limited	11	8.0	1039	11.7	3794	10.6
Severely limited	13	9.4	1976	22.3	10456	29.2
No functional hearing	1	0.7	903	10.2	4429	12.4
HEARING AID USE FOR INSTRUCTION	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	139	100.0	9272	100.0	37500	100.0
Information NOT reported	0	0.0	170	1.8	1007	2.7
Total known information	139	100.0	9102	100.0	36493	100.0
Hearing aid used for instruction	86	61.9	5230	57.5	21604	59.2
Hearing aid not used for instruction	53	38.1	3872	42.5	14889	40.8
GROUP ASSISTIVE LISTENING DEVICE(ALD)USE	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	139	100.0	9272	100.0	37500	100.0
Information NOT reported	1	0.7	386	4.2	1849	4.9
Total known information	138	100.0	8886	100.0	35651	100.0
Group ALD used for instruction	30	21.7	4046	45.5	14701	41.2
Group ALD not used for instruction	108	78.3	4840	54.5	20950	58.8

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SPOKEN/WRITTEN LANGUAGES IN THE HOME	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	139	100.0	9272	100.0	37500	100.0
Information NOT reported	3	2.2	241	2.6	1115	3.0
Total known information	136	100.0	9031	100.0	36385	100.0
English	134	98.5	7714	85.4	27476	75.5
Spanish	0	0.0	454	5.0	4438	12.2
Other	0	0.0	290	3.2	914	2.5
Multiple languages	2	1.5	573	6.3	3557	9.8
<b>SIGN USE IN THE HOME</b>						
	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	139	100.0	9272	100.0	37500	100.0
Information NOT reported	2	1.4	323	3.5	1540	4.1
Total known information	137	100.0	8949	100.0	35960	100.0
Family members regularly sign	14	10.2	2189	24.5	9626	26.8
Family members do not regularly sign	123	89.8	6548	73.2	24906	69.3
Data not available	0	0.0	212	2.4	1428	4.0
<b>COMMUNICATION MODE PRIMARILY USED IN TEACHING</b>						
	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	139	100.0	9272	100.0	37500	100.0
Information NOT reported	0	0.0	68	0.7	421	1.1
Total known information	139	100.0	9204	100.0	37079	100.0
Speech only	106	76.3	5119	55.6	17738	47.8
Sign and speech	32	23.0	3348	36.4	14639	39.5
Sign only	1	0.7	638	6.9	4149	11.2
Cued Speech	0	0.0	37	0.4	122	0.3
Other	0	0.0	62	0.7	431	1.2

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INSTRUCTIONAL SETTINGS **	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	139	100.0	9272	100.0	37500	100.0
Information NOT reported	0	0.0	112	1.2	556	1.5
Total known information	139	100.0	9160	100.0	36944	100.0
Special school or center	30	21.6	1702	18.6	10364	28.1
Self-contained clrm in req. ed. setting	6	4.3	3000	32.8	11041	29.9
Resource room	18	12.9	1486	16.2	5199	14.1
Regular education setting	107	77.0	4739	51.7	17346	47.0
Home	0	0.0	189	2.1	948	2.6
Other	0	0.0	303	3.3	2434	6.6
<b>HRS/WK INTEGRATED W/HEARING STUDENTS</b>						
	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	139	100.0	9272	100.0	37500	100.0
Information NOT reported	1	0.7	272	2.9	1071	2.9
Total known information	138	100.0	9000	100.0	36429	100.0
None	23	16.7	2821	31.3	13262	36.4
1 to 5 hours/week	7	5.1	937	10.4	3720	10.2
6 to 15 hours/week	9	6.5	1070	11.9	4199	11.5
16 to 25 hours/week	43	31.2	1092	12.1	3768	10.3
26 or more hours/week	56	40.6	3080	34.2	11480	31.5
<b>+ABR Results</b>						
	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	139	100.0	9272	100.0	37500	100.0
Information NOT reported	114	82.0	8958	96.6	31062	82.8
Total known information	25	100.0	314	100.0	6438	100.0
ABR results are not available/reliable	25	100.0	242	77.1	4370	67.9
Response absent at 30 dB nHL	0	0.0	5	1.6	97	1.5
Response absent at 40 dB nHL	0	0.0	7	2.2	164	2.5
Response absent at 50 dB nHL	0	0.0	8	2.5	191	3.0
Response absent at 60 dB nHL	0	0.0	9	2.9	250	3.9
Response absent at 70-90 dB nHL	0	0.0	26	8.3	874	13.6
Response absent at 100+ dB nHL	0	0.0	17	5.4	492	7.6

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SUPPORT SERVICES RECEIVED **	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	139	100.0	9272	100.0	37500	100.0
Information NOT reported	0	0.0	185	2.0	723	1.9
Total known information	139	100.0	9087	100.0	36777	100.0
No support services	45	32.4	544	6.0	2465	6.7
Sign interpreting	31	22.3	2257	24.8	9200	25.0
Oral interpreting	1	0.7	119	1.3	455	1.2
Cued speech transliteration	0	0.0	40	0.4	135	0.4
Itinerant teacher services	3	2.2	3884	42.7	13302	36.2
Tutoring	36	25.9	698	7.7	3301	9.0
Classroom inst. ass't/aide services	24	17.3	1314	14.5	6893	18.7
+Adaptive PE	4	2.9	305	3.4	1151	3.1
Speech training/therapy	56	40.3	5340	58.8	22172	60.3
Auditory training	30	21.6	1729	19.0	9892	26.9
Counseling	4	2.9	1103	12.1	4234	11.5
Occupational/Physical Therapy (OT/PT)	7	5.0	937	10.3	3397	9.2
Notetaking	1	0.7	400	4.4	1748	4.8
Real-time captioning	1	0.7	101	1.1	610	1.7
Other	14	10.1	1005	11.1	4589	12.5
<b>ADDIT. CONDITIONS OTHER THAN DEAFNESS**</b>						
	North Dakota		Midwest		Nation	
	N	%	N	%	N	%
Total students	139	100.0	9272	100.0	37500	100.0
Information NOT reported	1	0.7	527	5.7	2093	5.6
Total known information	138	100.0	8745	100.0	35407	100.0
No condition in addition to deafness	91	65.9	4882	55.8	20390	57.6
Low vision	2	1.4	255	2.9	1173	3.3
Legal blindness	0	0.0	106	1.2	470	1.3
+Developmental delay	2	1.4	177	2.0	624	1.8
+Autism	0	0.0	100	1.1	341	1.0
+Orthopedic impairment(includes CP)	6	4.3	283	3.2	1295	3.7
Learning disability (LD)	6	4.3	915	10.5	3265	9.2
Attention Deficit Disorder (ADD/ADHD)	8	5.8	694	7.9	2235	6.3
+Speech or language impairment	5	3.6	790	9.0	3362	9.5
+Traumatic brain injury	0	0.0	15	0.2	52	0.1
Mental retardation	12	8.7	805	9.2	2902	8.2
Emotional disturbance	1	0.7	195	2.2	675	1.9
+Other health impairment	3	2.2	211	2.4	703	2.0
Other conditions	11	8.0	593	6.8	2446	6.9

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