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## EC91-734 NOISE ... Sound Without Value (Tractor Sound Levels, 1970-1990)

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***NOISE...***

# **Sound Without Value**

Tractor Sound Levels, 1970-1990



Issued in furtherance of Cooperative Extension work,  
Acts of May 8 and June 30, 1914, in cooperation with the  
U.S. Department of Agriculture. Kenneth R. Bolen, Director of  
Cooperative Extension, University of Nebraska,  
Institute of Agriculture and Natural Resources.



# Noise...Sound Without Value

**Rollin D. Schnieder  
Extension Safety Specialist**

Oh, for the peace and quiet of the country. Surely you have heard this statement. How true this was in years gone by. Now, however, the country environment is often filled with the noise of thumping cylinders and turning gears in modern tractors — noises previously associated with cities have moved into rural areas.

What do the words sound and noise mean? Some people refer to sound as something pleasant. For example, a number of tones placed together might result in a beautiful symphony. However, if these notes are played too loudly or off key, they might be referred to as noise. One definition of noise is "a weed in the garden of sound."

## **Effects of Noise**

One of the problems associated with excessive noise is the potential damage to human hearing. Tractors, harvesters, grinders, choppers, conveyors, chain saws and power mowers are a few of the pieces of equipment contributing to the noise problem on farms and ranches. In the home, stereos, dishwashers, and vacuum cleaners also add to the problem.

The human ear is a marvelous device and has tremendous sensitivity, but noise levels have increased so much that many persons have lost much of this audio sensitivity.

## **The Ear**

To better understand the nature of sound-induced hearing loss, consider the ear (*Fig. 1*). Sound comes to us as pulsating waves of air pressure. These waves travel through the outer ear until they strike the eardrum. The vibration of the eardrum is transmitted by the bones of the middle ear to the cochlea or inner ear.

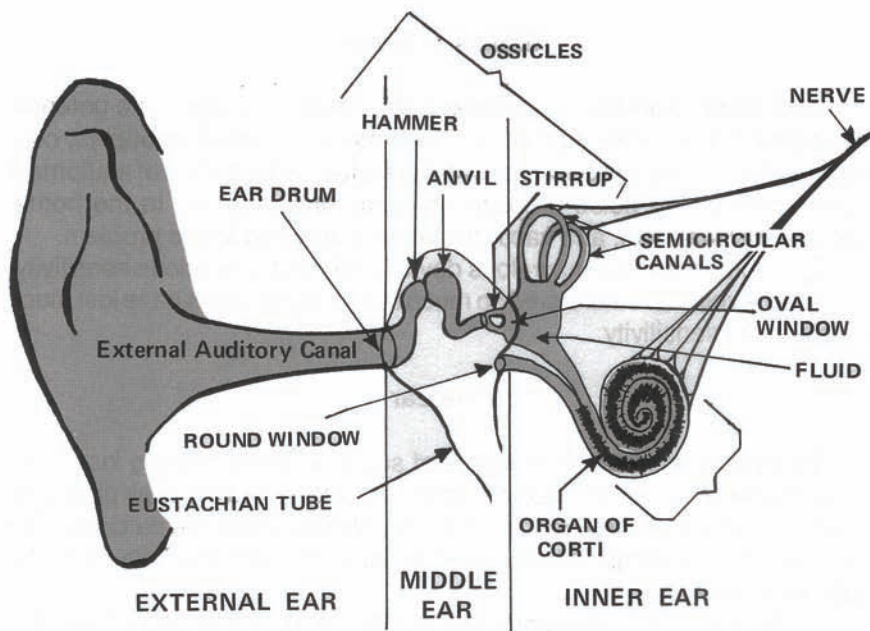
In the inner ear, vibrations are picked up by some 30,000 hairlike protrusions which signal the auditory nerves to the brain. When the hairs of the cochlea have been stressed too hard for too long, they weaken and no longer respond to sound. Rest in a quiet place can often restore the system to normal. However, after many hard days, some hairs may not straighten and permanent hearing loss can result.

The ability of the inner ear to recover from fatigue varies among individuals. But, ability to hear high pitched sounds is usually lost long before the understanding of speech is impaired. Young people usually can hear sound from 20 to 20,000 Hertz (cycles per second).

Noise also can cause loss of hearing, aural pain, fatigue, nausea, and even reduced muscle control. In extremely noisy work places, it has been possible to relate heart beat change to high noise levels.

Psychological effects such as depression and nervousness may be a result of the ear's inability to adjust to sound. The eye has a relatively effective means to adjust to light but the ear has less ability. This ability weakens and fails as exposure to noise continues. Getting used to sound is mostly an adjustment in mental attitude rather than ear compensation, which is achieved only by a loss of sensitivity. Subconscious frustration can result when noise is endured, and the body system cannot adjust to it.

Fig. 1



## Why We Lose Hearing

While temporary hearing loss may follow short-term exposure to loud noises, normal hearing usually comes back after a rest. Permanent hearing loss may occur as a result of aging, disease, injury or exposure to loud noises over an extended time.

Sounds intense enough to cause hearing loss may not annoy a person. Actually they might even be enjoyable. A farmer driving a tractor may like hearing it lug loudly through some tough spots. Some even like to remove the muffler to get the sound of more "power." Others may enjoy the sounds of snowmobiles, cycles, target shooting, sports arenas and others. However, some noises can be annoying. Many farmers complain about the extremely high noise levels in livestock auction barns.

The now-and-then nature of these noises probably won't bother us too much; however, continuous doses above 90 dBA cause permanent hearing losses. The safe limit is 85 dBA.

## Sound Measurement

The decibel is a standard method of expressing sound intensity. To avoid working with unwieldy numbers in evaluating sound intensity, a logarithmic scale is used as a unit of measure.

We hear according to a logarithmic scale of intensity. Taking sound pressure levels as a means of comparing loudness, we begin by measuring the average hearing threshold of young people, i.e., the softest sound they can hear in a perfectly quiet room. This we would call one decibel. In this bulletin, we are talking in terms of the decibel A scale or dBA.

If we add enough sound to cause a perceptible increase, we have two decibels, and so on up the scale until we reach a point where the sound actually causes discomfort or pain, such as the sound from a jet engine or large siren. This would be about 140 decibels.

The ability to hear middle and high frequency sounds usually decreases with age. The longer the noise exposure, the greater the damage to the human mechanism. Continued exposure to loud noise can lead to increasing difficulty in hearing normal conversation or even shouted warnings of danger.

## Properties of Noise

Some properties of noise are intensity, frequency and duration. The louder the noise, the greater its intensity; high frequency noises may be more damaging to hearing than low frequency noises. Frequency is the number of variations in sound pressure per unit of time expressed in hertz (Fig. 2).

Distance has an effect on sound pressure or intensity. If you are 5 feet from a noisy machine and you move back to 10 feet, the sound pressure drops to one-fourth of what it was at 5 feet.

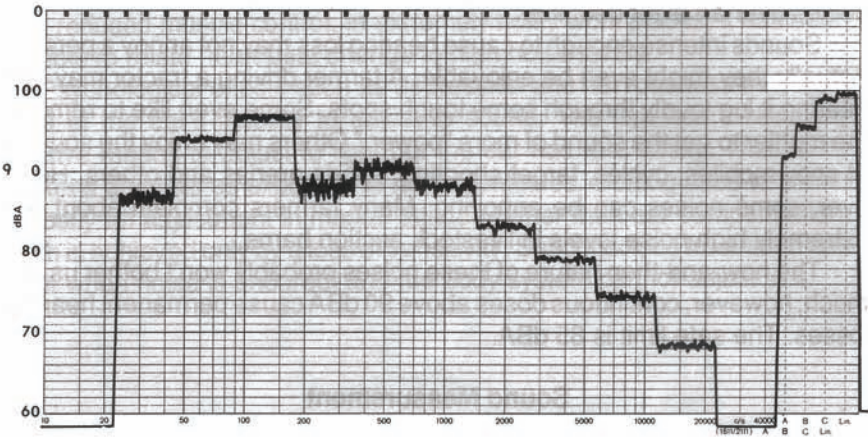


Fig 2. Frequency range for a tractor.

## Humans and Noise

Noise can affect people in several ways. It can have a psychological effect which might startle, annoy or disrupt concentration, relaxation or sleep. People working in noisy environments are more easily confused and make more errors.

Noise also might interfere with communication, thus interfering with job safety and performance.

When looking at any decibel scale, remember that an increase of a few decibels represents a considerable increase in sound intensity (*Table 1*). This becomes important as we near the ear tolerance limits for continued noise exposure. A few decibels one way or the other can make the difference between safe noise levels and those which damage hearing. You can't always rely on your ears to tell you the difference. A damaging noise level may not seem much louder than the acceptable one.

## How to Control Noise

Every noise problem breaks down into three parts: (1) source of sound, (2) path along which the sound energy travels, and (3) the ear.

**Table I. Decibel levels of common sounds at typical distance from source.**

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0	Acute threshold of hearing
15	Average threshold of hearing
20	Whisper
30	Leaves rustling, very soft music
40	Average residence
60	Normal speech, background music
70	Noisy office, inside auto 60 mph
80	Heavy traffic, window air-cond.
85	16-hour OSHA limit
90	8-hour OSHA limit
100	Noisy tractor, power mower, ATV, snowmobile, motorcycle, in subway car, chain saw
120	Thunderclap, jackhammer, basketball crowd, amplified siren at 100 feet

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The control of noise at the source is an engineering problem which requires dampening the noise by modifying or redesigning the source. Noise can be reduced along the path by not making the noise, by putting shields between you and the noise and by absorbing the noise with some absorbent material. Control noise at the ear by using ear protectors, limiting exposure time or working in a sound-resistant enclosure.

### Hearing Protection

Sometimes we cannot control all the noise at its source, so it may be necessary to have hearing protection. Hearing protection consists primarily of the insert type earplug (*Fig. 3*) or the earmuff (*Fig. 4*).

The earplug is placed in the ear canal. It is made of rubber, soft or hard plastic, and special materials which expand when placed in the ear. Rubber and plastic types are popular because they are inexpensive and easy to clean.

The special foam inserts are shaped by hand. They should be discarded after one use. Plain cotton is a poor noise suppressor and offers little protection. Neither the earplugs used by swimmers nor hi-fi earphones are suitable noise protectors.

Some people prefer that the earplug be custom-fitted so it will be more comfortable and do a better job of blocking noise. The earplug has the advantage of being cooler in hot weather.

Fortunately, no one needs to suffer hearing damage. If exposure is over 85 dBA, consider hearing protection. Some complain that hearing protection will block out all noise. This is not true since the design of protective devices merely reduces the amount of noise reaching the ear.

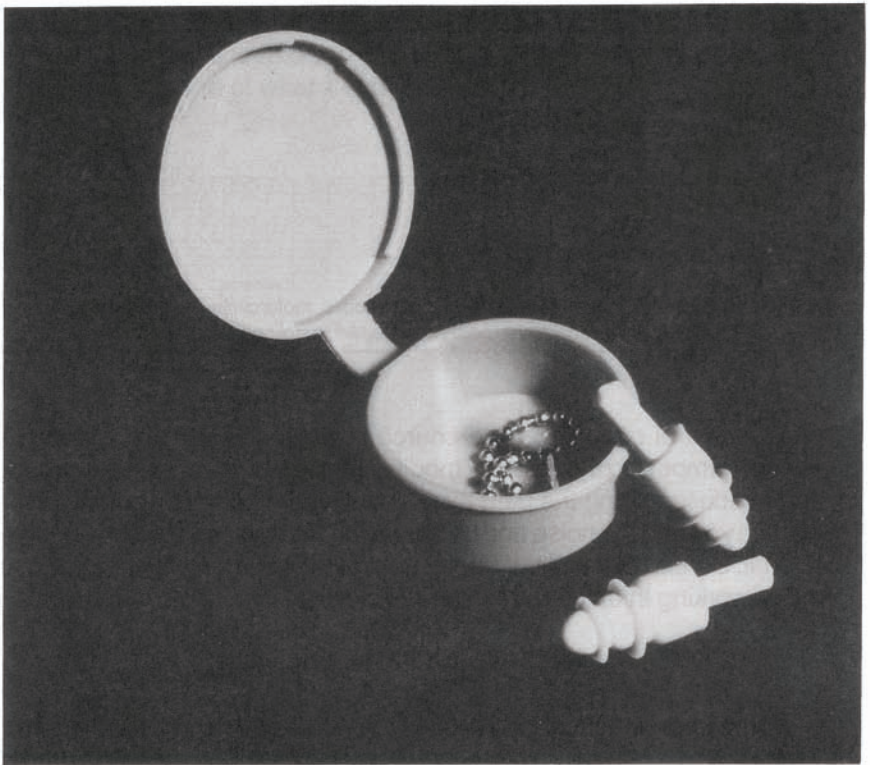


Fig. 3 Ear plugs

### **Sources of Hearing Protection**

Earmuffs and ear plug are available from several sources including equipment companies, sporting goods stores, and ear doctors (otolaryngologists).

### **Other Ways to Conserve Hearing**

There are several ways to conserve hearing. One of the more important ways is to keep the vehicle's exhaust system in good repair. Many replacement mufflers are better than the original equipment.

When shopping for new equipment, especially new tractors, compare the noise values from the official Nebraska Tractor Tests with the permissible noise levels listed in the Occupational Safety and Health Act (*Table II*).

Keep machinery properly maintained and lubricated. Poor maintenance not only makes a machine noisier, but it also increases wear.





**Fig. 4. Earmuffs**

Limit the amount of exposure to noisy items such as chain saws, grinders, etc., unless you are using ear protection. Try to place noisy items such as crop drying equipment away from dwellings and livestock confinement.

Insulate or place noise barriers where you have noisy equipment. If you have a noisy cab, insulate it. Contact your extension agricultural engineer for information on how to do this.

Everyone working in agriculture should have a hearing test. Studies have shown that agriculturally related noises can cause hearing problems. These tests can be obtained from several sources, including the University of Nebraska Speech and Hearing Clinic, Nebraska State Fair, otolaryngologists (ear, nose and throat specialists) and other organizations sponsoring screening tests. It is a good idea to get a test even if you think you do not have a problem since the hearing test can reveal early signs of hearing loss.

In 1970, the University of Nebraska Tractor Testing Laboratory included a noise level test as part of the official Nebraska Test. The test included a

bystander level test which is a requirement for tractors sold on the European market. The 100, 75, and 50 percent load gives the noise levels at full throttle at those loads (*Fig. 5*). A new test at part throttle and 50 percent pull was added shortly after the test started. *Table III* shows results of noise testing at the Nebraska Tractor Testing Laboratory, University of Nebraska. Note how noise levels have decreased from the first test in 1970 to more recent tests. Much of this has resulted from refinement in cab design and improved insulation.

Manufacturers deserve a great deal of credit for their outstanding work to reduce tractor noise levels. A lot of advancement has been made over the last few years; more is promised in the future.

A great deal has been learned about problems relating to noise. For example, we know what noise is, the agricultural equipment producing it, and the damaging effects it causes to the hearing mechanism.

The noise level on new equipment is being reduced; however, this does not affect much of the equipment in use today. The task of hearing conservation is up to you. You can conserve the hearing you have by getting a hearing test and using proper ear protectors.



**Table II. Permissible noise-exposure times.**

<i>A-weighted sound level (slow response)*</i>	<i>Exposure (hrs.-min)</i>
85dB	16 - 0
86	13 - 56
87	12 - 7
88	10 - 33
89	9 - 11
90	8 - 0
91	6 - 58
92	6 - 4
93	5 - 17
94	4 - 36
95	4 - 0
96	3 - 29
97	3 - 2
98	2 - 33
99	2 - 18
100	2 - 0
101	1 - 44
102	1 - 31
103	1 - 19
104	1 - 9
105	1 - 0
106	0 - 52
107	0 - 46
108	0 - 40
109	0 - 34
110	0 - 30
111	0 - 26
112	0 - 23
113	0 - 20
114	0 - 17
115	0 - 15
Over 115	None

*Exposure to impulsive or impact noise should not exceed 140 dBA peak sound pressure level.*

*\*Sound level meters, which measure sound pressure in decibels, have several scales: A, B, and C. The A-scale, commonly used for general noise measurement, corresponds to the response of the human ear which is less efficient at picking up low sounds below 500 cycles than the middle and high tones up to 8,000 cycles.*

**Table III. Nebraska tractor test summary of sound test results 1970-1982 (dBA).**

<i>Tractor name</i>	<i>Test No.</i>	<i>Bystander sound level</i>	<i>Max. available power</i>	<i>75% of pull</i>	<i>50% of pull</i>	<i>50% of pull (reduced engine speed)</i>
Case 970 Manual Dsl.	1034	90.0	94.0	94.5	94.5	91.0
Case 1070 Manual Dsl.	1035	89.5	95.0	94.5	95.5	-----
Case 1070 P. S. Dsl.	1036	89.5	95.0	94.0	96.0	-----
Case 970 P. S. Dsl.	1037	89.5	93.0	95.0	95.5	93.5
Case 970 P. S. Gas	1038	85.5	91.5	91.5	89.5	-----
Case 970 Manual Gas	1039	86.0	92.0	92.0	90.5	-----
Oliver 1855 Dsl.	1040	86.5	93.5	95.0	94.0	-----
Oliver 1655 Dsl.	1041	88.0	98.5	99.0	97.0	-----
Oliver 1655 Gas	1042	85.0	97.0	96.0	95.5	-----
Allis-Chalmers 175 Dsl.	1043	86.0	93.0	93.0	92.0	-----
Allis-Chalmers 185 Dsl.	1044	88.5	94.5	96.0	94.5	90.5
International 826 Dsl. w/cab	1045	88.0	95.0	96.0	97.0	90.0
International 826 Hydro. Dsl. w/cab	1046	89.0	99.5	98.0	95.5	94.0
International 1026 Hydro. Dsl. w/cab	1047	88.0	97.5	95.5	93.5	95.5
International 1456 Dsl. w/cab	1048	86.4	93.0	92.0	91.5	93.0
Massey-Ferguson MF 1150 Dsl.	1049	91.4	99.0	98.5	98.5	99.0
John Deere 4320 Dsl. 2/cab	1050	88.4	92.0	92.5	92.5	90.0
Ford 3000 Gas 6-Speed	1051	81.5	100.0	99.0	96.0	93.5
Ford 3000 Dsl. 6-Speed	1052	84.8	99.5	97.5	96.0	93.5
Ford 2000 Dsl. & Speed	1053	86.9	190.0	98.5	96.5	94.5
Ford 2000 Gas & Speed	1054	81.3	98.5	96.5	93.5	-----
Oliver 1955 Dsl.	1055	87.3	95.5	95.5	95.5	91.0
Oliver 1755 Gas	1056	86.0	94.0	94.0	94.0	91.5
Oliver 1755 Dsl.	1057	92.5	97.5	96.5	96.0	92.5
Case 770 P.S. Dsl.	1058	88.4	93.5	94.0	94.0	89.5
Case 870 P.S. Gas	1059	84.4	92.5	90.5	89.0	88.0
Case 870 Manual Gas	1060	84.4	91.5	90.0	88.5	87.0
Case 770 Manual Gas	1061	83.5	89.5	89.0	88.5	-----
Case 1170 Dsl. w/cab	1062	89.0	89.5	91.0	90.0	89.0
John Deere 7020 Dsl. w/cab	1063	87.0	97.0	96.0	96.5	92.5
John Deere 4620 P.S. Dsl. w/cab	1064	86.7	94.5	95.0	96.5	92.5
Allis-Chalmers 210 Dsl.	1065	90.5	97.0	97.5	97.5	92.5
Case 1070 P.S. Dsl. w/cab	1066	89.8	90.5	92.5	91.0	88.0
Case 1070 Man Dsl. w/cab	1067	90.0	88.5	89.0	90.5	89.0
Case 970 P.S. Dsl. w/cab	1068	89.0	91.0	91.0	90.5	90.0
Minn. Moline G1350 Dsl.	1069	86.6	99.0	98.0	97.0	92.0
Minn. Mo. A4T-1600 Dsl. w/cab	1070	94.2	87.5	87.0	86.0	85.0

Table III. Continued

<i>Tractor name</i>	<i>Test No.</i>	<i>Bystander sound level</i>	<i>Max. available power</i>	<i>75% of pull</i>	<i>50% of pull</i>	<i>50% of pull (reduced engine speed)</i>
Kubota L210 Dsl.	1071	80.0	96.5	95.5	95.5	-----
Kubota L260 Dsl.	1072	83.0	99.0	97.5	96.0	90.0
John Deere 4620 S. R. Dsl. w/cab	1073	86.2	93.0	93.0	93.4	92.0
Deutz 8006 Dsl.	1074	84.6	98.5	98.0	96.5	93.5
Deutz 4006 Dsl.	1075	81.0	94.0	93.5	91.5	88.5
Case 870 P.S. Dsl. w/cab	1076	86.5	88.0	88.5	89.5	87.5
Case 870 Man. Dsl. w/cab	1077	87.0	88.0	88.5	89.5	89.5
Case 970 Man. Dsl. w/cab	1078	88.5	88.0	88.5	88.5	88.0
Steiger Bearcat w/cab	1079	92.5	89.5	90.5	91.5	86.0
International 1466 w/cab deluxe	1080	85.5	88.5	87.0	87.5	85.0
International 1066 w/cab deluxe	1081	86.0	85.5	86.5	87.0	85.0
International 966 w/cab deluxe	1082	88.5	85.5	87.0	88.0	83.5
International 1066 Hydro. w/cabdlx	1083	90.0	91.5	89.5	90.5	88.0
John Deere 2030 Gas	1084	84.0	94.5	94.5	94.5	88.5
John Deere 2030 Dsl.	1085	86.5	97.0	97.0	96.5	90.5
Massey Ferguson 1500 w/cab	1086	91.0	84.5	88.5	88.5	83.5
Massey Ferguson 1800 w/cab	1087	92.0	88.5	89.5	90.5	83.5
Case 770 Manual Dsl. w/cab	1088	87.0	86.5	88.5	88.5	87.5
Case 770 P.S. Dsl. w/cab	1089	85.5	86.5	88.0	87.5	85.0
Deutz D60 06 Dsl.	1091	87.5	96.0	95.0	93.5	90.5
Deutz D130 06 Dsl.	1092	88.0	98.0	97.0	96.0	95.5
Ford 7000 Dsl.	1093	88.5	96.5	97.0	97.5	94.0
International 766 Gas w/cab	1094	84.5	85.0	86.0	84.5	85.5
International 966 Hydro Dsl. w/cab	1095	92.0	89.0	90.0	87.5	86.0
International 454 Gas	1096	80.0	93.0	92.0	92.0	91.0
International 454 Dsl.	1097	84.5	94.5	94.5	93.5	92.0
International Utility 574 Gas	1098	81.5	93.5	94.5	92.0	90.0
International Utility 574 Dsl.	1099	86.0	95.0	96.5	95.0	88.0
John Deere 6030 Dsl. w/cab	1100	86.0	87.0	86.5	86.5	85.0
John Deere 7530 Dsl. w/cab	1101	85.0	88.0	87.5	88.5	85.0
Case 1370 Dsl. w/cab	1102	90.0	88.0	89.0	88.0	82.5
Case 1270 Dsl. w/cab	1103	89.0	88.0	88.5	88.0	85.5
Deutz D5506 Dsl.	1104	85.5	95.5	95.5	94.5	90.5
Deutz D130 06 Dsl.	1105	89.5	100.5	99.5	100.0	94.5
Satoh S650G Gas	1106	83.0	96.5	95.5	95.0	-----
Long R9500 Special Dsl.	1107	89.5	97.5	99.0	98.5	92.5
Long U445 Dsl.	1108	85.5	101.5	98.5	96.5	92.0
Long U550 Dsl.	1109	87.0	98.5	96.0	95.0	91.0

**Table III. Continued**

<i>Tractor name</i>	<i>Test No.</i>	<i>Bystander sound level</i>	<i>Max. available power</i>	<i>75% of pull</i>	<i>50% of pull</i>	<i>50% of pull (reduced engine speed)</i>
John Deere 4430 Q. R. Dsl. w/cab	1110	87.5	82.5	82.5	82.0	82.0
John Deere 4030 Q. R. Dsl. w/cab	1111	90.5	82.0	83.5	83.0	79.5
John Deere 4230 Q.R. Dsl. w/cab	1112	91.0	83.0	82.5	81.5	81.0
John Deere 4630 P.S. Dsl. w/cab	1113	88.5	82.5	83.0	83.0	82.0
Case 2470 Dsl. w/cab	1114	90.0	83.0	85.0	83.5	82.0
International 354 Gas	1115	82.5	90.5	91.0	89.5	87.0
International 4166 Dsl. w/cab	1116	89.5	89.5	89.0	89.0	92.0
International 766 Dsl. w/cab	1117	91.0	89.0	88.5	88.5	85.5
International 1468 Dsl. w/cab	1118	91.5	91.5	92.5	92.0	88.5
Allis-Chalmers 7030 Dsl. w/cab	1119	88.0	79.5	79.5	79.5	77.0
Allis-Chalmers 7050 Dsl. w/cab	1120	89.5	79.5	80.5	80.0	76.0
Ford 8600 Dsl. w/cab	1121	85.5	82.5	82.0	85.0	82.0
Ford 9600 Dsl. w/cab	1122	84.5	84.0	85.0	85.0	82.5
International 966 Dsl. w/cab	1123	92.0	88.5	89.0	88.5	87.5
International 1066 Dsl. w/cab	1124	86.5	88.0	88.5	88.5	89.5
International 1466 Dsl. w/cab	1125	87.7	91.0	93.5	91.0	89.5
International 464 Gas	1126	81.0	95.0	95.0	93.5	91.5
International 464 Dsl.	1127	85.0	99.5	98.5	98.5	92.5
International 674 Gas	1128	82.0	98.0	100.0	98.0	91.5
International 674 Dsl.	1129	87.0	101.0	100.0	99.5	92.5
Deutz D13006 Dsl. w/cab	1130	84.5	92.0	89.0	88.5	87.0
Deutz D4506 Dsl.	1131	85.5	93.0	93.5	92.0	91.5
Massey-Ferg. 1105 Dsl. w/cab	1132	87.0	85.0	82.5	83.0	81.0
Massey-Ferg. 1085 Dsl. w/cab	1133	87.5	85.0	83.5	82.5	79.5
Massey-Ferg. 1155 Dsl. w/cab	1134	91.5	84.5	84.5	85.0	87.5
Massey-Ferg. 1135 Dsl. w/cab	1135	86.5	82.5	82.5	82.5	80.5
David Brown 995 Dsl.	1136	85.5	97.0	96.0	95.5	92.5
David Brown 885 Dsl.	1137	83.5	95.5	94.5	93.5	91.0
David Brown 1212 Dsl.	1138	89.0	98.0	97.5	97.0	94.5
Belarus MTZ 80 Dsl. w/cab	1139	88.0	86.5	86.5	86.5	84.5
Oliver 2255 Dsl. w/cab	1140	91.5	88.0	89.0	87.0	84.5
Minn. Moline G1355 Dsl. w/cab	1141	89.5	87.0	87.0	86.0	83.0
David Brown 1210 Dsl.	1142	89.0	98.0	98.0	97.5	95.0
David Brown 885 Gas	1143	80.5	96.5	94.5	93.0	91.0
David Brown 990 Dsl.	1144	88.5	97.0	96.0	95.0	93.0
Kubota L225 Dsl.	1145	80.5	93.5	93.0	91.5	90.0
John Deere 830 Dsl.	1146	85.5	97.0	97.0	96.5	92.5
John Deere 1530 Dsl.	1147	86.5	97.0	98.5	97.5	92.5

Table III. Continued

<i>Tractor name</i>	<i>Test No.</i>	<i>Bystander sound level</i>	<i>Max. available power</i>	<i>75% of pull</i>	<i>50% of pull</i>	<i>50% of pull (reduced engine speed)</i>
Case 1370 Dsl. w/cab	1148	88.5	81.0	81.5	84.5	79.5
Case 870 Manual Dsl. w/cab	1149	87.0	83.0	84.0	85.0	84.0
Case 870 P.S. Dsl. w/cab	1150	86.5	82.0	84.0	83.5	82.0
International 666 Dsl.	1151	89.5	93.0	94.5	94.5	91.0
International 666 Gas	1152	80.0	91.5	93.0	91.0	89.0
International 4366 Turbo Dsl. w/cab	1153	93.0	84.5	86.0	86.0	82.5
International Hydro 70 Gas	1154	89.0	100.0	98.0	96.5	92.5
International Hydro 70 Dsl.	1155	91.5	99.5	97.0	97.0	92.0
Allis-Chalmers 175 Gas	1156	80.5	91.0	91.0	88.0	87.5
John Deere 2630 Dsl.	1157	87.0	97.5	97.0	96.5	90.5
International Hydro 100 Dsl. w/cab	1158	90.0	89.5	91.5	89.5	87.5
White Field Boss 4-150 Dsl. w/cab	1159	91.5	81.0	81.0	81.0	81.0
Case 1270 Dsl. w/cab	1160	88.5	82.5	83.0	83.0	80.5
Minneapolis-Moline G955 Dsl. w/cab	1161	86.5	94.5	95.0	93.5	91.0
Steiger Bearcat II Dsl. w/cab	1162	93.5	86.5	86.5	85.0	81.5
Long 900 Dsl.	1163	90.0	100.0	100.0	98.5	95.5
Case 2670 Dsl. w/cab	1165	90.0	84.5	83.5	83.0	82.5
Allis-Chalmers 7040 Dsl. w/cab	1166	89.0	78.0	78.5	79.0	76.0
Allis-Chalmers 7060 Dsl. w/cab	1167	88.0	78.5	78.5	79.0	76.5
Allis-Chalmers 7080 Dsl. w/cab	1168	91.0	81.5	83.0	83.5	79.0
Steiger Tiger II Dsl. w/cab	1169	98.0	87.0	86.0	85.5	82.0
Steiger Cougar II Dsl. w/cab	1170	96.0	80.0	81.5	82.5	76.0
Massey-Ferg. MF285 Dsl. Std. MP	1171	89.0	98.5	97.5	96.5	93.5
Massey-Ferg. MF1505 Dsl. w/cab 4W	1172	92.5	85.5	85.5	85.5	83.5
Massey-Ferg. MF1805 Dsl. w/cab 4W	1173	93.0	86.5	86.5	86.5	82.5
International 1566 Turbo Dsl. w/cab	1174	87.5	90.0	88.5	87.5	87.0
International 1568 Dsl. w/cab	1175	90.0	91.5	90.0	91.0	89.0
Leyland 255 Dsl. w/cab	1176	82.5	97.5	97.5	97.5	96.0
Leyland 245 Dsl. w/cab	1177	83.5	100.0	99.5	98.5	97.0
Leyland 2100 Dsl. w/cab	1178	90.5	93.5	91.5	90.5	88.5
John Deere 8430 Dsl. w/cab 4W	1179	87.0	80.0	80.5	82.0	77.0
John Deere 8630 Dsl. w/cab 4W	1180	88.5	81.5	82.5	82.5	79.0
White Field Boss 2-105 Dsl. w/cab	1181	87.5	88.5	88.5	87.5	88.0
White Field Boss 2-150 Dsl. w/cab	1182	89.0	91.0	90.0	90.5	90.5

Table III. Continued

<i>Tractor name</i>	<i>Test No.</i>	<i>Bystander sound level</i>	<i>Max. available power</i>	<i>75% of pull</i>	<i>50% of pull</i>	<i>50% of pull (reduced engine speed)</i>
Belarus 250 Dsl. w/cab	1183	82.5	87.5	85.0	85.0	85.5
White Field Boss						
4-180 Dsl. w/cab 4W	1184	95.5	81.5	83.5	82.5	82.5
Same Panter 4WD Dsl. w/cab	1185	88.0	96.5	96.0	97.0	92.5
Same Buffalo 4WD Dsl.	1186	88.0	95.5	97.5	97.5	95.0
Massey-Ferg. MF 235 Dsl.	1187	91.0	98.5	98.5	97.0	96.0
Massey-Ferg. MF 265 Dsl.	1188	87.5	95.5	96.0	96.0	93.0
Massey-Ferg. MF 255 Dsl.	1189	85.0	95.5	95.5	94.0	90.5
Massey-Ferg. MF 255 Gas	1190	85.0	95.0	94.0	93.0	91.5
John Deere 2040 Dsl.	1191	87.0	97.0	96.5	96.5	92.5
John Deere 2240 Dsl.	1192	88.0	97.5	98.0	97.5	92.0
Massey-Ferg. MF 275 Dsl.	1193	89.0	97.5	98.5	96.5	92.0
Massey-Ferg. MF 235 Gas	1194	84.5	97.5	94.5	92.5	92.5
Allis-Chalmers 7000 P.S. Dsl. w/cab	1195	88.5	79.5	79.0	79.5	78.0
Allis-Chalmers 7040 P.S. Dsl. w/cab	1196	89.5	79.5	79.0	79.0	76.5
Allis-Chalmers 7060 P.S. Dsl. w/cab	1197	89.5	79.5	80.0	80.0	79.5
Kubota L 285 Dsl.	1198	79.0	91.0	89.5	88.0	85.5
Yanmar YM 240 Dsl.	1199	78.0	90.5	88.5	88.5	84.5
Belarus T 25A Dsl. w/cab	1200	85.5	89.5	88.0	89.0	88.0
Ford 5600 Dsl., 8-Speed	1201	88.5	96.0	96.5	96.5	92.5
Ford 4100 Dsl., 8-Speed	1202	88.0	96.0	97.5	95.5	93.5
Ford 3600 Dsl., 6-Speed	1203	87.5	94.0	93.5	93.0	90.0
Ford 2600 Dsl., 6-Speed	1204	87.5	94.5	94.0	94.5	91.0
Ford 2600 Gas, 6-Speed	1206	78.0	92.0	90.0	89.5	87.0
Ford 2600 Gas, 8-Speed	1207	76.0	91.5	90.5	89.5	87.5
Ford 3600 Gas, 6-Speed	1208	80.0	91.5	91.5	90.0	88.5
Case 1410 Manual Dsl. (David Brown 1410 Synchronesh)	1209	86.0	97.0	96.0	94.5	92.5
Case 1410 P.S. Dsl. (David Brown 1412 Hydra-shift)	1210	86.0	95.0	94.5	94.5	90.5
Case MB 4/94 4WD Dsl. w/cab	1211	85.5	86.5	86.0	88.0	82.5
White Field Boss 2-70 Dsl.	1212	90.5	100.5	99.0	99.0	97.0
White Field Boss 2-85 Dsl. w/cab	1213	89.5	85.5	84.5	84.5	83.5
Massey-Ferg. 230 Dsl.	1214	84.5	96.0	95.0	94.0	90.0
Massey-Ferg. 230 Gas	1215	81.0	92.5	91.0	90.0	87.0
International 4568 4WD Dsl. w/cab	1216	100.5	82.0	82.0	82.0	79.0
Ford 6600 Dsl., 8-Speed	1217	90.5	96.5	96.5	96.5	92.0
Case 1570 Dsl. w/cab	1218	90.0	84.5	84.5	84.0	81.5
Deutz 6206 Dsl. w/canopy	1219	86.5	99.0	99.0	96.0	91.5
Deutz 6806 Dsl., w/canopy	1220	89.5	99.0	99.5	98.5	93.0
Ford 3600 Dsl., 8-Speed w/cab	1221	85.0	82.5	83.5	83.5	81.5



Table III. Continued

<i>Tractor name</i>	<i>Test No.</i>	<i>Bystander sound level</i>	<i>Max. available power</i>	<i>75% of pull</i>	<i>50% of pull</i>	<i>50% of pull (reduced engine speed)</i>
Ford 2600 Dsl., 8-Speed w/cab	1222	88.0	82.0	81.0	81.5	80.0
Ford 4600 Dsl., 8-Speed w/cab	1223	90.5	84.0	83.0	84.0	83.5
Ford 6600 Dsl., 16-Speed w/cab	1224	90.5	82.0	83.5	85.5	80.0
Ford 7600 Dsl., 16-Speed w/cab	1225	86.0	84.5	85.0	84.5	80.5
Ford 3600 Gas, 8-Speed w/cab	1226	80.5	80.5	80.5	80.5	77.5
Ford 5600 Dsl., 16-Speed w/cab	1227	88.0	82.5	83.5	84.5	80.5
Ford 1600 Dsl., 9-Speed	1228	81.5	95.5	93.0	92.5	88.5
Allis-Chalmers 7580 4WD Dsl. w/cab	1229	92.5	79.0	79.5	78.0	76.0
Allis-Chalmers 5040 Dsl.	1230	89.0	96.5	95.5	95.5	90.5
White 2-50 Field Boss Dsl.	1231	87.0	99.5	98.5	97.0	95.0
White 2-60 Field Boss Dsl.	1232	86.0	98.5	96.0	96.0	92.5
Steiger Cougar III ST-310 Dsl. w/cab	1233	103.0	80.0	80.5	81.5	78.5
Steiger Panther III ST-310 Dsl. w/cab	1235	105.0	81.0	81.0	83.0	79.0
Steiger Panther III ST-325 Dsl. w/cab	1236	101.0	80.5	80.5	80.0	77.0
Steiger Wildcat III ST-210 & RC-210 Dsl. w/cab	1237	92.0	84.0	86.0	85.0	81.0
Steiger Cougar III ST-270 Dsl. w/cab	1238	100.0	80.0	80.0	80.5	77.0
Steiger III ST-250 Dsl. w/cab	1239	99.0	78.5	79.0	81.0	76.5
Allis-Chalmers 5050 Dsl.	1240	89.5	99.5	98.0	96.5	93.5
Case 2870 Dsl. w/cab	1241	92.0	82.0	81.5	82.0	79.0
Ford 7700 Dsl., 16-Speed w/cab	1242	86.5	83.5	84.0	83.5	83.5
Ford 9700 Dsl., 16-Speed w/cab	1243	89.0	81.5	82.5	83.0	80.0
Ford 6700 Dsl., 16-Speed w/cab	1244	87.0	82.0	83.0	83.0	82.0
Ford 8700 Dsl., 16-Speed w/cab	1245	89.0	81.0	82.5	82.0	79.5
Steiger Bearcat III ST-220 Dsl. w/cab	1246	90.5	79.0	81.5	80.5	76.5
International 1086 Dsl. w/cab	1247	86.0	78.5	78.5	80.5	77.0
International 1586 Dsl. w/cab	1248	87.5	78.5	79.0	79.0	79.5
John Deere 2840 Dsl.	1249	88.5	95.0	94.5	94.5	90.5
Massey Ferguson 255 Dsl. 12-Speed	1250	88.0	96.0	96.0	94.5	92.0

Table III. Continued

<i>Tractor name</i>	<i>Test No.</i>	<i>Bystander sound level</i>	<i>Max. available power</i>	<i>75% of pull</i>	<i>50% of pull</i>	<i>50% of pull (reduced engine speed)</i>
Massey Ferguson 245 Dsl.	1251	86.0	97.0	96.5	96.5	92.0
Massey Ferguson 245 Gas	1252	81.0	95.5	95.5	94.5	93.5
International 886 Dsl. w/cab	1254	90.0	80.0	81.0	81.0	79.0
International 986 Dsl. w/cab	1255	89.5	80.0	81.0	81.5	81.0
International 4386 Dsl. w/cab	1256	96.5	82.0	82.0	82.5	78.0
International Hydro 186 Dsl. w/cab	1257	92.5	82.5	83.0	82.5	80.5
Massey-Ferguson 2805 Dsl. 24-Speed w/cab	1258	94.5	81.0	81.0	81.0	78.5
Allis-Chalmers 7020 Power Shift Dsl. w/cab	1259	89.5	78.0	78.5	77.0	76.5
Allis-Chalmers 7020 Power Director Dsl. w/cab	1260	89.0	77.5	77.0	76.5	74.5
Allis-Chalmers 7045 Power Director Dsl. w/cab	1261	88.5	78.0	77.5	76.5	74.0
Allis-Chalmers 8550 Dsl. w/cab	1262	94.5	84.5	85.0	84.5	80.5
John Deere 4840 Dsl. w/cab	1263	90.0	80.0	79.0	79.5	75.5
John Deere 4640 Dsl. w/cab	1264	88.0	77.5	77.5	77.5	77.0
John Deere 4440 Dsl. w/cab	1265	88.0	78.0	78.0	79.0	75.5
John Deere 4240 Dsl. w/cab	1266	92.0	79.5	79.0	78.5	75.5
John Deere 4040 Dsl. w/cab	1267	92.0	79.5	79.0	79.0	76.5
SAME Tiger 100 Dsl. w/cab	1268	90.5	89.5	90.5	90.5	84.5
Lamborghini 1056 Dsl. w/cab	1269	91.0	88.0	89.5	89.5	82.5
Allis Chalmers 5020 Dsl. w/o cab	1270	79.0	94.5	92.5	90.5	90.5
Allis Chalmers 5030 Dsl. w/o cab	1271	82.0	94.0	92.5	91.0	88.0
Steiger Bearcat III Dsl. w/cab	1272	99.5	80.5	80.0	80.0	76.5
Steiger Cougar III Dsl. w/o cab	1273	100.5	78.5	78.0	77.5	75.5
Steiger Panther III Dsl. w/cab	1274	102.0	80.5	79.5	80.5	77.0
White 2-135 Dsl. w/cab	1275	88.5	80.0	80.5	80.0	79.5
White 2- 55 Dsl. w/cab	1276	87.5	80.5	79.5	80.0	79.5
International Harvester 284 Gas w/o cab	1277	79.5	94.0	93.5	90.0	90.5
Massey Ferguson 2775 Dsl. w/cab	1278	96.0	81.5	82.0	81.0	80.5
John Deere 850 Dsl. w/o cab	1280	77.0	89.0	88.5	88.0	83.5
John Deere 950 Dsl. w/o cab	1281	77.0	89.0	89.0	88.5	85.5
Steiger Tiger III Dsl. w/cab	1282	96.0	76.5	76.5	76.5	75.0
Kubota L245 Dsl. w/o cab	1283	80.0	95.5	93.5	91.0	89.5
Kubota L245 Dsl. w/o cab	1284	80.0	92.5	91.5	91.5	87.5
Kubota L185 w/o cab	1285	79.0	93.5	95.0	90.0	87.5
Kubota L185 Dsl. w/o cab	1286	79.0	91.0	90.5	89.0	85.5
White 2-180 Dsl. w/cab	1287	93.5	81.0	82.5	83.5	79.0
Ford FW 30 Dsl. w/cab	1288	95.5	76.5	77.5	78.0	74.5
Ford FW 60 Dsl. w/cab	1289	100.5	80.5	81.0	79.5	78.0
Ford FW 40 Dsl. w/cab	1290	96.0	79.0	80.5	81.0	76.0

Table III. Continued

Tractor name	Test No.	Bystander sound level	Max. available power	75% of pull	50% of pull	50% of pull (reduced engine speed)
Ford FW 20 Dsl. w/cab	1291	92.5	76.0	77.5	77.0	74.0
Fiat 580 Dsl. w/cab	1292	92.5	85.0	84.5	84.0	80.0
Fiat 420 Dsl. w/o cab	1293	88.0	98.0	95.5	94.5	91.5
Fiat 780 Dsl. w/cab	1294	89.5	84.0	84.0	83.5	81.0
J.I. Case 2090 Dsl. w/cab	1295	88.5	78.0	77.5	78.0	73.0
J.I. Case 2290 Dsl. w/o cab	1296	87.0	86.0	85.5	87.0	84.5
J.I. Case 2290 Dsl. w/cab	1297	89.0	78.0	76.5	76.0	74.0
Long 360 Dsl. w/o cab	1298	88.0	100.0	98.0	97.0	91.5
Ford TW 30 Dsl. w/cab	1299	90.5	80.0	82.0	81.5	78.5
SAME Tiger 100 Dsl. w/cab	1268	90.5	89.5	90.5	90.5	84.5
Lamborghini 1056 Dsl. w/cab	1269	91.0	88.0	89.5	89.5	82.5
Allis Chalmers 5020 Dsl. w/o cab	1270	79.0	94.5	92.5	90.5	90.5
Allis Chalmers 5030 Dsl. w/o cab	1271	82.0	94.0	92.5	91.0	88.0
Steiger Bearcat III Dsl. w/cab	1272	99.5	80.5	80.0	80.0	76.5
Steiger Cougar III Dsl. w/o cab	1273	100.5	78.5	78.0	77.5	75.5
Steiger Panther III Dsl. w/cab	1274	102.0	80.5	79.5	80.5	77.0
White 2-135 Dsl. w/cab	1275	88.5	80.0	80.5	80.0	79.5
White 2-155 Dsl. w/cab	1276	87.5	80.5	79.5	80.0	79.5
International Harvester 284 Gas. w/o cab	1277	79.5	94.0	93.5	90.0	90.5
Massey Ferguson 2775 Dsl. w/cab	1278	96.0	81.5	82.0	81.0	80.5
John Deere 850 Dsl. w/o cab	1280	77.0	89.0	88.5	88.0	83.5
John Deere 950 Dsl. w/o cab	1281	77.0	89.0	89.0	88.5	85.5
Steiger Tiger III Dsl. w/cab	1282	96.0	76.5	76.5	76.5	75.0
Kubota L245 Dsl. w/o cab	1283	80.0	95.5	93.5	91.0	89.5
Kubota L245 Dsl. w/o cab	1284	80.0	92.5	91.5	91.5	87.5
Kubota L185 w/o cab	1285	79.0	93.5	95.0	90.0	87.5
Kubota L185 Dsl. w/o cab	1286	79.0	91.0	90.5	89.0	85.5
White 2-180 Dsl. w/cab	1287	93.5	81.0	82.5	83.5	79.0
Ford FW 30 Dsl. w/cab	1288	95.5	76.5	77.5	78.0	74.5
Ford FW 60 Dsl. w/cab	1289	100.5	80.5	81.0	79.5	78.0
Ford FW 40 Dsl. w/cab	1290	96.0	79.0	80.5	81.0	76.0
Ford FW 20 Dsl. w/cab	1291	92.5	76.0	77.5	77.0	74.0
Fiat 580 Dsl. w/cab	1292	92.5	85.0	84.5	84.0	80.0
Fiat 420 Dsl. w/o cab	1293	88.0	98.0	95.5	94.5	91.5
Fiat 780 Dsl. w/cab	1294	89.5	84.0	84.0	83.5	81.0
J.I. Case 2090 Dsl. w/cab	1295	88.5	78.0	77.5	78.0	73.0
J.I. Case 2290 Dsl. w/o cab	1296	87.0	86.0	85.5	87.0	84.5
J.I. Case 2290 Dsl. w/cab	1297	89.0	78.0	76.5	76.0	74.0
Long 360 Dsl. w/o cab	1298	88.0	100.0	98.0	97.0	91.5
Ford TW 30 Dsl. w/cab	1299	90.5	80.0	82.0	81.5	78.5
J.I. Case 4490 Dsl. w/cab	1328	84.0	77.5	77.5	77.5	77.5
J.I. Case 4690 Dsl. w/cab	1329	86.0	78.0	78.0	77.5	76.0
J.I. Case 4890 Dsl. w/cab	1330	88.5	77.5	78.0	77.0	76.0
Versatile 555 Dsl. w/cab (2850RPM)	1331	89.0	82.5	82.5	86.0	79.5

**Table III. Continued**

<i>Tractor name</i>	<i>Test No.</i>	<i>Bystander sound level</i>	<i>Max. available power</i>	<i>75% of pull</i>	<i>50% of pull</i>	<i>50% of pull (reduced engine speed)</i>
Versatile 875 Dsl. w/cab (2100RPM)	1332	91.0	82.0	82.5	82.5	81.5
Belarus 1500 Dsl. w/cab	1333	94.5	87.0	86.5	86.5	83.5
Belarus 7100 Dsl. w/cab	1334	94.0	90.5	90.0	91.0	88.0
Versatile 895 Dsl. 12-speed w/cab	1335	91.0	83.5	84.0	83.0	81.5
International 686 Dsl. 10-speed w/o cab	1336	92.0	96.0	96.5	95.5	94.0
International Hydro 86 Dsl. Hydrostatic w/o cab	1337	90.5	98.0	97.5	96.0	95.0
International 88.6 Dsl. 16-speed w/cab	1338	88.0	80.0	79.0	79.5	80.0
Leyland 482 Dsl. Also Leyland 282 w/cab	1340	90.5	85.0	85.5	87.5	80.0
Leyland 472 Dsl. Also Leyland 272 Dsl. 9-speed w/cab	1341	87.5	84.5	91.0	85.5	80.0
Massey Ferguson 4800 Dsl. 18-speed Also 12-speed w/cab	1342	94.0	82.0	81.5	81.5	80.0
Massey Ferguson 4840 Dsl. 18-speed Also 12-speed w/cab	1343	95.5	84.5	86.0	85.0	80.0
Massey Ferguson 4880 Dsl. 18-speed Also 12-speed w/cab	1344	91.5	81.5	83.0	83.5	80.5
Allis Chalmers 7010 Power Director Dsl. 20-speed w/cab	1345	87.5	77.5	77.5	76.5	75.0
Allis Chalmers 7010 Power Shift Dsl. 12-speed w/cab	1346	88.0	78.0	77.5	77.0	75.0
Satoh Mitsubishi Stallion 5750 DD Also 5750 D9-speed w/o cab	1347	84.5	99.0	97.0	98.5	92.5
Kubota M4500DT Dsl. Also Kubota M4500 Dsl. 16-speed w/o cab	1348	79.5	90.5	90.0	90.0	88.0
Kubota M7500DT Dsl. Also Kubota M7500 Dsl. 16-speed w/o cab	1349	89.0	96.0	95.5	94.0	90.0
John Deere 2040 Dsl. 8-speed w/o cab	1350	85.5	95.5	95.0	95.0	91.0
John Deere 2940 Dsl. 16-speed w/o cab	1351	86.5	94.0	93.0	93.0	88.5
Hesston Fiat 680 DT Dsl. Also Hesston Fiat 680 Dsl. 8-speed w/cab	1352	87.0	83.0	81.5	81.5	78.5

**Table III. Continued**

<i>Tractor name</i>	<i>Test No.</i>	<i>Bystander sound level</i>	<i>Max. available power</i>	<i>75% of pull</i>	<i>50% of pull</i>	<i>50% of pull (reduced engine speed)</i>
Hesston Fiat 880 DT-5 Dsl. Also Hesston Fiat 880-5 Dsl. 12-speed w/cab	1353	88.5	87.5	85.5	84.0	80.0
Hesston Fiat 980 DT Dsl. Also Hesston Fiat 980 Dsl. 16-speed w/cab	1354	86.5	86.5	84.0	82.0	82.0
Steiger PTA-32 5 Dsl. 10-speed w/cab	1355	100.0	75.5	75.5	75.5	75.5
Versatile 835 Dsl. 12-speed w/cab	1356	89.0	81.5	83.0	83.0	78.0
John Deere 4440 Power Shift Dsl. 8-speed w/cab	1357	87.0	77.0	77.0	77.5	74.5
		85.0	93.5	93.0	93.0	89.0
John Deere 4640 Power Shift Dsl. 8-speed w/cab	1358	87.5	77.0	78.0	77.5	75.5
		86.5	94.5	95.0	96.0	90.0
John Deere 4040 Syncro Range Dsl. 8-speed w/o cab	1359	89.0	95.5	96.5	94.0	90.0
John Deere 4040 Power Shift Dsl. 8-speed w/cab	1360	90.5	78.0	77.5	77.0	75.5
		90.5	95.5	95.5	95.5	90.0
John Deere 4240 Syncro Range Dsl. 8-speed w/o cab	1361	90.5	96.0	96.0	96.5	91.0
John Deere 4240 Power Shift Dsl. 8-speed w/cab	1362	91.0	79.0	79.0	78.0	74.5
		89.5	96.5	96.5	96.5	92.0
Massey Ferguson MF205 Dsl. 6-speed w/o cab	1363	77.5	93.5	95.0	94.0	89.5
Massey Ferguson MF205-4 Dsl. 6-speed w/o cab	1364	77.0	95.5	94.0	94.5	92.0
Massey Ferguson MF210 Dsl. 12-speed w/o cab	1365	79.5	95.0	93.0	91.5	91.5
Massey Ferguson MF210-4 Dsl. 12-speed w/o cab	1366	78.0	94.0	92.5	91.0	90.0
Massey Ferguson MF220 Dsl. 12-speed w/o cab	1367	79.5	93.5	93.5	92.0	90.0
Massey Ferguson MF220-4 Dsl. 12-speed w/o cab	1368	79.0	92.5	91.5	93.0	89.5
Kubota M550DT Dsl. Also Kubota M5500 Dsl. 16-speed w/o cab	1369	83.5	94.0	94.0	93.0	90.5

Table III. Continued

Tractor name	Test No.	Bystander sound level	Max. available power	75% of pull	50% of pull	50% of pull (reduced engine speed)
Kubota L295 DT Dsl. Also Kubota L295 Dsl. 8-speed w/o cab	1370	81.5	95.5	94.0	91.5	89.5
Kubota L305 DT Dsl. Also Kubota L305 Dsl. 8-speed w/o cab	1371	81.5	93.5	91.5	91.5	89.5
Kubota L345 DT Dsl. Also L345-8-speed Dsl. w/o cab	1372	82.5	93.0	92.0	91.5	89.0
White Iseki 2-30 Dsl. 8-speed w/o cab	1373	83.0	96.5	94.5	93.5	89.0
White Iseki 2-35 Dsl. 8-speed w/o cab	1374	82.5	96.5	94.0	92.0	89.0
White 4-175 Field Boss Dsl. 18-speed w/cab	1375	94.0	81.0	81.0	80.5	77.5
International 884 Rowcrop Dsl. 16-speed w/o cab	1376	88.5	98.0	99.0	98.5	94.5
International 3788 Dsl. 12-speed w/cab	1377	88.5	80.5	80.5	80.5	78.5
J.I. Case 1190 Dsl. w/o cab, manual	1378	85.5	97.5	94.5	93.0	91.0
J.I. Case 1290 Dsl. w/o cab, manual	1379	90.0	98.0	97.5	95.5	93.5
J.I. Case 1390 Dsl. w/o cab, manual	1380	88.0	99.0	96.0	94.0	93.0
J.I. Case 1490 Dsl. w/o cab manual	1381	84.0	94.0	93.0	92.5	90.0
J.I. Case 1490 Dsl. w/cab, powershift	1382	83.0	80.5	81.5	81.0	79.0
J.I. Case 1690 Dsl. w/o cab, manual	1383	88.0	97.0	99.5	95.0	90.5
Hesston Fiat 480-8 DT Dsl. w/o cab	1385	86.5	98.0	96.5	96.0	92.0
Hesston Fiat 780 DT Dsl. w/o cab	1386	89.5	97.5	96.0	94.0	91.0
International 284 Dsl. w/o cab	1387	80.0	94.5	92.0	91.5	88.5
International 786 Dsl. w/o cab	1388	89.5	91.5	92.5	93.0	91.0
Massey Ferguson MF2775 Dsl. w/o cab	1389	96.0	102.0	101.5	101.5	99.0
Massey Ferguson MF4900 Dsl. w/cab	1391	93.5	83.5	83.0	83.0	78.5
Massey Ferguson MF184-4 Dsl. w/o cab	1392	87.0	100.5	98.5	97.0	93.5
John Deere 2040 Dsl. w/o cab	1393	85.5	95.0	94.0	95.0	88.5
John Deere 2240 Dsl. w/o cab	1394	86.0	95.5	95.5	94.0	89.0
White Iseki 2-45 Dsl. w/o cab	1395	80.5	90.0	90.5	89.5	88.5
White Iseki 2-62 Dsl. w/o cab	1396	83.0	93.5	93.0	91.5	90.0
Allis Chalmers 6060 Dsl. w/cab	1397	84.5	79.0	78.5	77.5	78.0

**Table III. Continued**

<i>Tractor name</i>	<i>Test No.</i>	<i>Bystander sound level</i>	<i>Max. available power</i>	<i>75% of pull</i>	<i>50% of pull</i>	<i>50% of pull (reduced engine speed)</i>
Allis Chalmers 6060 Dsl. w/o cab	1397	85.5	92.0	91.0	91.0	88.5
Allis Chalmers 6080 Dsl. w/cab	1398	84.5	81.0	81.5	80.0	78.0
Allis Chalmers 6080 Dsl. w/o cab	1398	80.0	93.0	92.0	91.0	89.0
Massey Ferguson MF2085 Dsl. w/o cab	1399	92.5	99.0	100.5	100.0	95.5
Big Bud 525150 Dsl. w/cab	1400	94.0	74.0	74.5	75.5	74.0
Steiger Cougar III ST-280 Dsl. w/cab	1401	103.5	79.0	79.0	79.0	78.0
Steiger Cougar III PTA 280 Dsl. w/cab	1402	104.0	75.5	75.5	75.5	74.5
Deutz DX-130 Dsl. w/cab	1404	83.5	82.5	82.0	82.0	80.0
Deutz DX-120 Dsl. w/cab	1405	88.0	85.0	84.5	85.0	80.5
Kubota L235 Dsl. w/o cab	1406	77.0	90.0	90.5	89.0	84.0
Kubota L275 Dsl. w/o cab	1407	77.0	89.5	89.0	88.5	85.0
Hesston 1380 DT Dsl. w/cab	1409	89.5	78.5	79.0	78.0	73.5
Hesston 1880 DT Dsl. w/cab	1410	88.0	81.0	80.5	79.5	75.5
Massey Ferguson MFI 54-4 Dsl. w/o cab	1411	88.5	98.5	97.0	96.5	93.0
Steiger Cougar III ST 280 Dsl. w/cab	1412	99.0	77.5	78.0	77.5	76.0
Steiger Cougar III PTA 280 Dsl. w/cab	1413	98.0	76.5	77.0	77.0	75.0
Steiger Bearcat III ST 225 Dsl. w/cab	1414	98.0	77.5	77.5	76.5	74.5
Long 510 Dsl. w/o cab	1415	89.0	100.0	98.0	96.5	93.5
Long 510 DTC Dsl. w/o cab	1416	86.5	98.5	97.0	95.5	92.0
Long 610 Dsl. w/o cab	1417	88.5	98.5	96.5	96.0	92.5
International Harvester 5088 Dsl. w/cab	1419	85.0	78.0	78.5	78.5	74.5
International Harvester 5288 Dsl. w/cab	1420	86.0	77.0	77.5	77.5	73.5
Ford 2610 (8 x 2) Dsl. w/o cab	1421	88.0	96.0	96.0	95.0	93.5
Ford 3610 (8 x 2) Dsl. w/o cab	1422	85.5	96.5	96.0	94.5	92.0
Ford 3610 (8 x 4) Dsl. w/o cab	1423	86.0	96.0	95.5	94.5	92.0
Ford 4110 (8 x 2) Dsl. w/o cab	1424	88.5	97.5	97.5	95.5	94.5
Ford 4110 (8 x 4) Dsl. w/o cab	1425	86.0	96.5	95.0	94.0	92.0
Ford 4610 (8 x 2) Dsl. w/o cab	1426	90.0	97.5	96.5	95.5	94.5
Ford 4610 (8 x 4) Dsl. w/o cab	1427	88.5	97.0	97.0	96.0	93.0
Ford 5610 (16 x 4) Dsl. w/o cab	1428	89.0	97.0	96.0	95.5	91.0
Ford 5610 (16 x 8) Dsl. w/o cab	1429	89.5	96.5	95.5	94.5	92.0
Ford 6610 (16 x 4) Dsl. w/o cab	1430	88.5	96.5	96.5	96.5	93.0
Ford 6610 (16 x 8) (Bias) Dsl. w/o cab	1431	88.5	96.0	95.5	96.0	93.0
Ford 7610 (16 x 4) Dsl. w/cab	1432	85.5	84.5	85.0	83.5	80.0
Ford 7710 (16 x 8) (Bias) Dsl. w/cab	1433	88.0	82.5	84.0	84.5	79.5

**Table III. Continued**

<i>Tractor name</i>	<i>Test No.</i>	<i>Bystander sound level</i>	<i>Max. available power</i>	<i>75% of pull</i>	<i>50% of pull</i>	<i>50% of pull (reduced engine speed)</i>
John Deere 8850 Dsl. w/cab	1434	88.5	78.0	78.0	77.0	73.0
John Deere 8650 Dsl. w/cab	1435	88.5	76.5	76.5	76.5	73.0
John Deere 8450 Dsl. w/cab	1436	87.0	77.5	77.0	76.0	73.0
John Deere 1250 Dsl. w/o cab	1437	83.5	95.5	94.5	94.0	91.5
International Harvester 3288 Dsl. w/cab	1438	86.5	79.0	80.5	80.0	77.0
International Harvester 3488 Hydro Dsl. w/cab	1439	89.5	83.5	86.5	85.0	82.0
International Harvester 3688 Dsl. w/cab	1440	89.0	80.5	82.5	80.5	77.0
International Harvester 5488 Dsl. w/cab	1441	86.5	78.0	78.5	77.0	73.0
Yanmar YM226D Dsl. w/o cab	1442	75.5	89.0	89.0	87.5	84.0
Yanmar YM276D Dsl. w/o cab	1443	77.0	90.5	90.0	92.0	90.0
Yanmar YM336D Dsl. w/o cab	1444	78.0	89.5	88.5	88.5	86.0
International Harvester 5288 Dsl. w/cab	1420	86.0	77.0	77.5	77.5	73.5
Ford 2610 (8 x 2) Dsl. w/o cab	1421	88.0	96.0	96.0	95.0	93.5
Ford 3610 (8 x 2) Dsl w/o cab.	1422	85.5	96.5	96.0	94.5	92.0
Ford 3610 (8 x 4) Dsl. w/o cab	1423	86.0	96.0	95.5	94.5	92.0
Ford 41 10 (8 x 2) Dsl. w/o cab	1424	88.5	97.5	97.5	95.5	94.5
Ford 41 10 (8 x 4) Dsl. w/o cab	1425	86.0	96.5	95.0	94.0	92.0
Ford 4610 (8 x 2) Dsl. w/o cab	1426	90.0	97.5	96.5	95.5	94.5
Ford 4610 (8 x 4) Dsl. w/o cab	1427	88.5	97.0	97.0	96.0	93.0
Ford 5610 (16 x 4) Dsl. w/o cab	1428	89.0	97.0	96.0	95.5	91.0
Ford 5610 (16 x 8) Dsl. w/o cab	1429	89.5	96.5	95.5	94.5	92.0
Ford 6610 (16 x 4) Dsl. w/o cab	1430	88.5	96.5	96.5	96.5	93.0
Ford 6610 (16 x 8) (Bias) Dsl. w/o cab	1431	88.5	96.0	95.5	96.0	93.0
Ford 7610 (16 x 4) Dsl. w/cab	1432	85.5	84.5	85.0	83.5	80.0
Ford 7710 (16 x 8) (Bias) Dsl. w/cab	1433	88.0	82.5	84.0	84.5	79.5
John Deere 8850 Dsl. w/cab	1434	88.5	78.0	78.0	77.0	73.0
John Deere 8650 Dsl. w/cab	1435	88.5	76.5	76.5	76.5	73.0
John Deere 8450 Dsl. w/cab	1436	87.0	77.5	77.0	76.0	73.0
John Deere 1250 Dsl. w/cab	1437	83.5	95.5	94.5	94.0	91.5
International Harvester 3288 Dsl. w/cab	1438	86.5	79.0	80.5	80.0	77.0
International Harvester 3488 Hydro Dsl. w/cab	1439	89.5	83.5	86.5	85.0	82.0
International Harvester 3688 Dsl. w/cab	1440	89.0	80.5	82.5	80.5	77.0
International Harvester 5488 Dsl. w/cab	1441	86.5	78.0	78.5	77.0	73.0
Yanmar YM226D Dsl. w/o cab	1442	75.5	89.0	89.0	87.5	84.0
Yanmar YM276D Dsl. w/o cab	1443	77.0	90.5	90.0	92.0	90.0
Yanmar YM336D Dsl. w/o cab	1444	78.0	89.5	88.5	88.5	86.0
White 2-55 Dsl. w/o cab	1466	85.8	91.0	91.0	91.5	88.0
White 2-65 Dsl. w/o cab	1467	86.0	94.0	94.0	93.5	89.5



Table III. Continued

<i>Tractor name</i>	<i>Test No.</i>	<i>Bystander sound level</i>	<i>Max. available power</i>	<i>75% of pull</i>	<i>50% of pull</i>	<i>50% of pull (reduced engine speed)</i>
White 2-110 Dsl. w/o cab	1468	87.5	79.0	79.0	78.0	77.5
John Deere 2150 Dsl. w/o cab	1469	85.5	93.0	93.0	92.0	89.5
John Deere 2350 Dsl. w/o cab	1470	86.5	94.5	93.5	93.0	88.5
John Deere 2550 Dsl. w/o cab	1471	86.0	95.5	95.0	93.5	89.5
John Deere 2750 Dsl. w/o cab	1472	85.0	93.0	93.5	93.5	89.5
John Deere 2950 Dsl. w/ cab	1473	88.0	76.0	76.0	75.5	70.0
John Deere 4050 Dsl. w/cab	1474	89.0	74.0	74.0	73.5	71.5
John Deere 4250 Dsl. w/cab	1475	87.0	74.0	73.5	74.0	72.0
John Deere 4450 Dsl. w/cab	1476	86.5	73.5	73.5	73.0	71.5
John Deere 4650 Dsl. w/cab	1477	87.5	73.0	73.5	73.5	72.0
Massey-Ferguson 254 Dsl. w/o cab	1478	86.0	98.0	98.0	97.0	94.5
Massey-Ferguson 274 Dsl. w/o cab	1479	87.0	99.5	98.5	98.0	95.5
Massey-Ferguson 294 Dsl. w/o cab	1480	87.5	100.0	100.5	98.5	97.5
Massey-Ferguson 2640 Dsl. w/cab	1481	90.5	79.0	80.0	79.5	76.5
Versatile 835 Dsl. w/cab	1482	88.5	82.5	82.5	83.0	81.0
Versatile 875 Dsl. w/cab	1483	89.0	82.5	82.5	81.5	79.0
Hesston-Fiat 466 Dsl. w/o cab	1484	86.5	96.0	95.5	94.5	90.5
Hesston-Fiat 666 Dsl. w/o cab	1485	85.5	93.5	95.0	94.5	90.5
White 2-75 Dsl. w/o cab	1486	84.5	94.5	95.0	95.0	92.0
White 2-88 Dsl. w/cab	1487	88.0	75.5	75.5	74.0	73.5
Ford 2910 Dsl. w/o cab	1491	85.0	96.0	95.5	93.5	92.0
Ford 2910 Dsl. w/o cab	1492	86.0	94.5	95.0	94.0	91.5
Ford 3910 Dsl. w/o cab	1493	87.0	95.5	96.0	94.5	93.5
Ford 3910 Dsl. w/o cab	1494	86.0	95.5	94.5	93.5	92.5
Kubota M4050 DT Dsl. w/o cab	1495	80.5	92.5	93.0	93.0	88.5
Kubota M4950 DT Dsl. w/o cab	1496	81.5	93.5	93.5	94.5	87.5
Kubota M5950 DT Dsl. w/o cab	1497	87.0	97.5	97.0	96.5	91.0
Kubota M6950 DT Dsl. w/o cab	1498	87.0	96.5	96.0	94.0	88.5
Kubota M7950 DT Dsl. w/o cab	1499	88.0	97.5	96.5	94.5	90.5
Ford 1510 Dsl. w/o cab	1500	80.5	91.0	91.0	90.5	86.0
Ford 1510 Dsl. w/o cab	1501	81.0	91.5	91.5	90.5	85.5
Ford 1710 Dsl. w/o cab	1502	80.0	90.5	90.5	90.5	86.5
Ford 1710 Dsl. w/o cab	1503	80.0	91.0	91.0	90.0	86.5
John Deere 750 Dsl. w/o cab	1504	75.5	89.5	88.5	88.0	85.5
John Deere 1450 Dsl. w/o cab	1505	87.0	94.5	95.5	94.0	90.0
John Deere 1650 Dsl. w/o cab	1506	86.5	93.5	92.5	92.5	90.5
Ford 1910 Dsl. w/o cab	1507	82.5	91.5	91.0	91.0	86.0
Ford 1910 Dsl. w/o cab	1508	82.0	91.5	90.5	89.5	85.0
Ford 2110 Dsl. w/o cab	1509	82.0	90.5	91.0	90.5	84.5
Ford 2110 Dsl. w/o cab	1510	82.5	92.0	91.5	92.0	85.5
Massey-Ferguson 3505 Dsl. w/cab	1511	90.5	80.0	81.5	80.5	77.0
Massey Ferguson 3525 Dsl. w/cab	1512	89.0	81.5	80.5	80.0	70.5

Table III. Continued

<i>Tractor name</i>	<i>Test No.</i>	<i>Bystander sound level</i>	<i>Max. available power</i>	<i>75% of pull</i>	<i>50% of pull</i>	<i>50% of pull (reduced engine speed)</i>
Massey-Ferguson 3545						
Dsl. w/cab	1513	88.0	82.5	81.0	82.5	78.0
Ford TW-5 Dsl. w/cab	1514	90.5	81.0	81.0	81.0	80.0
Ford TW-1 5 Dsl. w/cab	1515	87.5	79.0	79.0	79.0	77.0
Ford TW-25 Dsl. w/cab	1516	89.5	81.0	82.5	82.5	78.5
Ford TW-35 Dsl. w/cab	1517	91.5	82.5	81.0	81.0	80.0
Versatile 250 Dsl. w/cab	1518	88.0	78.5	79.0	79.0	76.0
Massey-Ferguson 240						
Dsl. w/o cab	1519	85.0	95.5	94.0	93.5	91.0
Massey-Ferguson 250						
Dsl. w/o cab	1520	85.5	95.5	96.0	95.0	91.0
Massey-Ferguson 270						
Dsl. w/o cab	1521	86.5	98.5	94.0	95.0	91.5
Massey-Ferguson 290						
Dsl. w/o cab	1522	89.0	97.5	96.5	95.5	93.0
Massey-Ferguson 298						
Dsl. w/o cab	1523	90.0	100.0	99.0	97.5	97.0
Massey-Ferguson 298						
Dsl. w/o cab	1524	89.0	99.5	97.5	96.5	95.5
Case 2094 Dsl. w/cab	1525	88.0	77.5	77.0	77.5	74.5
Case 2294 Dsl. w/cab	1526	84.5	76.0	76.5	76.5	73.5
Case 2394 Dsl. w/cab	1527	88.0	76.0	75.5	76.0	74.0
Case 3294 Dsl. w/cab	1528	84.5	75.5	76.5	76.0	74.0
Case 2594 Dsl. w/cab	1529	87.5	78.0	76.5	76.5	74.0
Case 4994 Dsl. w/cab	1530	90.0	76.5	75.5	74.5	73.5
Hesston-Fiat 60-66 DT						
Dsl. w/o cab	1531	85.5	94.5	95.0	94.5	89.0
Hesston-Fiat 80-66 DT						
Dsl. w/o cab	1532	89.0	93.5	94.0	95.5	90.0
Hesston-Fiat 140-90 DT						
Dsl. w/cab	1533	86.0	78.0	78.5	79.5	77.0
Hesston-Fiat 160-90 DT						
Dsl. w/cab	1534	85.5	78.0	78.5	78.0	75.5
Hesston-Fiat 180-90 DT						
Dsl. w/cab	1535	86.0	78.5	78.5	78.5	75.5
Ford TW-15 Dsl. w/cab	1536	85.5	79.5	80.5	80.5	77.5
Ford TW-35 Dsl. w/cab	1537	88.5	82.0	81.5	81.5	79.0
Massey-Ferguson 670						
Dsl. w/cab	1538	84.0	80.5	80.0	80.5	78.0
Massey-Ferguson 690						
Dsl. w/cab	1539	86.5	81.0	80.0	81.0	77.0
Massey-Ferguson 698						
Dsl. w/cab	1540	87.5	82.5	81.5	81.0	79.5
Massey-Ferguson 699						
Dsl. w/cab	1541	88.5	81.5	82.5	82.5	79.5
Steiger Bearcat IV KM-225						
Dsl. w/cab	1542	101.5	79.0	80.5	80.0	77.0
Steiger Panther IV KM-325						
Dsl. w/cab	1543	104.0	79.0	79.0	78.5	76.5

Table III. Continued

<i>Tractor name</i>	<i>Test No.</i>	<i>Bystander sound level</i>	<i>Max. available power</i>	<i>75% of pull</i>	<i>50% of pull</i>	<i>50% of pull (reduced engine speed)</i>
Steiger Panther IV CM-360						
Dsl. w/cab	1544	102.0	78.5	79.0	78.5	76.0
Allis-Chalmers 607 Dsl. w/cab	1545	85.5	80.5	81.5	80.5	77.5
Case 1594 Dsl. w/cab	1546	86.0	83.0	82.0	83.5	78.5
Case 1594 Dsl. w/cab	1547	88.5	80.5	82.5	83.5	80.5
Case 1896 Dsl. w/cab	1548	89.0	77.5	78.0	77.5	74.0
Case 2096 Dsl. w/cab	1549	87.5	77.0	77.5	77.0	74.5
Steiger Panther IV SM-325						
Dsl. w/cab	1550	100.0	80.5	81.5	81.0	75.0
IHC 3088 Dsl. w/cab	1551	86.5	79.0	80.0	78.0	76.5
Massey-Ferguson 1020						
Dsl. w/o cab	1552	75.5	89.5	84.5	89.0	87.5
Massey-Ferguson 1030						
Dsl. w/o cab	1553	77.0	91.0	90.5	88.0	86.5
Massey-Ferguson 1040						
Dsl. w/o cab	1554	78.5	88.0	90.0	89.5	88.0
Kubota L3750 Dsl. w/o cab	1555	84.5	94.0	93.5	92.5	88.5
Kubota L4150 Dsl. w/o cab	1556	84.0	93.5	94.0	93.5	90.5
Kubota M8950 Dsl. w/cab	1557	86.5	78.0	79.5	79.0	75.5
White 4-225 Dsl. w/cab	1558	90.0	78.0	78.0	78.0	77.5
White 4-270 Dsl. w/cab	1559	90.5	79.0	78.5	78.5	75.0
Hesston-Fiat 55-66 Dsl. w/o cab	1560	85.5	95.5	94.0	93.0	90.0
Hesston-Fiat 70-66 Dsl. w/o cab	1561	86.0	94.5	94.0	94.0	90.0
Hesston-Fiat 70-90 Dsl. w/cab	1562	85.5	80.0	80.5	81.0	75.5
Hesston-Fiat 80-90 Dsl. w/cab	1563	86.0	80.0	81.0	81.0	74.5
Hesston-Fiat 130-90 Dsl. w/cab	1564	86.0	77.5	83.0	81.5	77.0
Versatile 276 Dsl. w/cab	1565	90.0	80.5	81.0	79.5	80.0
Versatile 836 Dsl. w/cab	1566	92.0	84.0	80.0	81.0	74.0
Versatile 836 Dsl. w/cab	1567	91.5	79.5	79.5	79.0	71.5
Versatile 856 Dsl. w/cab	1568	91.5	82.5	79.0	80.5	76.5
Versatile 876 Dsl. w/cab	1569	91.5	84.0	81.0	79.0	78.5
Versatile 936 Dsl. w/cab	1570	93.0	80.0	81.5	81.5	76.5
Zetor 5245 Dsl. w/cab	1571	86.0	83.0	83.0	83.0	80.5
Zetor 7245 Dsl. w/cab	1572	87.5	84.0	83.0	83.0	80.0
Ford 2810 Dsl. w/o cab	1573	84.0	96.0	95.0	94.0	91.5
Deutz Allis 6260 Dsl. w/cab	1574	85.5	82.5	83.0	82.5	79.0
Deutz-Fahr DX 4.70						
Dsl. w/cab	1575	84.0	78.5	79.5	79.0	79.0
Deutz-Fahr OX 6.50						
Dsl. w/cab	1576	87.0	79.5	79.0	78.5	77.0
Steiger Cougar CR 1225						
Dsl. w/cab	1577	90.0	78.0	79.0	78.0	75.0
Steiger Cougar CR 1280						
Dsl. w/cab	1578	90.5	77.0	77.5	78.0	74.5

**Table III. Continued**

<i>Tractor name</i>	<i>Test No.</i>	<i>Bystander sound level</i>	<i>Max. available power</i>	<i>75% of pull</i>	<i>50% of pull</i>	<i>50% of pull (reduced engine speed)</i>
Hesston-Fiat 45-66 DT						
Dsl. w/o cab	1579	87.0	95.0	95.0	95.5	90.5
Hesston-Fiat 100-90						
Dsl. w/cab	1580	86.5	78.5	79.0	78.0	74.5
Hesston-Fiat 180-90 Dsl. w/cab	1581	84.0	81.0	81.5	81.0	79.0
Kubota L2250 Dsl. w/o cab	1585	82.0	89.5	90.0	89.5	87.0
Kubota L2250 Dsl. w/o cab	1586	83.0	91.0	91.0	89.5	86.5
Kubota L2850 Dsl. w/o cab	1587	81.5	90.0	89.5	90.0	87.5
Kubota L3350 Dsl. w/o cab	1588	83.5	92.0	92.0	91.0	88.5
John Deere 3150-3155						
Dsl. w/cab	1589	90.0	77.0	77.5	76.5	72.0
John Deere 4050						
Quadrangle Dsl. w/cab	1590	86.5	73.0	73.5	74.5	71.0
John Deere 4050						
Powershift Dsl. w/cab	1591	88.0	74.5	74.5	75.0	72.5
Steiger Bearcat						
1000 Dsl. w/cab	1592	89.5	78.5	77.0	77.5	76.0
Steiger Cossar						
1000 Dsl. w/cab	1593	90.0	80.0	79.0	79.0	77.5
Kubota M4030 DT						
M4030 Dsl. w/o cab	1594	85.5	94.0	93.0	93.0	90.5
Kubota M5030 DT						
M5030 Dsl. w/o cab	1595	86.5	94.0	3.5	93.5	93.0
Kubota M6030 DT						
M6030 Dsl. w/o cab	1596	86.5	96.0	96.0	94.0	91.0
Kubota M7030 DT						
M7030 Dsl. w/o cab	1597	87.5	95.5	95.0	93.0	91.0
Kubota M8030 DT						
M8030 Dsl. w/o cab	1598	87.0	94.5	94.5	94.0	90.5
Valmet 980 4						
4x4 Turbo Dsl. w/o cab	1599	85.5	95.5	95.5	95.0	92.5
Valmet 1484						
4x4 Turbo Dsl. w/o cab	1600	96.5	97.5	97.5	97.5	92.0
Zetor 6245-6211 Dsl. w/cab	1601	88.5	82.0	82.0	82.0	79.5
Zetor 7745-7711 Dsl. w/cab	1602	89.0	83.5	83.5	83.5	80.0
Hesston 160-90						
Turbo Fiat Dsl. w/cab	1603	88.0	80.5	79.0	80.0	77.0
Case IHC 685 Dsl. w/o cab	1604	89.5	97.0	96.0	95.5	91.5
John Deere 2755 Dsl. w/cab	1605	84.0	76.5	76.5	76.5	71.5
John Deere 2955 Dsl. w/cab	1606	90.0	77.5	77.0	76.0	72.5
White 160 Dsl. w/cab	1607	86.5	76.5	76.5	76.5	76.5
White 185 Dsl. w/cab	1608	87.5	76.5	76.5	76.5	76.5
Case IHC 7110 Dsl. w/cab	1609	84.5	73.0	72.5	72.5	69.5
Case IHC 7120 Dsl. w/cab	1610	84.5	73.5	72.0	72.5	71.0
Case IHC 7130 Dsl. w/cab	1611	83.0	73.0	72.0	71.0	70.5
Case IHC 7140 Dsl. w/cab	1612	85.0	74.0	73.5	73.0	72.5
Caterpillar Challenger						
15 Dsl. w/cab	1613	89.0	75.5	75.5	74.5	73.5

**Table III. Continued**

<i>Tractor name</i>	<i>Test No.</i>	<i>Bystander sound level</i>	<i>Max. available power</i>	<i>75% of pull</i>	<i>50% of pull</i>	<i>50% of pull (reduced engine speed)</i>
White 100 Dsl. w/cab	1614	89.5	76.5	77.0	75.5	73.5
White 120 Dsl. w/cab	1615	86.5	77.0	77.0	76.0	74.5
White 140 Dsl. w/cab	1616	86.5	75.5	75.5	74.5	74.5
John Deere 4055 Dsl. w/cab	1617	87.0	74.5	75.5	Transport Speed 77.0	
John Deere 4255 Dsl. w/cab	1618	86.5	75.0	75.5	Transport Speed 77.5	
John Deere 4455 Dsl. w/cab	1619	87.0	74.5	76.5	Transport Speed 77.0	
John Deere 4555 Dsl. w/cab	1620	88.0	76.5	77.0	Transport Speed 77.5	
John Deere 4755 Dsl. w/cab	1621	85.5	76.5	77.0	Transport Speed 77.0	
John Deere 4955 Dsl. w/cab	1622	87.0	76.5	77.5	Transport Speed 79.0	
John Deere 4955 Dsl. w/cab	1622	87.0	76.5	77.5	Transport Speed 79.0	
John Deere 8560 Dsl. w/cab	1623	87.0	76.5	76.5	Transport Speed 76.5	
John Deere 8760 Dsl. w/cab	1624	87.0	76.0	76.5	Transport Speed 75.0	
John Deere 8960 Dsl. w/cab	1625	87.0	74.0	77.0	Transport Speed 75.0	
John Deere 4055 Dsl. w/cab	1626	86.5	76.0	77.0	Transport Speed 75.5	
John Deere 4255 Dsl. w/cab	1627	85.0	76.5	76.5	Transport Speed 75.5	
John Deere 4455 Dsl. w/cab	1628	85.0	76.0	76.0	Transport Speed 76.0	
John Deere 4555 Dsl. w/cab	1629	85.0	76.0	76.0	Transport Speed 76.0	
John Deere 4755 Dsl. w/cab	1630	86.5	76.0	76.0	Transport Speed 76.5	
John Deere 8760 Dsl. w/cab	1631	90.0	79.0	78.5	Transport Speed 78.0	
John Deere 8960 Dsl. w/cab	1632	90.0	79.0	80.0	Transport Speed 79.0	
Deutz Allis 9150 Dsl. w/cab	1633	86.5	75.5	76.0	Transport Speed 75.5	74.5
Deutz Allis 9170 Dsl. w/cab	1634	88.0	76.5	77.0	Transport Speed 76.0	73.0
Deutz Allis 9190 Dsl. w/cab			75.5	76.5	Transport Speed 75.5	73.0

**Table III. Continued**

<i>Tractor name</i>	<i>Test No.</i>	<i>Bystander sound level</i>	<i>Max. available power</i>	<i>75% of pull</i>	<i>50% of pull</i>	<i>50% of pull (reduced engine speed)</i>
<b>OECD TESTS</b>						
John Deere 2155 Dsl. w/o cab	1094	NA	94.5			
John Deere 2355 Dsl. w/o cab	1095	NA	93.5			
John Deere 2555 Dsl. w/o cab	1096	NA	94.0			
John Deere 2555 Dsl. w/o cab	1097	NA	97.0			
John Deere 2555 Dsl. w/o cab	1098	NA	93.5			
Case IHC 9110 Dsl.						
Steiger Puma 1000 Dsl.	1125	94.0	80.0			
Case IHC 9130 Dsl. Steiger						
Wildcat 1000 Dsl. w/cab	1126	94.5	79.0			
Case IHC 9150 Dsl. Steiger						
Cougar 1000 Dsl. w/cab	1127	94.0	81.5			
Case IHC 9170 Dsl. Steiger						
Panther 1000 Dsl. w/cab	1128	95.0	79.0			
Case IHC Dsl. Steiger Lion						
1000 Dsl. w/cab	1129	95.0	81.0			
White 60 Dsl. w/o cab	1636	91.0	96.5	97.0	95.5	92.0
White 80 Dsl. w/o cab	1637	85.5	94.0	94.0	93.0	88.0
Belarus 420A Dsl. w/o cab	1638	88.0	98.0	97.5	96.5	93.0
Belarus 820 Dsl. w/cab	1640	89.0	81.5	80.5	81.0	80.5
Belarus 1770 Dsl. w/cab	1641	88.5	81.5	82.5	85.0	83.0

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