

Regulations and other acts

M.O., 2003012

Order of Minister of the Environment dated 17 June 2003

An Act to amend the Act to preserve agricultural land and other legislative provisions in order to promote the preservation of agricultural activities
(1996, c. 26)

An Act to amend the Act respecting the preservation of agricultural land and agricultural activities and other legislative provisions
(2001, c. 35)

Guidelines respecting odours caused by manure from agricultural activities

WHEREAS on 25 September 1996, the Guidelines concerning the prevention of air pollution in livestock operations were issued by the Minister of the Environment and Wildlife and published in the *Gazette officielle du Québec*;

WHEREAS, under section 87 of the Act to amend the Act to preserve agricultural land and other legislative provisions in order to promote the preservation of agricultural activities (1996, c. 26), any amendment made to the Guidelines by the Minister of the Environment and Wildlife shall be published in the *Gazette officielle du Québec* and shall take effect on the date of publication;

WHEREAS the Guidelines concerning the prevention of air pollution in livestock operations were replaced by the Guidelines for determining minimum distances to ensure odour management in rural areas, published by the Minister of the Environment and Wildlife in the *Gazette officielle du Québec* of 18 March 1998 (*G.O.* 2, 1286), to harmonize the Guidelines with the government's aims published in the document entitled "Les orientations du gouvernement en matière d'aménagement – La protection du territoire et des activités agricoles – document complémentaire", June 1997;

WHEREAS the majority of the provisions of the Act to amend the Act respecting the preservation of agricultural land and agricultural activities and other legislative provisions (2001, c. 35) came into force on 21 June 2001;

WHEREAS, under section 38 of that Act, to issue a construction permit, a municipality must apply the set-back standards of the Guidelines, including any subsequent amendment the Minister may make until the coming into force of an interim control by-law of a regional county municipality that includes standards deriving from the exercise of the powers provided for in subparagraph 4 of the second paragraph of section 113 of the Act respecting land use planning and development (R.S.Q., c. A-19.1) or of a by-law of a municipality adopted under that subparagraph;

WHEREAS it is expedient to again harmonize the current Guidelines with the government's aims published in the document entitled "Les orientations du gouvernement en matière d'aménagement – La protection du territoire et des activités agricoles – document complémentaire", December 2001;

WHEREAS this harmonization takes up in substance the government's aims of December 2001, except the notion of "business" appearing in the definition of "Protected immovable" in the new Guidelines which is excluded from the text of the government's aims because of the legislative vacuum that would be created by its immediate repeal in the absence of municipal by-laws determining, where applicable, the types of business a municipality intends to protect in the future;

THEREFORE, the Minister of the Environment hereby issues new Guidelines, the text of which appears below, to replace the Guidelines for determining minimum distances to ensure odour management in rural areas.

Québec, 17 June 2003

THOMAS J. MULCAIR,
Minister of the Environment

Guidelines respecting odours caused by manure from agricultural activities

1. OBJECT AND SCOPE

The following provisions pertain only to odours caused by agricultural practices. The provisions do not operate to exempt agricultural operations from the requirement to respect the environmental standards contained in specific regulations of the Ministère de l'Environnement. Their purpose is to establish a procedure for determining separation distances conducive to facilitating a harmonious coexistence of uses in agricultural zones. The municipalities must apply the standards in the Guidelines within the framework of section 38 of the Act to amend the Act respecting the preservation of agricultural land and agricultural activities and other legislative provisions (2001, c. 35) for the time indicated therein. In the same way, the municipalities must consider the Guidelines to the extent provided for in the Regulation under the Act to amend the Act respecting the preservation of agricultural land and agricultural activities and other legislative provisions made under section 44 of that Act by Order in Council 619-2002 dated 29 May 2002.

2. DEFINITIONS

Dwelling

A dwelling having an area of at least 21 m² that does not belong to the owner or operator of the livestock facilities concerned or to a shareholder or manager owning or operating the facilities.

Protected immovable

- (a) a business;
- (b) a recreational, sports or cultural centre;
- (c) a municipal park;
- (d) a public beach or marina;
- (e) land belonging to an educational institution or an institution within the meaning of the Act respecting health services and social services (R.S.Q., c. S-4.2);

- (f) a campground;
- (g) buildings of an outdoor recreational area or a nature interpretation centre;
- (h) a ski lodge or golf clubhouse;
- (i) a religious temple;
- (j) a summer theatre;
- (k) a tourist accommodation establishment within the meaning of the Regulation respecting tourist accommodation establishments, except bed and breakfast establishments, tourist homes or basic furnished lodgings;
- (l) buildings used for wine tasting purposes in vineyards or restaurants of 20 seats or more that hold a year-round operating permit, and facilities for country or any other similar form of dining where the eating facilities do not belong to the owner or operator of the livestock facilities concerned.

Protected heritage site

A heritage site recognized by a competent jurisdiction and shown on the development plan.

Municipal urbanization perimeter

The boundary envisaged for the growth of a municipality's urban areas, as defined in its development plan, with the exception of any portion of the perimeter in an agricultural zone.

Marina

Tourist installation that comprises a pleasure-boat harbour and the facilities that border the harbour and that is shown on the development plan.

Campground

Establishment offering to the public, in return for payment, sites to accommodate tents or recreational camping vehicles, with the exception of a campground on a farm that belongs to the owner or operator of the livestock facilities concerned.

Solid manure management

A method of removing manure from a livestock facility or storage works where the water content is lower than 85% leaving the building.

Liquid manure management

A method of removing manure other than by solid manure management.

Livestock facility

A facility where animals are raised or an enclosure or part of an enclosure where animals are kept for purposes other than pasture including, where applicable, any manure storage works in the facility or enclosure.

Livestock unit

A livestock facility or, where there is more than one facility, all the livestock facilities in respect of which a point on the perimeter of one facility is less than 150 metres from the neighbouring livestock facility, and from storage works, if any, for the manure from the animals in the facility or facilities.

3. SEPARATION DISTANCES FOR LIVESTOCK FACILITIES

The separation distances for livestock facilities are obtained by multiplying the set of parameters B, C, D, E, F and G appearing below.

The parameters are as follows:

Parameter A: maximum number of livestock units (LU) kept during an annual production cycle. It is used to determine parameter B and is established using the table in Schedule A.

Parameter B: base distance. It is established by locating, in the table appearing in Schedule B, the base distance corresponding to the value calculated for parameter A.

Parameter C: odour coefficient. The table in Schedule C shows the odour coefficient according to the group or category of animals in question.

Parameter D: manure type. The table in Schedule D gives the value of the parameter in relation to the farm manure management practice.

Parameter E: project type. When a livestock unit has availed itself in totality of the development right under the *Act respecting the development of agriculture land and agricultural activities*, or to increase livestock by more than 75 LU, the applicable separation distances may be relaxed in its respect, subject to the content of Schedule E, up to a maximum of 225 LU.

Parameter F: attenuation factor. This parameter appears in Schedule F. It enables integration of the odour attenuation effect resulting from the technology used.

Parameter G: use factor. It is based on the type of neighbouring unit in question. Schedule G gives the value of the factor.

4. RECONSTRUCTION AFTER A FIRE OF A NON-CONFORMING LIVESTOCK FACILITY PROTECTED BY ACQUIRED RIGHTS

Where a non-conforming livestock facility protected by acquired rights is destroyed by fire or any other cause, the municipality shall ensure that the producer affected can continue to carry on activities,¹ and that the erection of new facilities takes place in compliance with the by-laws in force, in such manner as to improve the previous situation in terms of harmonious co-existence with neighbouring uses, subject to the application of a by-law adopted under the third paragraph of section 118 of the *Act respecting land use planning and development*. Among other things, the side and front spaces prescribed in the municipal by-laws must be respected. If it is not possible to respect the standards under the by-laws, a minor exemption to the provisions of the zoning by-law may be granted to enable the main facility and accessory structures to be rebuilt.²

¹ Under subparagraph 18 of the first paragraph of section 113 of the *Act respecting land use planning and development*, a municipality may define a period of time, that may not be shorter than six months, for a use that has been abandoned, has ceased or has been interrupted.

² Under section 145.1 and following of the *Act respecting land use planning and development*, the council of a municipality may grant a minor exemption if a person cannot respect the by-laws in force if the application of the by-law causes a serious prejudice to the applicant. However, a minor exemption may not be granted if it hinders the owners of the neighbouring immovables in the enjoyment of their right of ownership.

5. SEPARATION DISTANCES FOR FARM MANURE STORAGE SITES SITUATED MORE THAN 150 METRES FROM LIVESTOCK FACILITIES

When farm manure is stored outside the livestock facility, separation distances must be respected. They are established on the consideration that one livestock unit (LU) requires a 20m³ storage capacity. For example, the value of parameter A, in the case of a 1000m³ capacity tank, corresponds to 50 LU. Once that equivalence has been determined, it is possible to determine the corresponding base distance using Table B. The formula multiplying the set of parameters B, C, D, E, F and G may then be applied. The following table illustrates cases where C, D and E equal 1, with G varying according to the neighbouring unit considered.

Separation distances for liquid manure storage sites³ situated more than 150 metres from a livestock facility

Storage ⁴ capacity (m ³)	Separation distances (m)		
	Dwelling	Protected immovable	Urbanization perimeter
1 000	148	295	443
2 000	184	367	550
3 000	208	416	624
4 000	228	456	684
5 000	245	489	734
6 000	259	517	776
7 000	272	543	815
8 000	283	566	849
9 000	294	588	882
10 000	304	607	911

6. SEPARATION DISTANCES FOR SPREADING FARM MANURE

The nature of farm manure and the equipment used are the determining factors in respect of the separation distances to respect for spreading. The distances proposed in the following table are a compromise between spreading practices and protection of other uses in rural areas. The use of sprinklers or cannons is prohibited under the provisions of the regulations of the Ministère de l'Environnement. Farm manure must be spread in keeping with the separation distances appearing in the following table:

Separation distances for spreading farm manure⁵

Type	Spreading method	Distance required from any dwelling, urbanization perimeter or protected immovable (m)		
		June 15 to August 15	Other times	
L I Q U I D	aero-sprinkling (tank)	liquid manure left on the surface more than 24 h	75	25
		liquid manure incorporated within less than 24 h	25	X ⁶
D	sprinkling	by spray bar	25	X
		by drop pipe	X	X
	simultaneous incorporation	X	X	
S O	fresh, left on the surface more than 24 h	75	X	
L I D	fresh, incorporated within less than 24 h	X	X	
	deodorized compost	X	X	

7. These Guidelines replace the Guidelines for determining minimum distances to ensure odour management in rural areas published in the *Gazette officielle du Québec* on 18 March 1998.

8. These Guidelines come into force on the date of their publication in the *Gazette officielle du Québec*.

³ For manure, multiply the above distances by 0.8.

⁴ For other storage capacity, effect the necessary calculations using a rule of apportionment or the data for parameter A.

⁵ No separation distance is required for uninhabited zones in an urbanization perimeter.

⁶ X = Spreading permitted up to field limits.

SCHEDULE A**NUMBER OF LIVESTOCK UNITS (PARAMETER A)**

1. For the purposes of determining parameter A, the animals listed in the table below are equivalent to one livestock unit in relation to the number prescribed.

2. For any other animal species, an animal weighing 500 kg or more or a livestock group of that species whose total weight is 500 kg is equivalent to one livestock unit.

3. When a weight is given in this Schedule, it refers to the forecasted weight of the animal at the end of the livestock period.

Livestock group or category	Number of animals equivalent to one livestock unit
Cow, bull, horse	1
Calves weighing 225 to 500 kg each	2
Calves weighing less than 225 kg each	5
Breeder hogs weighing 20 to 100 kg each	5
Piglets weighing less than 20 kg each	25
Sows and piglets not weaned in the year	4
Hens or roosters	125
Broiler chickens	250
Started pulets	250
Quails	1500
Pheasants	300
Broiler turkeys weighing 5 to 5.5 kg each	100
Broiler turkeys weighing 8.5 to 10 kg each	75
Broiler turkeys weighing 13 kg each	50
Female mink excluding males and young	100
Vixen excluding males and young	40
Sheep and yearling lambs	4
Goats and yearling kids	6
Female rabbits excluding males and young	40

SCHEDULE B

BASE DISTANCES (PARAMETER B)

L.U.	m	L.U.	m	L.U.	m	L.U.	m	L.U.	m	L.U.	m	L.U.	m	L.U.	m	L.U.	m		
1	86	51	297	101	368	151	417	201	456	251	489	301	518	351	543	401	567	451	588
2	107	52	299	102	369	152	418	202	457	252	490	302	518	352	544	402	567	452	588
3	122	53	300	103	370	153	419	203	458	253	490	303	519	353	544	403	568	453	589
4	134	54	302	104	371	154	420	204	458	254	491	304	520	354	545	404	568	454	589
5	143	55	304	105	372	155	421	205	459	255	492	305	520	355	545	405	568	455	590
6	152	56	306	106	373	156	421	206	460	256	492	306	521	356	546	406	569	456	590
7	159	57	307	107	374	157	422	207	461	257	493	307	521	357	546	407	569	457	590
8	166	58	309	108	375	158	423	208	461	258	493	308	522	358	547	408	570	458	591
9	172	59	311	109	377	159	424	209	462	259	494	309	522	359	547	409	570	459	591
10	178	60	312	110	378	160	425	210	463	260	495	310	523	360	548	410	571	460	592
11	183	61	314	111	379	161	426	211	463	261	495	311	523	361	548	411	571	461	592
12	188	62	315	112	380	162	426	212	464	262	496	312	524	362	549	412	572	462	592
13	193	63	317	113	381	163	427	213	465	263	496	313	524	363	549	413	572	463	593
14	198	64	319	114	382	164	428	214	465	264	497	314	525	364	550	414	572	464	593
15	202	65	320	115	383	165	429	215	466	265	498	315	525	365	550	415	573	465	594
16	206	66	322	116	384	166	430	216	467	266	498	316	526	366	551	416	573	466	594
17	210	67	323	117	385	167	431	217	467	267	499	317	526	367	551	417	574	467	594
18	214	68	325	118	386	168	431	218	468	268	499	318	527	368	552	418	574	468	595
19	218	69	326	119	387	169	432	219	469	269	500	319	527	369	552	419	575	469	595
20	221	70	328	120	388	170	433	220	469	270	501	320	528	370	553	420	575	470	596
21	225	71	329	121	389	171	434	221	470	271	501	321	528	371	553	421	575	471	596
22	228	72	331	122	390	172	435	222	471	272	502	322	529	372	553	422	576	472	596
23	231	73	332	123	391	173	435	223	471	273	502	323	530	373	554	423	576	473	597
24	234	74	333	124	392	174	436	224	472	274	503	324	530	374	554	424	577	474	597
25	237	75	335	125	393	175	437	225	473	275	503	325	531	375	555	425	577	475	598
26	240	76	336	126	394	176	438	226	473	276	504	326	531	376	555	426	578	476	598
27	243	77	338	127	395	177	438	227	474	277	505	327	532	377	556	427	578	477	598
28	246	78	339	128	396	178	439	228	475	278	505	328	532	378	556	428	578	478	599
29	249	79	340	129	397	179	440	229	475	279	506	329	533	379	557	429	579	479	599
30	251	80	342	130	398	180	441	230	476	280	506	330	533	380	557	430	579	480	600
31	254	81	343	131	399	181	442	231	477	281	507	331	534	381	558	431	580	481	600
32	256	82	344	132	400	182	442	232	477	282	507	332	534	382	558	432	580	482	600
33	259	83	346	133	401	183	443	233	478	283	508	333	535	383	559	433	581	483	601

L.U.	m	L.U.	m	L.U.	m	L.U.	m	L.U.	m	L.U.	m	L.U.	m	L.U.	m	L.U.	m		
34	261	84	347	134	402	184	444	234	479	284	509	334	535	384	559	434	581	484	601
35	264	85	348	135	403	185	445	235	479	285	509	335	536	385	559	435	581	485	602
36	266	86	350	136	404	186	445	236	480	286	510	336	536	386	560	436	582	486	602
37	268	87	351	137	405	187	446	237	480	287	510	337	537	387	560	437	582	487	602
38	271	88	352	138	406	188	447	238	481	288	511	338	537	388	561	438	583	488	603
39	273	89	353	139	406	189	448	239	482	289	511	339	538	389	561	439	583	489	603
40	275	90	355	140	407	190	448	240	482	290	512	340	538	390	562	440	583	490	603
41	277	91	356	141	408	191	449	241	483	291	512	341	539	391	562	441	584	491	604
42	279	92	357	142	409	192	450	242	484	292	513	342	539	392	563	442	584	492	604
43	281	93	358	143	410	193	451	243	484	293	514	343	540	393	563	443	585	493	605
44	283	94	359	144	411	194	451	244	485	294	514	344	540	394	564	444	585	494	605
45	285	95	361	145	412	195	452	245	486	295	515	345	541	395	564	445	586	495	605
46	287	96	362	146	413	196	453	246	486	296	515	346	541	396	564	446	586	496	606
47	289	97	363	147	414	197	453	247	487	297	516	347	542	397	565	447	586	497	606
48	291	98	364	148	415	198	454	248	487	298	516	348	542	398	565	448	587	498	607
49	293	99	365	149	415	199	455	249	488	299	517	349	543	399	566	449	587	499	607
50	295	100	367	150	416	200	456	250	489	300	517	350	543	400	566	450	588	500	607

L.U.	m	L.U.	m	L.U.	m	L.U.	m	L.U.	m	L.U.	m	L.U.	m	L.U.	m	L.U.	m		
501	608	551	626	601	643	651	660	701	675	751	690	801	704	851	718	901	731	951	743
502	608	552	626	602	644	652	660	702	676	752	690	802	704	852	718	902	731	952	743
503	608	553	627	603	644	653	660	703	676	753	691	803	705	853	718	903	731	953	744
504	609	554	627	604	644	654	661	704	676	754	691	804	705	854	718	904	731	954	744
505	609	555	628	605	645	655	661	705	676	755	691	805	705	855	719	905	732	955	744
506	610	556	628	606	645	656	661	706	677	756	691	806	705	856	719	906	732	956	744
507	610	557	628	607	645	657	662	707	677	757	692	807	706	857	719	907	732	957	744
508	610	558	629	608	646	658	662	708	677	758	692	808	706	858	719	908	732	958	745
509	611	559	629	609	646	659	662	709	678	759	692	809	706	859	720	909	733	959	745
510	611	560	629	610	646	660	663	710	678	760	693	810	707	860	720	910	733	960	745
511	611	561	630	611	647	661	663	711	678	761	693	811	707	861	720	911	733	961	745
512	612	562	630	612	647	662	663	712	679	762	693	812	707	862	720	912	733	962	746
513	612	563	630	613	647	663	664	713	679	763	693	813	707	863	721	913	734	963	746
514	613	564	631	614	648	664	664	714	679	764	694	814	708	864	721	914	734	964	746
515	613	565	631	615	648	665	664	715	679	765	694	815	708	865	721	915	734	965	746
516	613	566	631	616	648	666	664	716	680	766	694	816	708	866	722	916	734	966	747
517	614	567	632	617	649	667	665	717	680	767	695	817	708	867	722	917	735	967	747
518	614	568	632	618	649	668	665	718	680	768	695	818	709	868	722	918	735	968	747
519	614	569	632	619	649	669	665	719	681	769	695	819	709	869	722	919	735	969	747
520	615	570	633	620	650	670	666	720	681	770	695	820	709	870	723	920	735	970	748
521	615	571	633	621	650	671	666	721	681	771	696	821	710	871	723	921	736	971	748
522	616	572	633	622	650	672	666	722	682	772	696	822	710	872	723	922	736	972	748
523	616	573	634	623	651	673	667	723	682	773	696	823	710	873	723	923	736	973	748
524	616	574	634	624	651	674	667	724	682	774	697	824	710	874	724	924	736	974	749
525	617	575	635	625	651	675	667	725	682	775	697	825	711	875	724	925	737	975	749
526	617	576	635	626	652	676	668	726	683	776	697	826	711	876	724	926	737	976	749
527	617	577	635	627	652	677	668	727	683	777	697	827	711	877	724	927	737	977	749
528	618	578	636	628	652	678	668	728	683	778	698	828	711	878	725	928	737	978	750
529	618	579	636	629	653	679	668	729	684	779	698	829	712	879	725	929	738	979	750
530	619	580	636	630	653	680	669	730	684	780	698	830	712	880	725	930	738	980	750
531	619	581	637	631	653	681	669	731	684	781	699	831	712	881	725	931	738	981	750
532	619	582	637	632	654	682	669	732	684	782	699	832	713	882	726	932	738	982	751

L.U.	m	L.U.	m	L.U.	m	L.U.	m	L.U.	m	L.U.	m	L.U.	m	L.U.	m	L.U.	m	L.U.	m
533	620	583	637	633	654	683	670	733	685	783	699	833	713	883	726	933	739	983	751
534	620	584	638	634	654	684	670	734	685	784	699	834	713	884	726	934	739	984	751
535	620	585	638	635	655	685	670	735	685	785	700	835	713	885	726	935	739	985	751
536	621	586	638	636	655	686	671	736	686	786	700	836	714	886	727	936	739	986	751
537	621	587	639	637	655	687	671	737	686	787	700	837	714	887	727	937	740	987	752
538	621	588	639	638	656	688	671	738	686	788	700	838	714	888	727	938	740	988	752
539	622	589	639	639	656	689	672	739	686	789	701	839	714	889	727	939	740	989	752
540	622	590	640	640	656	690	672	740	687	790	701	840	715	890	728	940	740	990	752
541	623	591	640	641	657	691	672	741	687	791	701	841	715	891	728	941	741	991	753
542	623	592	640	642	657	692	672	742	687	792	702	842	715	892	728	942	741	992	753
543	623	593	641	643	657	693	673	743	688	793	702	843	715	893	728	943	741	993	753
544	624	594	641	644	657	694	673	744	688	794	702	844	716	894	729	944	741	994	753
545	624	595	641	645	658	695	673	745	688	795	702	845	716	895	729	945	742	995	754
546	624	596	642	646	658	696	674	746	689	796	703	846	716	896	729	946	742	996	754
547	625	597	642	647	658	697	674	747	689	797	703	847	717	897	730	947	742	997	754
548	625	598	642	648	659	698	674	748	689	798	703	848	717	898	730	948	742	998	754
549	625	599	643	649	659	699	675	749	689	799	704	849	717	899	730	949	743	999	755
550	626	600	643	650	659	700	675	750	690	800	704	850	717	900	730	950	743	1000	755

Where the number of livestock units is greater than 1 000, the distance in **metres** is obtained by the following formula:

$$\text{Distance} = e^{4.4593 + 0.3137 \ln(\text{number of livestock units})}$$

SCHEDULE C**ODOUR COEFFICIENT PER GROUP OR CATEGORY OF ANIMALS (PARAMETER C)¹**

Group or category of animals	Parameter C
Beef cattle	
- in a closed facility	0.7
- in an outdoor feeding area	0.8
Dairy cattle	0.7
Ducks	0.7
Horses	0.7
Goats	0.7
Turkeys	
- in a closed facility	0.7
- in an outdoor feeding area	0.8
Rabbits	0.8
Sheep	0.7
Hogs	1.0
Hens	
- laying hens in cages	0.8
- breeder hens	0.8
- broiler hens / large chickens	0.7
- pullets	0.7
Foxes	1.1
Slaughter calves	
- veal calves	1.0
- grain-fed calves	0.8
Mink	1.1

SCHEDULE D**MANURE TYPE (PARAMETER D)**

Farm manure management practices	Parameter D
Solid manure	
Dairy and beef cattle, horses, sheep and goats	0.6
Other groups or categories of animals	0.8
Liquid manure	
Dairy and beef cattle	0.8
Other groups or categories of animals	1.0

SCHEDULE E**PROJECT TYPE (PARAMETER E)**

[new project or increase in the number of livestock units]

Increase² up to (l.u.)	Parameter E	Increase up to(l.u.)	Parameter E
10 or less	0.50	141-145	0.68
11-20	0.51	146-150	0.69
21-30	0.52	151-155	0.70
31-40	0.53	156-160	0.71
41-50	0.54	161-165	0.72
51-60	0.55	166-170	0.73
61-70	0.56	171-175	0.74
71-80	0.57	176-180	0.75
81-90	0.58	181-185	0.76
91-100	0.59	186-190	0.77
101-105	0.60	191-195	0.78
106-110	0.61	196-200	0.79
111-115	0.62	201-205	0.80
116-120	0.63	206-210	0.81
121-125	0.64	211-215	0.82
126-130	0.65	216-220	0.83
131-135	0.66	221-225	0.84
136-140	0.67	226 and more or new project	1.00

¹ For all other animal species, use parameter C = 0.8. That factor does not apply to dogs, the nuisance related with that type of livestock being more a noise problem than an odour problem.

² To be considered depending on the total targeted number of animals in the herd, whether or not buildings are expanded or built. For any project resulting in a total of 226 livestock units or more and for new projects, parameter E = 1.

SCHEDULE F

ATTENUATION FACTOR (PARAMETER F)

$$F = F_1 \times F_2 \times F_3$$

Technology	Parameter F
Roof over storage site	F₁
- absent	1.0
- rigid, permanent	0.7
- temporary (layer of peat, plastic cover)	0.9
Ventilation	F₂
- natural and forced with multiple air outlets	1.0
- forced with grouped air outlets and air outlets above roof	0.9
- forced with grouped air outlets with air washer or biological filters	0.8
Other technologies	F₃
- new technologies may be used to reduce distances when their efficiency has been proven	Factor to be determined upon accreditation

SCHEDULE G

USE FACTORS (PARAMETER G)

Intended use	Factor
Protected immovable	1.0
Dwelling	0.5
Urbanization perimeter	1.5

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