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COMMISSION DECISION

of 14 July 1989

authorizing methods for grading pig carcases in Germany

(Only the German text is authentic)

(89/471/EEC)

(OJ L 233, 10.8.1989, p. 30)

Amended by:

		Official Journal		
		No	page	date
►M1	Commission Decision of 25 June 1990 (90/346/EEC)	L 170	48	3.7.1990
►M2	Commission Decision of 19 December 1990 (90/668/EEC)	L 364	30	28.12.1990
►M3	Commission Decision of 4 February 1991 (91/88/EEC)	L 49	30	22.2.1991
►M4	Commission Decision of 6 July 1994 (94/459/EC)	L 189	86	23.7.1994
►M5	Commission Decision of 30 May 1997 (97/369/EC)	L 157	16	14.6.1997
►M6	Commission Decision of 10 July 1997 (97/546/EC)	L 224	20	14.8.1997
►M7	Commission Decision 2005/628/EC of 26 August 2005	L 224	20	30.8.2005
►M8	Commission Implementing Decision 2011/258/EU of 27 April 2011	L 110	29	29.4.2011

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(89/471/EEC)

THE COMMISSION OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Economic Community,

Having regard to Council Regulation (EEC) No 2759/75 of 29 October 1975 on the common organization of the market in pigmeat ([1]), as last amended by Regulation (EEC) No 1249/89 ([2]), and in particular Article 4 (6) thereof,

Having regard to Council Regulation (EEC) No 3220/84 of 13 November 1984 determining the Community scale for grading pig carcases ([3]), as amended by Regulation (EEC) No 3530/86 ([4]), and in particular Article 5 (2) thereof,

Whereas Article 2 (3) of Regulation (EEC) No 3220/84 provides that the grading of pig carcases must be determined by estimating the content of lean meat in accordance with statistically proven assessment methods based on the physical measurement of one or more anatomical parts of the pig carcase; whereas the authorization of grading methods is subject to compliance with a maximum tolerance for statistical error in assessment; whereas this tolerance has been defined in Article 3 of Commission Regulation (EEC) No 2967/85 of 24 October 1985 laying down detailed rules for the application of the Community scale for grading pig carcases ([5]);

Whereas the Commission, by its Decision 87/43/EEC ([6]), has authorized methods for grading pig carcases in Germany;

Whereas their application has shown that the results of the three authorized methods are difficult to compare;

Whereas with a view to improving the transparency of the market, the Government of the Federal Republic of Germany has requested the Commission to authorize the use of one main method on its territory consisting in the fixing of measuring points and of a single estimation formula for the lean meat content and has submitted for this purpose the information required in Article 3 of Regulation (EEC) No 2967/85; whereas an examination of this request has revealed that the conditions for authorizing the said grading methods are fulfilled;

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([1]) OJ No L 282, 1. 11. 1975, p. 1.
([2]) OJ No L 129, 11. 5. 1989, p. 12.
([3]) OJ No L 301, 20. 11. 1984, p. 1.
([4]) OJ No L 326, 21. 11. 1986, p. 8.
([5]) OJ No L 285, 25. 10. 1985, p. 39.
([6]) OJ No L 17, 20. 1. 1987, p. 38.

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Whereas, however, the method to be thus authorized concerning the taking of measurements is based on the use of the apparatus 'Ultrasound-Scanner' ('SSD 256') the use of which in the abattoirs in general does not seem to be possible in practice; whereas as a consequence it is appropriate, subject to supervision by the Commission, to authorize the use of other apparatus for the grading of pig carcases after they have passed a calibration test by giving equivalent results concerning the values of assessment measurements of the percentage of lean meat to those obtained by the use of the 'Ultrasound-Scanner' ('SSD 256');

Whereas it is necessary, in addition, to maintain a simple method for small abattoirs which are not in a position to bear investment costs engendered by the method mentioned above; whereas for this reason it is appropriate for the moment to continue the use of the method known as 'Zwei-Punkt-Messverfahren' but to limit its use to abattoirs which do not exceed a fixed amount of slaughterings;

Whereas a new decision should be adopted for the sake of clarity to include the two methods mentioned above; whereas, as a consequence, Decision 87/43/EEC should be repealed;

Whereas no modification of apparatus or grading method may be authorized except by means of a new Commission decision adopted in the light of experience gained; whereas, for this reason, the present authorization may be revoked;

Whereas the measures provided for in this Decision are in accordance with the opinion of the Management Committee for Pigmeat,

HAS ADOPTED THIS DECISION:

Article 1

▼**M7**

1.   As a method for grading of pig carcases the assessment method for lean meat based on the use of the apparatus 'Ultrasonic Scanner GE Logiq 200pro', details of which are given in Part 1 of the Annex, is hereby authorised.

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2.   The use of all other apparatus for grading pig carcases is subject to the requirement for ensuring that the values of the measurements and assessed results are equivalent to the method mentioned in paragraph 1.

To this end the apparatus must satisfy a calibration procedure carried out by the competent German authorities concerning the proof of exactitude of the values of the measurements x_1 and x_2 as indicated in the Annex.

▼**M3**

After the end of the measurement procedure it must be possible to verify on the carcase that the apparatus measured the values of measurement x_1 and x_2 on the site provided for in the Annex, Part 1, point 2. The corresponding marking of the measurement site must be made at the same time as the measurement procedure.

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3. When a pig grading apparatus has satisfied the calibration procedure mentioned in paragraph 2, the Government of the Federal Republic of Germany shall inform the Commission before the first use of the apparatus by supplying all necessary particulars.

In this case the procedure laid down in Article 25 of Regulation (EEC) No 2759/75 shall be applied.

▼**M8**

Article 1a

By way of derogation from Article 1(2) and (3), the use of the following methods is authorised for grading pig carcasses pursuant to point 1 of Section B.IV of Annex V to Council Regulation (EC) No 1234/2007 (¹) in Germany:

— the '*Autofom I*' apparatus and the assessment methods related thereto, details of which are given in Part III of the Annex,

— the '*Autofom III*' apparatus and the assessment methods related thereto, details of which are given in Part IV of the Annex,

— the '*CSB Image-Meater*' apparatus and the assessment methods related thereto, details of which are given in Part V of the Annex.

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Article 2

The use of the method termed 'Zwei-Punkt-Messverfahren' ('ZP'), details of which are given in Part 2 of the Annex, is hereby authorized.

However, this method shall only be authorized for abattoirs which do not exceed a weekly slaughtering of 200 pigs as a yearly average.

Article 3

Any modification of the apparatus or of the assessment methods (measurement sites and formulae) shall not be authorized.

Article 4

Decision 87/43/EEC is hereby repealed.

However, until ►**M1** 31 December 1990 ◄, the Federal Republic of Germany may continue to apply the scale for grading pig carcases laid down in Decision 87/431/EEC instead of the scale determined in this Decision.

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Article 5

This Decision is addressed to the Federal Republic of Germany.

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(¹) OJ L 299, 16.11.2007, p. 1.

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ANNEX

METHODS FOR GRADING PIG CARCASES IN GERMANY

►__M7__ **PART 1**

Ultrasonic Scanner GE Logiq 200pro ◄

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1. The 'Ultrasonic Scanner GE Logiq 200pro' is a two-dimensional ultrasonic scanner with digital image processing. The system is operated with a linear 3.5 MHz probe that allows a sonar penetration down to about 20 cm depending on the display window chosen. The scanning width of the probe is 9,4 cm, which corresponds to two or three ribs of the carcase.

The assessment method provided for in paragraph 2 is to be used as a method for the grading of pig carcases established on the basis of the values of the measurements obtained by the apparatus Ultrasonic Scanner GE Logiq 200pro.

Every apparatus used in the abattoir must be calibrated and must give values of the measurements equivalent to those of the Ultrasonic Scanner GE Logiq 200pro.

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2. The lean meat content of the carcass shall be calculated according to the following formula:

$$LMP = 60{,}98501 - 0{,}85831 \bullet x_1 + 0{,}16449 \bullet x_2$$

where:

LMP = the estimated percentage of lean meat in the carcass,

x_1 = the thickness of backfat (including rind) in millimetres, measured at 7 centimetres off the midline of the split carcass, between the second and third last ribs,

x_2 = the thickness of the dorsal muscle in millimetres, measured at the same time and in the same place as x_1.

This formula shall be valid for carcasses weighing between 50 and 120 kilograms.

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PART II

Zwei-Punkt-Meßverfahren (ZP)

1. Grading pig carcases may be carried out by use of the method terms 'Zwei-Punkt-Meßverfahren' ('ZP').

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2. The lean meat content of carcases shall be calculated according to the following formula:

$$LMP = 58{,}10122 - 0{,}56495 \bullet F + 0{,}13199 \bullet M$$

where:

LMP = the estimated percentage of lean meat in the carcass,

F — fat measure, the minimum thickness of visible fat (including rind) covering the *M. glutaeus medius* on the midline of the split carcass (mm),

▼M8

M — meat measure, measured at the shortest connection between the front (cranial) end of the *M. glutaeus medius* and the upper (dorsal) edge of the vertebral canal (mm).

This formula shall be valid for carcasses weighing between 50 and 120 kg.

PART III

Autofom I

1. The rules provided for in this Part shall apply when the grading of pig carcasses is carried out by means of the apparatus known as 'Autofom I'.

2. The apparatus shall be equipped with 16 2 MHz ultrasonic transducers (Carometec A/S), with an operating distance between transducers of 25 mm.

   The ultrasonic data shall comprise measurements of backfat thickness, muscle thickness and related parameters.

   The results of the measurements shall be converted into estimates of the percentage of lean meat by using a computer.

3. The lean meat content of carcasses shall be calculated on the basis of 31 variables according to the following formula:

$$
\begin{aligned}
LMP = {}& 63{,}95382561 - 0{,}11923455 \cdot IP001 - 0{,}09558979 \cdot IP002 - \\
& 0{,}10584604 \cdot IP007 - 0{,}05155666 \cdot IP009 - 0{,}13640649 \cdot IP016 - \\
& 0{,}14213204 \cdot IP022 + 0{,}03049588 \cdot IP030 + 0{,}01790568 \cdot IP032 + \\
& 0{,}01105555 \cdot IP038 - 0{,}16701099 \cdot IP042 - 0{,}06005469 \cdot IP071 - \\
& 0{,}22169624 \cdot IP079 + 0{,}06666878 \cdot IP084 + 0{,}05392766 \cdot IP086 - \\
& 0{,}21648737 \cdot IP090 - 0{,}26525617 \cdot IP091 - 0{,}09417923 \cdot IP092 - \\
& 0{,}01909767 \cdot IP093 - 0{,}01964313 \cdot IP094 - 0{,}02064380 \cdot IP095 - \\
& 0{,}01600385 \cdot IP096 - 0{,}01119575 \cdot IP103 - 0{,}00827959 \cdot IP109 - \\
& 0{,}00687431 \cdot IP111 - 0{,}00757384 \cdot IP112 + 0{,}01885055 \cdot IP113 + \\
& 0{,}06095365 \cdot IP115 + 0{,}05703606 \cdot IP116 + 0{,}04184455 \cdot IP120 + \\
& 0{,}04682307 \cdot IP121 + 0{,}03958671 \cdot IP122
\end{aligned}
$$

   where:

   LMP = the estimated percentage of lean meat in the carcass,

   IP001, IP002, IP007…IP122 are the variables measured by Autofom I.

4. The lean meat content of carcasses may also be calculated on the basis of 3 t-values (principal component variables) according to the following formula:

   $$LMP = 58{,}31148999 + 1{,}16880438 \cdot T1 + 0{,}66490881 \cdot T2 + 0{,}60981266 \cdot T3$$

   where:

   LMP = the estimated percentage of lean meat in the carcass,

   T1, T2, T3 = the principal component variables calculated on the basis of the 31 variables of paragraph 3.

5. The measuring points and the statistical method are described in Part II of the protocol presented to the Commission by Germany in accordance with Article 23(4) of Commission Regulation (EC) No 1249/2008 ([1]).

   This formula shall be valid for carcasses weighing between 50 and 120 kg.

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([1]) OJ L 337, 16.12.2008, p. 3.

▼__M8__

PART IV

Autofom III

1. The rules provided for in this Part shall apply when the grading of pig carcasses is carried out by means of the apparatus known as 'Autofom III.'

2. The apparatus shall be equipped with 16 2 MHz ultrasonic transducers (Carometec A/S), with an operating distance between transducers of 25 mm.

   The ultrasonic data shall comprise measurements of backfat thickness, muscle thickness and related parameters.

   The results of the measurements shall be converted into estimates of the percentage of lean meat by using a computer.

3. The lean meat content of carcasses shall be calculated on the basis of 5 variables according to the following formula:

   $$LMP = 65{,}21715434 - 0{,}23517230 \bullet R2P2 - 0{,}23350031 \bullet R2P6 - 0{,}25098775 \bullet R2P10 - 0{,}10926670 \bullet R2P13 + 0{,}19342930 \bullet R3P5$$

   where:

   LMP = the estimated percentage of lean meat in the carcass,

   R2P2 — weighted average of two fat measures without skin (mm), weighted 2/3 and 1/3, respectively,

   R2P6 — weighted average of two minimum fat measures (mm), weighted 2/3 and 1/3, respectively,

   R2P10 — minimum fat of the cross-section (mm),

   R2P13 — the initial assessment of the carcass size,

   R3P5 — the maximum meat measure (maximum rib position minus minimum fat position converted to mm).

4. The measuring points are described in Part II of the protocol presented to the Commission by Germany in accordance with Article 23(4) of Regulation (EC) No 1249/2008.

   This formula shall be valid for carcasses weighing between 50 and 120 kg.

PART V

CSB Image-Meater

1. The rules provided for in this Part shall apply when the grading of pig carcasses is carried out by means of the apparatus known as 'CSB Image-Meater'.

2. The CSB Image-Meater consists in particular of a video camera, a PC equipped with an image-analysis card, a screen, a printer, a command mechanism, a rate mechanism and interfaces. The 3 Image-Meater variables are all measured at the split line in the ham area (around *M. gluteus medius*):

   The results of the measurements shall be converted into estimates of the percentage of lean meat by using a computer.

3. The lean meat content of carcases shall be calculated according to the following formula:

   $$LMP = 68{,}06616 - 0{,}45829 \bullet MS + 0{,}11278 \bullet MF - 0{,}25545 \bullet WL$$

▼M8

where:

LMP = the estimated percentage of lean meat in the carcass,

MS — mean fat measure above (dorsal of) *M. gluteus medius* (mm),

MF — mean meat measure — over the length of *M. gluteus medius* (mm),

WL — mean length of the four lumbar vertebral bodies cranial of the *M. gluteus medius* (mm).

4. The measuring points are described in Part II of the protocol presented to the Commission by Germany in accordance with Article 23(4) of Regulation (EC) No 1249/2008.

This formula shall be valid for carcasses weighing between 50 and 120 kg.