

Pork yield guide

Animal to carcase, to primals to cuts

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Introduction

The industry aim is to add value, use every part of the carcase and minimise wastage. This brochure has been produced to help people working with pork to get a basic understanding about the yield figures from farm to plate. Traditionally, the carcase is divided into three primal cuts, the Forequarter, the Middle and the Leg. Each of these primal cuts is then cut into a range of individual cuts and muscles, from which weights have been taken, to calculate the overall yield.

Dick van Leeuwen

AHDB Business Development Manager and Master Butcher

Processing the pork carcase, from farm to plate

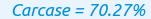
Animal = 100%



Fifth quarter = variety meats/offal/edible co-products/animal by-products = 29.73%

Durchust	Figures liveweigh	from a pig weighi nt, average fatnes	ing 111.5 kg ss of P2 = 11
Product	kg	% of fifth quarter	% of liveweight
	Meat and b	est fat	
Caul fat	0.13	0.39	0.12
Head	4.40	13.27	3.95
Tongue	0.45	1.36	0.40
Jowls	1.80	5.43	1.61
	Edible co-pr	oducts	
Stomach (maw)	0.66	2.00	0.59
Small Intestines	0.15	0.45	0.13
	Offal		
Liver	1.81	5.46	1.62
Skirt	0.42	1.27	0.38
	Pharmaceu	ıticals	
Mucosa	0.07	0.21	0.06
Blood	4.11	12.40	3.69
F	Petfood or Ca	tegory 3*	
Intestinal fat	1.01	3.05	0.91
Spinal Cord	0.11	0.33	0.10
Large Intestines	3.10	9.35	2.78
Heart	0.34	1.03	0.30
Lungs, trachea	1.50	4.52	1.35
Bladder	0.25	0.75	0.22
Reproductive organs	0.35	1.06	0.31
Pancreas	0.48	1.45	0.43
Spleen	0.20	0.60	0.18
Category 2 -	normally ren	dered as Catego	ry 1
Gut contents	10.60	31.98	9.51
Tongue root trim	0.01	0.03	0.01
Hair scrapings and hooves	1.20	3.62	1.08
Total	33.15	100.00	29.73

*Many of these products will go as offal for human consumption, depending on export markets





This figure excludes the head, but includes trotters, kidney and flare fat.

Bone/Cut loss = 7.44%*



*Edible meat = 62.83%**



This figure includes skin (crackling), kidney and subcutaneous fat.

*Average yield of primals, muscles, joints, cuts and bone, fat and drip loss, as a percentage of the pork carcase. Yields will vary depending on the type of cuts produced from the pork carcase, e.g. boneless or bone-in cuts, rindless or rind-on cuts, etc. Source: AHDB

Pork primal cuts



Brisket Muscle – fully trimmed











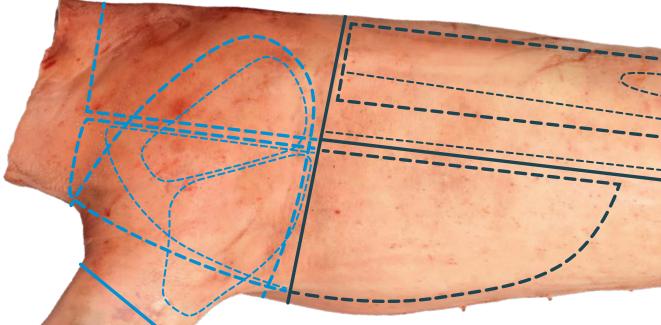
Brisket Rib Rack



Shank – Forequarter









London Rib Rack – Ioin

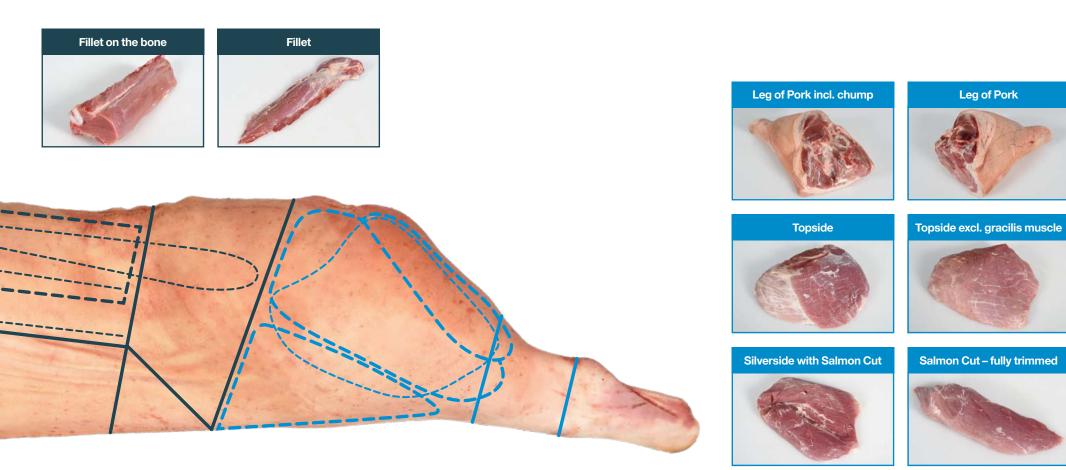


























Thick Flank



Leg of Pork

Shank – Hindquarter



Pork carcase classification

The following equipment is approved for use in the UK:

- Optical probe
- Hennessey Grading Probe (HGP)
- Fat-O-Meater (FOM)
- AutoFOM
- CSB Ultra-Meater

The HGP, FOM, AutoFOM and CSB Ultra-Meater are all automatic recording probes.

Method 1

Optical Probe is used to measure backfat and rind thickness at the P1 and P3 positions, level with the head of the last rib. The probe is inserted 4.5 cm and 8 cm from the dorsal midline, respectively. The sum of the P1 and P3 measurements is recorded.

Method 2

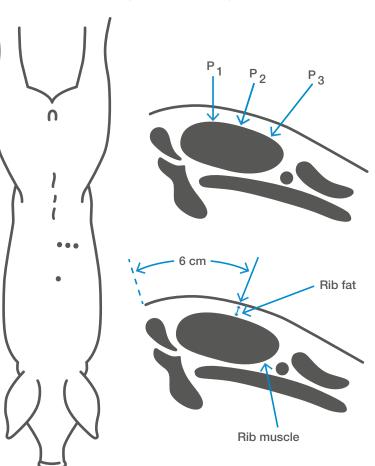
Optical Probe is used to measure backfat and rind thickness at the P2 position, level with the head of the last rib. The probe is inserted 6.5 cm from the dorsal midline.

Method 3

HGP or FOM are used to measure:

- Backfat and rind thickness at the P2 position as for Method 2. The HGP or FOM probes are inserted 6 cm from the dorsal midline
- Backfat and rind thickness at a point 6 cm from the dorsal midline between the third and fourth last rib. This measurement is referred to as rib fat
- Longissimus dorsi (eye muscle) depth at a point 6 cm from the dorsal midline between the third and fourth last rib. This measurement is referred to as rib muscle

Locations of probing sites on a pig carcase



Lean Meat Percentage and EU Grade

Lean meat percentage is calculated as follows:

- Optical probe
- Cold carcase weight and P2 (or P1 + P3) fat depths are used to estimate lean meat percentage.

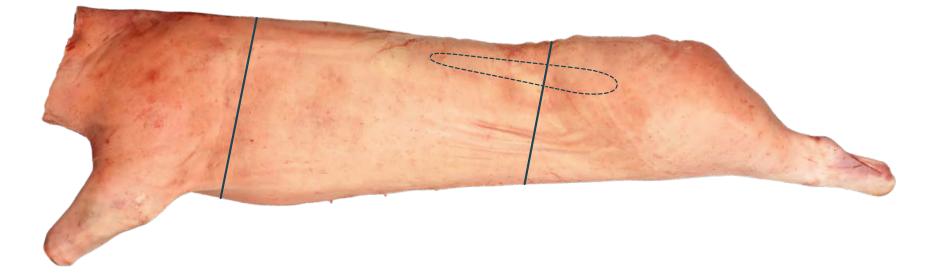
An EU grade can be allocated to a carcase by using the lean meat percentage figure.

Lean meat percentage	EU grade
60% and above	S
55–59%	E
50-54%	U
45–49%	R
40–44%	0
39% or less	Р

Visual Appraisal

This is the identification of pigs with carcase faults. These are described as 'Z' carcases. Carcases that are scraggy, deformed, blemished, pigmented and coarse skinned, those with soft fat or pale muscle and those devalued by being partially condemned are recorded as 'Z' on the carcase record (PCC1 or computer equivalent). Young boars are identified and recorded. Carcases with poor conformation are recorded as 'C' carcases at the request of the abattoir.

Pork carcase to primal cuts – yield information



Forequarter – bone-in		Middle – excl. fillet		Fillet		Leg and Chump – ex head	cl. fillet
Code: 1003		Code: 1034		Code: 2012		Code: 1045	
Weight	11.76 kg	Weight	12.30 kg	Weight	0.51 kg	Weight	11.92 kg
Percentage of side	32.21%	Percentage of side	33.70%	Percentage of side	1.40%	Percentage of side	32.65%

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As soon as the carcase is cut into, cutting and drip loss will be experienced.

The weights/percentages of cuts are intended to act as a guide only, as butchery techniques, carcase weights and types may vary from one business to another.

For the above primals, the forequarter and the leg include trotter weights and the middle includes the kidney and flare fat.

Pork forequarter cuts – yield information

Forequarter – bone-in	Forequarter – withou vertebrae and rib bo		Shoulder – round		Shoulder – boneless excl. shank	, rindless,
Code: 1003	Code: 1004		Code: 1005		Code: 1027	
Description: Bone-in forequarter.	Description: Bone-in forequar bones and vertebrae removed		Description: Removed from the the collar muscles and brisket r		Description: Prepared from the (Code: 1005) excluding the sha	
Weight 11.42 kg	g Weight	10.55 kg	Weight	6.55 kg	Weight	4.35 kg
Percentage of primal 97.11%		89.71%	Percentage of primal	55.70%	Percentage of primal	36.99%
Percentage of side 31.28%		28.90%	Percentage of side	17.94%	Percentage of side	11.91%
Boston Butt (Neck End) – bone-in, rind on Code: 1029	Boston Butt Joint – and rindless Code: 2024		Brisket Muscle – fully Code: 1031		Brisket Rib Rack Code: 3069	
Description: This cut contains the collar and	Description: This cut contains blade bone part of the shoulde and rolled into a roasting joint.		Description: The brisket musc by seam cutting from the round (Code: 1005). Excess fat and g	d shoulder	Description: A meaty rib rack, the brisket muscle.	which includes
blade bone part of the shoulder.						
blade bone part of the shoulder. Weight 5.36 kg		3.95 kg	Weight	0.46 kg	Weight	1.12 kg
·	g Weight	3.95 kg 33.59%	Weight Percentage of primal	0.46 kg 3.91%	Weight Percentage of primal	1.12 kg 9.52%

P2 fat measurement 12 mm.

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The calculations shown above do not include the fore trotter weight.

Pork forequarter cuts – yield information

Forequarter Ribs	Shoulder Joint – bonel (Feather and LMC mus		Shoulder Joint – bon (Brisket and Blade m	
Code: 3071	Code: 2021		Code: 2022	
Description: A 4-bone rib rack produced from the forequarter.	Description: Produced from the b round shoulder, which is seam cut highly trimmed feather and LMC n used for this roasting joint.	t; only the	Description: Produced from the round shoulder, which is seam of highly trimmed brisket and bladu used for this roasting joint.	cut; only the
Weight 0.38 kg	Weight	1.27 kg	Weight	1.57 kg
Percentage of primal 3.23%	Percentage of primal	10.80%	Percentage of primal	13.35%
Percentage of side 1.04%	Percentage of side	3.48%	Percentage of side	4.30%
Pork Henry – whole	Shank – forequarter		Fore Trotters	
Pork Henry – whole Code: 2025	Shank – forequarter Code: 1032		Fore Trotters Code: 8008	
				emoved from
Code: 2025	Code: 1032		Code: 8008	moved from 0.34 kg
Code: 2025	Code: 1032	s/ulna	Code: 8008	

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Pork forequarter cuts – yield information

Collar of Pork – bone	in	Collar of Pork – bone	eless	Collar Joint with crac boneless	ckling –
Code: 1007		Code: 1008		Code: 2019	
Description: Bone-in pork collar the forequarter.	r, seam cut from	Description: Boneless collar, see the forequarter.	eam cut from	Description: Trimmed boneles added rind for crackling and ro roasting joint.	
Weight	3.24 kg	Weight	2.57 kg	Weight	2.69 kg
Percentage of primal	27.55%	Percentage of primal	21.85%	Percentage of primal	22.87%
					/
	8.87%	Percentage of side Denver muscle	7.04%	Percentage of side Derby Ribs – collar	7.37%
Percentage of side Chuck Eye Joint – col Code: 2023			7.04%	Percentage of side Derby Ribs – collar Code: 3066	7.37%
Chuck Eye Joint – co		Denver muscle	7.04%	Derby Ribs – collar	7.37%
Chuck Eye Joint – col Code: 2023	Ilar	Denver muscle		Derby Ribs – collar	e collar bones with
Chuck Eye Joint – col Code: 2023 Code: 2023 Code: 2023	Ilar	Denver muscle Code: 3072 Code: 3072		Derby Ribs – collar Code: 3066 Code: code Description: Prepared from th a minimum of 20 mm thick layer	e collar bones with
Chuck Eye Joint – co	Ilar	Denver muscle Code: 3072 Code: 3072 Description: A single muscle, s the collar of pork.	seam cut from	Derby Ribs – collar Code: 3066 Code: Code: Code Description: Prepared from th a minimum of 20 mm thick layer into 30 mm wide portions.	e collar bones with er of meat and cut

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Pork middle cuts – yield information

Middle excl. fillet	Middle – boneless	Loin – boneless, rind on	Loin – boneless, rindless
Code: 1034	Code: 1035	Code: 1056	Code: 1013
		C. 10200	
Description: This middle consists of the loin and belly with the fillet removed.	Description: This middle has all bones removed by sheet boning and does not include the fillet.	Description: Loin with the bones and fillet removed.	Description: Loin with rind, bones and fillet muscle removed.
Weight 11.58 kg	Weight 9.84 kg	Weight 5.53 kg	Weight 4.78 kg
Percentage of primal 94.15%	Percentage of primal 80.00%	Percentage of primal 44.96%	Percentage of primal 38.86%
Percentage of side 31.72%	Percentage of side 26.95%	Percentage of side 15.15%	Percentage of side 13.09%
Fillet on the bone Code: 2030	Loin – bone-in, rind on, excl. fillet Code: 1037	Loin – bone-in, rindless, excl. fillet Code: 1036	
	and the second s	A COMPANY AND A	
Description: A bone-in fillet prepared from the lumbar section of the loin.	Description: Bone-in loin including rind but without the fillet.	Description: Bone-in loin without the fillet, and with rind and fat removed to a maximum fat depth of 10 mm.	
		with rind and fat removed to a maximum fat	
lumbar section of the loin.	without the fillet.	with rind and fat removed to a maximum fat depth of 10 mm.	

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Pork middle cuts – yield information

Loin Eye Muscle 959 silverskin, chain and muscle		Loin Eye Muscle 98% silverskin, incl. chain spinalis muscle		Loin Eye Muscle – 99 Code: 1044	9%VL
Code: 1042		Code: 1043			
Contraction of the					
Description: Boneless loin wit back fat removed.	n the tail and all	Description: Boneless loin with fat and silverskin removed.	n the tail, all back	Description: Boneless loin with back fat, silverskin, chain and s removed, leaving just the eye m to 99%VL.	pinalis muscle
Weight	4.27 kg	Weight	3.78 kg	Weight	3.46 kg
Percentage of primal	34.72%	Percentage of primal	30.73%	Percentage of primal	28.13%
Percentage of side	11.70%	Percentage of side	10.35%	Percentage of side	9.48%
Spare Rib – Ioin		Gloucester Rib Rack		London Rib Rack – Io	bin
Code: 3019		Code: 3055	and the second	Code: 3057	
	noved by	Description: A rack of loin ribs variety of muscles, including th creating a meaty rib rack.		Description: Vertebrae and fea the loin with a minimum of 20 m of meat.	
Description: Rack loin ribs ren sheet boning.		oreating a meaty no raok.			
sheet boning.	0.56 kg	Weight	1.93 kg	Weight	1.59 kg
	0.56 kg 4.55%		1.93 kg 15.69%	Weight Percentage of primal	1.59 kg 12.93%

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Pork middle cuts – yield information

Belly – bone-in, rind on		Belly – bone-in , rindles	SS	Belly – boneless, rind	on	Belly – boneless, rind	less
Code: 1014		Code: 1040		Code: 1015		Code: 1016	
			70	CONTRACT			
Description: Bone-in belly with the ri	nd on.	Description: Bone-in belly with the rind removed.	9	Description: Rind on belly with the removed by sheet boning.	ne ribs	Description: Rindless belly with removed by sheet boning.	the ribs
Weight	5.62 kg	Weight	5.13 kg	Weight	4.31 kg	Weight	3.86 kg
Percentage of primal	45.69%	Percentage of primal	41.71%	Percentage of primal	35.04%	Percentage of primal	31.38 %
Percentage of side	15.39%	Percentage of side	14.05%	Percentage of side	11.80%	Percentage of side	10.57%
King Rib Rack – belly Code: 3053		Spare Ribs – belly Code: 3020		Kidney Code: 8014		Flare Fat	
		A Mar				Quit	
	ter.				2		- AR
Description: All the trimmed belly me on the rib section of the belly to creat meaty rib rack of required weight.		Description: Rack of ribs, includin bones/cartilage taken from the bell sheet boning.	g the soft y by	Description: Pig's kidney.	/	Description: Flare fat from the i the belly.	nside of
on the rib section of the belly to creat		bones/cartilage taken from the bell	g the soft y by 0.64 kg	Description: Pig's kidney.	0.20 kg		nside of 0.52 kg
on the rib section of the belly to creat meaty rib rack of required weight.	e a very	bones/cartilage taken from the bell sheet boning.	y by		0.20 kg 1.63%	the belly.	

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Pork leg cuts – yield information

Leg and Chump – excl. fil head	llet	Leg and Chump – with and tail bone, excl. fill		Leg of Pork		Leg of Pork – bonele	ess
Code: 1045		Code: 1046		Code: 1047		Code: 1048	
Description: Leg and chump removed		Description: Part-boned leg and		Description: The leg of pork do	Des not include	Description: Leg of pork with the removed. The femuri is removed.	d by tunnel
side of pork by cutting between the las lumbar vertebrae. Excluding the fillet h		pork, excluding the head of the fi	illet.	the chump.		boning. The leg of pork does not the chump.	ot include
Weight	11.26 kg	Weight	9.85 kg	Weight	9.45 kg	Weight	8.45 kg
Percentage of primal	94.46%	Percentage of primal	82.63%	Percentage of primal	79.28%	Percentage of primal	70.89%
Percentage of side	30.84%	Percentage of side	26.98%	Percentage of side	25.88%	Percentage of side	23.14%
Topside		Topside - excl. gracilis	s muscles	Gracilis and associat muscles	ted	Thick Flank	
Topside Code: 1019		Topside - excl. gracilis Code: 1020	s muscles		ted	Thick Flank Code: 1050	
			s muscles	muscles	ted		
	the leg.		leg with the	muscles	ciated muscles		cut from
Code: 1019	the leg.	Code: 1020	leg with the	muscles Code: 1049 Code: 1049	ciated muscles	Code: 1050	cut from 1.36 kg
Code: 1019 Code:		Code: 1020	leg with the removed.	muscles Code: 1049 Image: Code: 1049 Imag	ciated muscles by seam cutting.	Code: 1050	

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Pork leg cuts – yield information

Silverside with Salmor Heel Muscle	Cut and	Silverside with Salmor	ı Cut	Salmon Cut – fully trin 98%VL	nmed	Rump	
Code: 1022		Code: 1023		Code: 1052		Code: 1053	
Description: Silverside with salmond heel muscle seam cut from the leg		Description: Silverside with salme cut from the leg.	on cut seam	Description: Salmon cut seam c and trimmed to 98%VL.	ut from the leg	Description: Rump seam cut fre	om the leg.
Weight	2.45 kg	Weight	1.83 kg	Weight	0.36 kg	Weight	1.10 kg
Percentage of primal	20.55%	Percentage of primal	15.35%	Percentage of primal	3.02%	Percentage of primal	9.23%
Percentage of side	6.71%	Percentage of side	5.01%	Percentage of side	0.99%	Percentage of side	3.01%
Heel Muscle – fully trin Code: 1054	nmed	Hock Code: 3076		Shank – hindquarter Code: 3077		Hind Trotters Code: 8010	
				1	2		
Description: Heel muscle seam cleg and fully trimmed.	ut from the	Description: Bone-in and rind on, hind hock.	, ,	Description: Produced from the rind and heel muscle part remove		Description: Hind trotters remo the leg.	ved from
	ut from the		, 0.99 kg				ved from 0.66 kg
leg and fully trimmed.		hind hock.		rind and heel muscle part remove	ed.	the leg.	

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