

Appendix 3: Data for loss and mass transformation coefficients

Table 1a: Data for food processing: cereals and legumes

| Process | Country | Source | Comment | Ratio input/output |
|----------------------------------|---------|-------------------------------------|--|--------------------|
| Beans, Lima to canned beans | USA | USDA, 1992, p. 56 | farm weight/canned weight | 0,6 |
| Corn to starch and gluten | - | Cederberg, 1998, p. 33 | Ref. from 1996. Starch 99 % and gluten meal 1 % of total starch and meal output. | 1,7 |
| Linseed to linseed oil | USA | USDA, 1992, p. 44 | refined oil | 3,4 |
| Peas, uncleaned to cleaned | - | Carlsson-Kanyama, 1998, p. 16 | data for 1997 | 1,3 |
| Rape seed to rape seed oil | Sweden | Hoveliuss, 1999, p. 4, paper III | Ref. from 1994 | 2,3 |
| Rape seed to rape seed oil | Sweden | Blix and Mattsson, 1998, p. 15 | Ref. from 1998 | 2,5 |
| Rice: unpolished to polished | - | Carlsson-Kanyama, 1998, p. 15 | losses due to hulls and bran removal. Data for 1997 | 1,4 |
| Soy beans to soy bean oil | Sweden | Blix and Mattsson, 1998, p. 15 | - | 5,8 |
| Soy beans to soy bean oil | USA | USDA, 1992, p. 43 | crude oil | 5,4 |
| Sunflower seeds to sunflower oil | USA | USDA, 1992, p. 43 | - | 2,5 |
| Wheat, bread baking | Sweden | Johannisson and Olsson, 1998, p. 11 | Data for 1998, industrial baking | 1,3 |
| Wheat, unmilled to milled | Sweden | Johannisson and Olsson, 1998, p. 9 | Data for 1998, industrial processing | 1,3 |
| Wheat, unmilled to milled | Sweden | Thompson, 1999, p. 103 | - | 1,3 |
| Wheat, unmilled to milled | Sweden | Andersson, 1998, p. 18 | - | 1,3 |

Table 1b: Data for food processing: fruit and vegetables

| Process | Country | Source | Comment | Ratio input/output |
|---|-----------------|---------------------------------|---|--------------------|
| Apples to apple juice | Sweden | Kiviks muster, 1999 pers. comm. | remnants used as animal fodder | 2,0 |
| Apples to dried apples | USA | USDA, 1992, p. 52 | farm weight/ packed processed weight | 8,0 |
| Apricots to dried apricots | USA | USDA, 1992, p. 52 | farm weight/ packed processed weight | 5,6 |
| Broccoli to frozen broccoli | USA | USDA, 1992, p. 54 | farm weight/frozen weight | 1,3 |
| Brussel sprouts to frozen brussel sprouts | USA | USDA, 1992, p. 54 | farm weight/ frozen weight | 1,3 |
| Cabbage to sauerkraut | USA | USDA, 1992, p. 56 | farm weight/ canned weight | 1,9 |
| Carrots to carrot cubes | Sweden | Mattson, 1999, p.43 | Ref. from 1996, carrot cubes for baby food production | 1,6 |
| Carrots to frozen carrots | USA | USDA, 1992, p. 54 | farm weight / frozen weight | 1,8 |
| Carrots to canned carrots | USA | USDA, 1992, p. 56 | farm weight / canned weight | 1,3 |
| Cauliflower to frozen cauliflower | USA | USDA, 1992, p. 54 | farm weight / frozen weight | 1,4 |
| Coffee to roasted coffee | USA | USDA, 1992, p. 60 | green or decaffeinated coffee/roasted coffee | 1,2 |
| Coffee to instant soluble coffee | USA | USDA, 1992, p. 60 | green on decaffeinated coffee/ instant coffee | 2,5 |
| Corn to frozen corn | USA | USDA, 1992, p. 54 | farm weight/frozen weight | 3,7 |
| Grapes to raisins | USA, California | Klonsky et al, 1997, p. 6 | data for 1997 | 4,1-4,5 |
| Grapes to raisins | USA | USDA, 1992, p. 52 | farm weight/packed processed weight, Thompson sultana | 4,6 |
| Mushrooms to canned mushrooms | USA | USDA, 1992, p. 56 | farm weight/canned weight | 1,4 |
| Oil Palm fruit to oil | Malaysia | Blix and Mattsson , 1998, p. 15 | Ref. from 1995 | 4,0 |
| Olives to oil | USA | Vossen et al, 1999, p. 6 | data for 1999 | 5,3 |
| Oranges to orange juice | - | Arla, info desk, 1999 | ready-to drink-juice | 3,0 |
| Potatoes to chips | USA | USDA, 1992, p. 59 | farm weight/ chips weight | 3,0 |
| Potatoes, unpeeled to peeled | Sweden | Edsjö, 1995, p. 7 | industrial peeling | 1,57 |
| Potatoes to dry potatoes | Sweden | Food packaging, 00 | Dry mashed potatoes for potato flakes | 5,3 |
| Potatoes to frozen potatoes | USA | USDA, 1992, p. 59 | farm weight/frozen weight | 2,0 |
| Prunes to dry prunes | USA | USDA, 1992, p. 52 | farm weight/ packed processed weight | 2,6 |
| Spinach to frozen spinach | USA | USDA, 1992, p. 52 | farm weight/ frozen weight | 1,4 |
| Sugar beets to sugar | Sweden | Danisco AB, 1999, pers. comm. | remaining mass used for animal fodder | 6,5 |

Table 1b: Data for food processing: fruit and vegetables, continued...

| Process | Country | Source | Comment | Ratio input/output |
|-----------------------------------|----------------|---------------------------|---|--------------------|
| Sugarcane to sugar | USA, Louisiana | Pimentel, 1996, Table18.9 | ref. from 1980 | 13,3 |
| Tea leaves to instant soluble tea | USA | USDA, 1992, p. 60 | Dry leaves/ instant soluble | 2,5 |
| Tomatoes to canned tomatoes | USA | USDA, 1992, p. 56 | farm weight/ canned weight | 1,6 |
| Tomatoes to catsup | USA | USDA, 1992, p. 56 | farm weight/ canned weight | 2,5 |
| Tomatoes to tomato juice | USA | USDA, 1992, p. 56 | farm weight/ canned weight | 1,5 |
| Tomatoes to tomato paste | USA | USDA, 1992, p. 56 | farm weight/ canned weight, 33 % solids | 5,4 |
| Tomatoes to tomato puree | USA | USDA, 1992, p. 56 | farm weight from canned weight, 11 % solids | 3,2 |
| Tomatoes to tomato puree | Sweden | Food packaging, 1999 | - | 5,0 |

Table 1c: Data for food processing: animal products

| Process | Country | Source | Comment | Ratio input/output |
|---------------------------|-------------|-----------------------------------|--|--------------------|
| Cream to butter | Sweden | Arla, 1999, info desk, pers.comm. | butter 80 % fat content, made from cream 40 % fat content | 2,0 |
| Milk to butter | Switzerland | Zuber et al., 1996, Annex A 13 | based on the total quantity of milk used for butter production in Switzerland and on the yield of butter in the same year. | 12,5 |
| Milk to cheese | Sweden | Arla, 1999, info desk | - | 10,0 |
| Milk to cream | Sweden | Arla, 1999, info desk | milk with 4% fat content, left in milk 1,5% fat, cream 40 % fat | 15,4 |
| Pork: carcass to cut meat | Sweden | Carlsson-Kanyama, 1998, p. 13 | Losses due to removal of blood and inedible parts | 1,3 |

Table 2: Data for food preparation

| Process | Country | Source | Comment | Ratio input/output |
|--|---------|-------------------------------------|---|--------------------|
| French fries, fried in oven | Sweden | Johannisson och Olsson, 1997, p. 12 | Frozen industrially prepared french fries, 120 gr., prepared at home | 1,00 |
| Chicken, fried on stove | Sweden | Johannisson och Olsson, 1997, p. 12 | Refrigerated chicken, 500 gr., prepared at home | 1,28 |
| Chicken, fried in oven | Sweden | Johannisson och Olsson, 1997, p. 12 | Refrigerated chicken, 500 gr., prepared at home | 1,23 |
| Chicken, fried on stove | Sweden | Johannisson och Olsson, 1997, p. 12 | Frozen chicken, prepared at home, 500 gr. | 1,39 |
| Chicken, fried in oven | Sweden | Johannisson och Olsson, 1997, p. 12 | Frozen chicken, 500 gr. prepared at home | 1,25 |
| Chicken, heated in oven | Sweden | Johannisson och Olsson, 1997, p. 12 | Grilled chicken, heated at home, 500 gr. | 1,10 |
| Chicken, heated in microwave-oven | Sweden | Johannisson och Olsson, 1997, p. 12 | Grilled chicken, heated at home, 500 gr. | 1,08 |
| Chicken, grilling | Sweden | Johannisson och Olsson, 1997, p. 9 | Grilled at a retailer, 500 gr. | 1,10 |
| French fries, fried in oven | Sweden | Johannisson och Olsson, 1997, p. 12 | Deep-frozen industrially prepared french fries, 120 gr., prepared at home | 1,01 |
| Ham, cooking | Sweden | Johannisson and Olsson, 1998, p. 9 | Data for 1998, oven 50 litre | 1,4 |
| Meat balls, fried on stove | Sweden | Johannisson och Olsson, 1997, p. 12 | Frozen, industrially prepared meatballs, 125 gr., prepared at home | 1,04 |
| Meat balls, fried in oven | Sweden | Johannisson och Olsson, 1997, p. 12 | Frozen, industrially prepared meatballs, 125 gr., prepared at home | 1,04 |
| Meat balls, heated in microwave oven | Sweden | Johannisson och Olsson, 1997, p. 12 | Frozen, industrially prepared meatballs, 125 gr., prepared at home | 1,03 |
| Meat balls, fried on stove | Sweden | Johannisson och Olsson, 1997, p. 12 | Refrigerated, industrially prepared meatballs, 125 gr., prepared at home | 1,04 |
| Meat balls, fried in oven | Sweden | Johannisson och Olsson, 1997, p. 12 | Refrigerated, industrially prepared meatballs, 125 gr., prepared at home | 1,04 |
| Meat balls, heated in microwave oven | Sweden | Johannisson och Olsson, 1997, p. 12 | Refrigerated, industrially prepared meatballs, 125 gr., prepared at home | 1,03 |
| Meat balls, fried on stove | Sweden | Johannisson och Olsson, 1997, p. 12 | Frying on stove, 125 gr., prepared at home | 1,25 |
| Meat balls, fried on stove | Sweden | Johannisson och Olsson, 1997, p. 9 | Industrially prepared | 1,20 |
| Potatoes, peeling and boiling on stove | Sweden | Johannisson och Olsson, 1997, p. 12 | Losses mainly from peels, prepared at home | 1,25 |

Appendix 3

Table 3: Data for food losses

| Process | Country | Source | Comment | Ratio delivered/used or sold quantity |
|--|------------|-------------------------------------|---|---------------------------------------|
| Bread: delivered to retailer/sold to customer | Sweden | Johannisson and Olsson, 1998, p. 11 | Estimation made by bread manufacturer | 1,05 |
| Bread: bought by customer/eaten | Sweden | NFA, 1985, p. 66 | data for 1984 | 1,03 |
| Bananas: harvested/exported | Costa Rica | Naturskyddsföreningen, 1996, p. 25 | 16-25 % of the harvested bananas are sold as second class fruit or dumped | 1,25 |
| Cabbage: bought by customer/eaten | Sweden | NFA, 1985, p. 66 | data for 1984 | 1,22 |
| Carrots for industrial use:harvested on farm/accpeted by factory | Sweden | Mattson, 1999, p. 15 | Integrated farming | 1,16 |
| Carrots for industrial use:harvested on farm/accpeted by factory | Sweden | Mattson, 1999 | Organic farming | 1,19 |
| Carrots: bought by consumer/eaten | Sweden | NFA, 1985, p. 66 | data for 1984 | 1,39 |
| Cream: bought by customer/eaten | Sweden | NFA, 1985, p. 66 | data for 1984 | 1,05 |
| Feed: delivered to fodder factory/sold | Sweden | Carlsson-Kanyama, 1998, p. 15 | data for 1997 | 1,05 |
| Food: bought by schoolkitchen/eaten | Sweden | NFA, 1985, p. 31 | data for 1978 | 1,15 |
| Food: bought by restaurant/eaten | Sweden | NFA, 1985, p. 31 | data for 1978 | 1,27 |
| Food: bought by hospitalkitchen/eaten | Sweden | NFA, 1985, p. 31 | data for 1978 | 1,43 |
| Food: bought by retailers/sold | Sweden | NFA, 1985, p. 20 | data for 1979 | 1,02 |
| Meat: bought by customer/neaten | Sweden | NFA, 1985, p. 66 | data for 1984 | 1,20 |
| Milk: bought by customer/consumed | Sweden | NFA, 1985, p. 66 | data for 1984 | 1,02 |
| Milk: milked from cows/reaching mik storage facility on farm | Norway | Moller and Hogaas, 1997, p. 36 | - | 1,0036 |
| Potatoes: bought by customer/eaten | Sweden | NFA, 1985, p. 66 | data for 1984 | 1,19 |
| Potatoes: entering long-term storage/sold | Sweden | Carlsson-Kanyama, 1998, p. 12 | data for 1995 | 1,22 |

Table 4: Feed Conversion: Eggs

| Process | Country | Source | Comment | Feed consumed, kg | Unit |
|---|-------------|-----------------------------------|--|-------------------|---------------|
| Eggs, free range | UK | Nix, 1999, p. 110 | 52 weeks laying period, 288 eggs produced | 2,7 | per kg of egg |
| Eggs, cage | UK | Nix, 1999, p. 110 | 52 weeks laying period, 294 eggs produced | 2,4 | per kg of egg |
| Eggs, cage | Sweden | Naturvårdsverket, 1997, p. 29,125 | Chickens bought 16 weeks old | 2,4 | per kg of egg |
| Eggs, cage | Sweden | SLU, 1996, p. 278 | - | 2,2 | per kg of egg |
| Eggs, free range | Sweden | SLU, 1996, p. 278 | - | 2,4 | per kg of egg |
| Eggs, cage | Sweden | Johansson & Drake, 1995, p. 17 | Chickens bought 18 weeks old, 60 weeks laying period | 2,7 | per kg of egg |
| Eggs, deep litter eggs, without moult | Switzerland | FiBL 1998, p. 33 | 420 days laying period, 82% egg production performance, inclusive 14 days unproductive, without 126 first days | 2,4 | per kg of egg |
| Eggs, deep litter eggs, with moult | Switzerland | FiBL 1998, p. 33 | 560 days laying period, 78% egg production performance, inclusive 14 days unproductive, without 126 first days | 2,5 | per kg of egg |
| Eggs, free range | Switzerland | FiBL 1998, p. 33 | 364 days laying period, 82% egg production performance, inclusive 14 days unproductive, without 126 first days | 2,5 | per kg of egg |
| Organic eggs, deep litter eggs, without moult | Switzerland | FiBL 1998, p. 33 | 364 days laying period, 82% egg production performance, inclusive 14 days unproductive, without 126 first days | 2,5 | per kg of egg |

Table 5: Feed Conversion: Birds

| Process | Country | Source | Comment | Feed consumed, kg | Unit |
|----------------------------------|-------------|------------------------------------|--|-------------------|--------------------------------|
| Broilers, feeding | UK | Nix, 1999, p. 113 | bird sold at 43 days, 2,3 kg | 4,4 | per bird, live weight |
| Broilers, feeding | Sweden | Naturvårdsverket, 1997, p. 29, 123 | bird sold at 37 days | 2,9 | per kg of bird, carcass weight |
| Broilers, feeding | Switzerland | FiBL 1998, p. 37 | birds sold at 39 days, 2.1 kg | 3,6 | per bird, live weight |
| Ducks, feeding | UK | Nix, 1999, p. 111 | Aylesbury type, 7 weeks old, 2,7 kg | 9,5 | per bird, live weight |
| Geese, feeding | UK | Nix, 1999, p. 113 | traditional farm fresh, free range and dry plucked, 5 kg | 20,0 | per bird, live weight |
| Pullets, rearing | UK | Nix, 1999, p. 111 | 17 weeks old pullets | 6,3 | per bird |
| Roasters (Capons), feeding | UK | Nix, 1999, p. 112 | Christmas males only, 12 weeks, 4,6 kg | 14,2 | per bird, live weight |
| Turkeys, all year round, feeding | UK | Nix, 1999, p. 112 | bird sold at 20 weeks, sexed stags, 12,8 kg | 45,0 | per bird, live weight |
| Turkeys, feeding | Switzerland | FiBL 1998, p. 37 | birds sold at 105 days, 12.75 kg | 27,9 | per bird, live weight |

Table 6: Feed Conversion: Pigs

| Process | Country | Source | Comment | Feed consumed, kg | Unit |
|--|-------------|-------------------------------------|---|-------------------|-------------------------------|
| Breeding and rearing to 30 kg of live weight | UK | Nix, 1999, p. 107 | Including fodder for sow, boar and piglets, 21 weaners per sow per year | 102 | per piglet |
| Breeding and rearing to 25 kg liveweight | Sweden | SLU, 1996, p. 233 | Including fodder for sow and piglets, 21 weaners per sow per year | 93 | per piglet |
| Breeding and rearing to 25 kg liveweight | Sweden | SLU, 1996, p. 251 | Including fodder for sow and piglets, 18 weaners per sow per year. Ref. from 1993 | 94 | per piglet |
| Breeding, rearing and feeding | Sweden | Naturvårdsverket, 1997a, p. 29, 122 | to 78 kg of carcassweight, incl. fodder for sow | 4,50 | per kg of pig, carcass weight |
| Breeding, rearing and feeding | Denmark | Weidema, 1995, p. 121 | to 98 kg liveweight, ref. from 1991-1994, typical feed, incl. fodder for sow | 303 | per pig, live weight |
| Feeding from 19.4 kg liveweight | UK | Nix, 1999, p. 107 | to 89.3 kg liveweight | 163 | per pig, live weight |
| Feeding from 30 kg liveweight | UK | Nix, 1999, p. 107 | to 88,5 kg of liveweight | 170 | per pig, live weight |
| Feeding from 30 kg of liveweight | UK | Nix, 1999, p. 107 | to 92,5 kg of liveweight | 184 | per pig, live weight |
| Feeding from 25 kg liveweight | Sweden | SLU, 1996, p. 251, ref. from 1993 | to 110 kg of liveweight | 240 | per pig, live weight |
| Feeding from 25 kg liveweight | Sweden | SLU, 1996, p. 266 | to 114 kg of live weight | 256 | per pig, live weight |
| Feeding from 25 kg of liveweight | Sweden | Johansson & Drake, 1995, p. 17 | to 107 kg live weight | 259 | per pig, live weight |
| Feeding from 24 kg liveweight | Switzerland | FiBL 1998, p. 29 | to 102 kg liveweight, | 205 | per pig, live weight |
| Feeding from 24 kg liveweight | Switzerland | FiBL 1998, p. 29 | to 102 kg liveweight, | 221 | per pig, live weight |

Table 7: Feed Conversion: Sheep

| Process | Country | Source | Comment | Feed consumed, kg | Unit |
|----------------------|---------|---------------------------------|--|-------------------|---------------------------------|
| Breeding and feeding | Sweden | Naturvårdsverket, 1997a, p. 120 | Integrated production, lambs slaughtered at 17 kg carcass weight | 12,15 | per kg of sheep, carcass weight |

Table 8: Feed Conversion: Young bulls and steers

| Process | Country | Source | Comment | Feed consumed, kg | Unit |
|---------------------------------|-------------|-----------------------------------|---|-------------------|--------------------------------|
| Feeding spring born bull calves | Sweden | Naturvårdsverket, 1997a, p. 114 | from 70 kg to 265 kg carcass weight | 2728 | per young bull, carcass weight |
| Feeding autumn born bull calves | Sweden | Naturvårdsverket, 1997a, p. 114 | from 70 kg to 300 kg carcass weight | 3409 | per young bull, carcass weight |
| Feeding bull calves | Sweden | SLU, 1996, p. 211, ref. from 1996 | feeding to 15-16 months, carcassweight 250 kg | 2680 | per young bull, carcass weight |
| Feeding bull calves | Sweden | SLU, 1996, p. 211, ref. from 1996 | feeding to 16-18 months, carcass weight 275 kg | 3560 | per young bull, carcass weight |
| Feeding a steer | Sweden | SLU, 1996, p. 211, ref. from 1996 | feeding to 12-24 months, carcassweight 275 kg | 4150 | per young bull, carcass weight |
| Feeding a fattening bull | Sweden | SLU, 1996, p. 212, ref. from 1996 | feeding to 11-12 months, carcass weight 220 kg | 2017 | per young bull, carcass weight |
| Feeding a bull, intensive | Switzerland | FIBL, 1998, p. 16 | Feeding from 65 kg to 525 kg live weight, 278 kg carcass weight | 2427 | Per bull, carcass weight |
| Feeding a bull, half-intensive | Switzerland | FIBL, 1998, p. 16 | Feeding from 65 kg to 525 kg live weight, | 2530 | Per bull, live weight |

Table 9: Feed Conversion: Dairy farming

| Process | Country | Source | Comment | Feed consumed, kg | Unit |
|-------------------------------------|-------------|--------------------------------|---|-------------------|-------------------|
| Dairy cows, Holstein Friesians | UK | Nix, 1999, p. 67 | 6250 kg milk/cowyear, feed from 0,5 forage ha per cow not incl. | 1690 | per year |
| Dairy cows | Sweden | Naturvårdsverket, 1997a, p.110 | 7 300 kg milk/cowyear. No allocation to meat | 5820 | per year |
| Dairy cows | Sweden | SLU, 1996, p. 154 | 6 000 kg milk/cowyear. No allocation to meat. Ref. from 1995 | 5422 | per year |
| Dairy cows | Sweden | SLU, 1996, p. 154 | 10 000 kg milk/cowyear. No allocation to meat. Ref. from 1995 | 6976 | per year |
| Dairy cows | Sweden | Johansson & Drake,1995, p. 17 | 7800 kg milk/cowyear, coarse fodder and pasture excl. No allocation to meat | 1951 | per year |
| Dairy cows, no silage zone | Switzerland | FiBL 1998, p. 12 | 4740 kg milk/cowyear + 260 kg for calf | 5765 | DM per year |
| Dairy cows, organic, silage zone | Switzerland | FiBL 1998, p. 12 | 4740 kg milk/cowyear + 260 kg for calf | 5651 | DM per year |
| Dairy cows, organic, no silage zone | Switzerland | FiBL 1998, p. 12 | 4740 kg milk/cowyear + 260 kg for calf | 5782 | DM per year |
| Dairy cows, no silage zone | Switzerland | FIBL, 1998, p.12 | 5740 kg milk + 260 kg for calf | 6401 | DM per year |
| Dairy cows, organic, silage zone | Switzerland | FiBL 1998, p. 13 | 5740 kg milk + 260 kg for calf | 6420 | DM per year |
| Dairy cows, organic, no silage zone | Switzerland | FiBL 1998, p. 13 | 5740 kg milk + 260 kg for calf | 6435 | DM per year |
| Dairy goats | UK | Nix, 1999, p. 100 | 800 litres of milk/goatyear, not incl. 0,9 kg DM forage/litre | 1 | per litre of milk |

Table 10: Feed Conversion:Heifers

| Process | Country | Source | Comment | Feed consumed, kg | Unit |
|--|-------------|--------------------------------|--|-------------------|---------------|
| Feeding | Sweden | Naturvårdsverket, 1997a, p.111 | from 70 kg to 24 months, 500 kg live weight. Data for 1995 | 3488 | per heifer |
| Feeding | Sweden | SLU, 1996, p. 151 | up to 24 months, 470 kg live weight. Ref. from 1989 | 3600 | per heifer |
| Feeding | Sweden | SLU, 1996, p. 151 | up to 30 months, 500 kg live weight. Ref. from 1989 | 4361 | per heifer |
| Feeding, organic, fattening on pasture | Switzerland | FiBL 1998, p. 17 | from 65 kg to 550 kg live weight | 2413 | per heifer |
| Feeding, half-intensive, organic | Switzerland | FiBL 1998, p. 17 | from 65 kg to 525 kg live weight | 2529 | per heifer |
| Feeding, extensive | Switzerland | FiBL 1998, p. 16 | from 65 kg to 500 kg live weight | 3225 | DM per heifer |

Table 11: Feed conversion: Fish

| Process | Country | Source | Comment | Feed consumed, kg | Unit |
|---------------|---------|-------------------------------|--|-------------------|----------------|
| Rainbow trout | UK | Nix, 1999, p. 112 | Fish growing to 350g from fingerlings at 4,5 g | 1,1 | per kg of fish |
| Salmon | Norway | Ewos Norway, pers. comm. 1999 | - | 1,0 | per kg of fish |

Table 12: Dressing shares: Cattle, pigs, poultry

| Process | Country | Source | Comment | Dressing share |
|-----------------|-------------|---|---|----------------|
| Beef | Switzerland | FiBL 1998, p. 4 | - | 0,50-0,52 |
| Broiler | Sweden | Naturvårdsverket, 1997a, p. 123 | - | 0,73 |
| Chicken | USA | USDA, 1992, p. 24, live weight to ready to cook yield | data for 1990 | 0,72 |
| Calves | Switzerland | FiBL 1998, p. 4 | - | 0,58 |
| Calves | Switzerland | FiBL 1998, p. 4 | - | 0,58 |
| Calves | USA | USDA, 1992, p. 19 | data for 1990 | 0,63 |
| Cattle | USA | USDA, 1992, p. 19 | data for 1990 | 0,62 |
| Cow | Switzerland | FiBL 1998, p. 4 | slaughter yield | 0,44-0,48 |
| Ducks | USA | USDA, 1992, p. 24, live weight to ready to cook yield | data for 1990 | 0,71 |
| Heifer | Switzerland | FiBL 1998, p. 4 | - | 0,51-0,53 |
| Hogs | USA | USDA, 1992, p. 19 | data for 1990 | 0,72 |
| Lamb | Switzerland | FiBL 1998, p. 4 | fattening lamb, to 40 kg live weight | 0,48 |
| Lamb | Switzerland | FiBL 1998, p. 4 | fattening lamb, to 40 kg live weight | 0,48 |
| Pig, fatstock | Switzerland | FiBL 1998, p. 5 | - | 0,79 |
| Pig, Yorkshire | Sweden | SLU, 1996, p. 261, ref. from 1974 | 90 kg liveweight at slaughter, castrated pig | 0,71 |
| Pig, Yorkshire | Sweden | SLU, 1996, p. 261, ref. from 1974 | 130 kg liveweight at slaughter, castrated pig | 0,74 |
| Pig, Yorkshire | Sweden | SLU, 1996, p. 261, ref. from 1974 | 90 kg liveweight at slaughter, sow | 0,71 |
| Pig, Yorkshire | Sweden | SLU, 1996, p. 261, ref. from 1974 | 110 kg liveweight at slaughter, boar | 0,72 |
| Sheep and lambs | USA | USDA, 1992, p. 19 | data for 1990 | 0,51 |
| Turkeys | USA | USDA, 1992, p. 24, live weight to ready to cook yield | data for 1990 | 0,79 |

Table 13: Dressing shares: Fish

| Process | Country | Source | Comment | Dressing share |
|-------------------------------|---------|--------------|-----------------------------------|----------------|
| Salmon with head | Sweden | SCB, 1995, a | From live weight to landed weight | 0,91 |
| Trout with head | Sweden | SCB, 1995, a | From live weight to landed weight | 0,87 |
| Cod without head | Sweden | SCB, 1995, a | From live weight to landed weight | 0,71 |
| Cod with head | Sweden | SCB, 1995, a | From live weight to landed weight | 0,87 |
| Non specified fish with heads | Sweden | SCB, 1995, a | From live weight to landed weight | 0,87 |
| Shark, without head | Sweden | SCB, 1995, a | From live weight to landed weight | 0,80 |
| Shrimp, boiled | Sweden | SCB, 1995, a | From live weight to landed weight | 0,87 |
| Herring | Sweden | SCB, 1995, a | From live weight to landed weight | 0,80 |

Table 14: Animal body parts in percentage of live weight

| Animal | Country | Source | Comment | Share |
|------------|-------------|-----------------|----------------------------------|-------|
| Beef meat | Switzerland | GSF, 1985, p.79 | Parts in percent of live weight: | |
| | | | ready to sell | 0.35 |
| | | | stomach, intestine, waste | 0.25 |
| | | | fat | 0.10 |
| | | | bones | 0.09 |
| | | | skin | 0.08 |
| | | | feet, head | 0.05 |
| | | | entrals | 0.03 |
| | | | blood | 0.03 |
| loss | 0.02 | | | |
| Calve meat | Switzerland | GSF, 1985, p.80 | Parts in percent of live weight: | |
| | | | ready to sell | 0.39 |
| | | | stomach, intestine, waste | 0.12 |
| | | | fat, bones, loss | 0.21 |
| | | | skin | 0.10 |
| | | | feet, head | 0.11 |
| | | | entrals | 0.04 |
| | | | blood | 0.03 |
| Pig meat | Switzerland | GSF, 1985, p.81 | Parts in percent of live weight: | |
| | | | ready to sell | 0.45 |
| | | | stomach, intestine, waste | 0.135 |
| | | | Skin, bones, loss | 0.17 |
| | | | Bacon | 0.20 |
| | | | entrals | 0.035 |
| | | | blood | 0.03 |
| | | | rest | 0.04 |
| Lamb meat | Switzerland | GSF, 1985, p.82 | Parts in percent of live weight: | |
| | | | ready to sell | 0.35 |
| | | | stomach, intestine, waste | 0.15 |
| | | | Skin, bones, fat | 0.29 |
| | | | Head, feet | 0.11 |
| | | | entrals | 0.07 |
| | | | blood | 0.03 |
| | | | rest | 0.04 |