



ANEXO

Tabla A-I. Excreción de amonio y retención proteica (NPU o PER) relacionados con la dieta y la talla del pez para la dorada y otros teleósteos.

| Especies | Talla (grs) | Dieta | | Ración (% PT) | Excreción (mg N-NH ₄ ⁺ /kg.día) | Retención Proteica (NPU ó PER) | Fuente |
|-------------------------------------|-------------|------------|----------|---------------|---|--------------------------------|-----------------------------------|
| | | (%PRT) | (%CBH) | | | | |
| Dorada (<i>S. aurata</i>)—21°C | 13.32 | 60.1 | 9.1 | 5 | 506 | 27.5 | Este trabajo (E1) |
| | | 57.0 | 15.0 | | 404 | 31.0 | |
| | | 53.8 | 20.2 | | 392 | 32.5 | |
| | | 46.6 | 29.3 | | 301 | 32.2 | |
| Dorada (<i>S. aurata</i>)—21°C | 29.23 | 60.1 | 9.1 | 3 | 709 | 19.9 | Este trabajo (E1) |
| | | 57.0 | 15.0 | | 471 | 14.1 | |
| | | 53.8 | 20.2 | | 456 | 24.9 | |
| | | 46.6 | 29.3 | | 296 | 26.8 | |
| Dorada (<i>S. aurata</i>)—16°C | 120 | 47 | 14.5 | 0.5 | 116 | 36.6 | Este trabajo (E4) |
| Dorada (<i>S. aurata</i>) | 12.6 | 55.19 | 13.0 | 1.5 | 411.7 | — | Dosdat y col. (1996) |
| | 146 | | | 0.5 | 108.0 | — | |
| Dorada (<i>S. aurata</i>) | 40 | 55.78 | 5.44 | 0.5 | 380-400 | 24.91 | Robaina y col. (1995) |
| Dorada (<i>S. aurata</i>) | 3 | 55.19 | — | 4.0-5.0 | 1032 | — | Porter y col. (1987) |
| | 40 | | | 2.0-2.5 | 365 | | |
| | 45 | | | 2.0-2.5 | 264 | | |
| | 90 | | | 1.4-2.0 | 353 | | |
| Rodaballo (<i>S. maximus</i>) | 13.9 | 55.19 | 13.0 | 1.5 | 243.6 | — | Dosdat y col. (1996) |
| | 179 | | | 0.5 | 74.0 | — | |
| Lenguado (<i>P. platessa</i>) | 3 | Alim. Vivo | Saciedad | | 720 | — | Jobling (1981a) |
| | 40 | | | | 102 | | |
| | 90 | | | | 64 | | |
| Lenguado (<i>H. hippoglossus</i>) | 140 | 60.0 | 6.9 | 0.6+ | — | 40.6 | Helland y Grisdale-Helland (1998) |
| | | 57.5 | 10.4 | | | 42.6 | |
| | | 56.5 | 7.3 | | | 38.4 | |
| | | 54.5 | 10.2 | | | 39.6 | |
| | | 53.9 | 7.1 | | | 41.7 | |
| | | 51.1 | 10.5 | | | 45.7 | |

Tabla A-I. Continuación...

| Especies | Talla (grs) | Dieta | | Ración (% PT) | Excreción (mg N-NH ₄ ⁺ /kg.día) | Retención Proteica (NPU ó PER) | Fuente |
|----------------------------------|-------------|--------|--------|---------------|---|--------------------------------|----------------------------|
| | | (%PRT) | (%CBH) | | | | |
| Lenguado (<i>P. flesus</i>) | 26.65 | | | 1.62 | 610 | 40.11 | Carter y col. (1998) |
| | 48.22 | 57.27 | 22.5 | 1.75 | 270 | 62.98 | |
| | 60.57 | | | 2.95 | 420 | 28.9 | |
| Lubina (<i>D. labrax</i>)—15°C | 750 | 30 | 39.2 | 1.1 | – | 0.81 | Hidalgo y Alliot (1988) |
| | | 40 | 27.2 | | | 0.91 | |
| | | 50 | 15.0 | | | 0.95 | |
| | | 60 | 2.8 | | | 0.72 | |
| Lubina (<i>D. labrax</i>)—20°C | 920 | 30 | 39.2 | 1.75 | – | 1.13 | Hidalgo y Alliot (1988) |
| | | 40 | 27.2 | | | 1.33 | |
| | | 50 | 15.0 | | | 1.28 | |
| | | 60 | 2.8 | | | 0.98 | |
| Lubina (<i>D. labrax</i>) | 75 | 44 | 11.0 | 1.0 | 255.6 | 1.32 | Ballestrazzi y col. (1994) |
| | | 49 | 10.5 | | 254.0 | 1.28 | |
| | | 54 | 7.5 | | 266.6 | 1.21 | |
| Lubina (<i>D. labrax</i>) | 11.4 | 55.19 | 13.0 | 1.5 | 454.3 | – | Dosdat y col. (1996) |
| | 132 | | | 0.5 | 151.8 | – | |
| Lubina (<i>D. labrax</i>) | 2.5-3.0 | 54 | 16.0 | 2.66 | – | 1.11 | Perez y col. (1997) |
| Lubina (<i>D. labrax</i>) | 200 | 48 | 25 | 6.5 | 285 | – | Robaina y col. (1999) |
| | | 60 | 20 | 8.2 | 389 | – | |
| Lubina (<i>D. labrax</i>) | 6.0 | 50 | 22.5 | 4.0 | – | 1.36 | Gouveia y Davies (2000) |
| | | 50 | 17.0 | | | 1.49 | |
| Lubina (<i>D. labrax</i>) | 6.0 | 50 | 28 | 2.3 | 805 | 1.59 | Peres y Oliva-Teles (2002) |
| | | 50 | 27 | 2.0 | 555 | 1.72 | |

Tabla A-I. Continuación...

| Especies | Talla (grs) | Dieta | | Ración (% PT) | Excreción (mg N-NH ₄ ⁺ /kg.día) | Retención Proteica (NPU ó PER) | Fuente |
|--------------------------------|-------------|--------|--------|---------------|---|--------------------------------|-----------------------|
| | | (%PRT) | (%CBH) | | | | |
| Salmón (<i>O. nerka</i>) | 28.9 | 55.3 | – | 3.0 | 349 | – | Brett y Zala (1975) |
| Trucha (<i>S. trutta</i>) | 8.2 | 55.19 | 13.0 | 1.5 | 411.6 | | Dosdat y col. (1996) |
| | 106 | | | 0.5 | 127.3 | | |
| Trucha (<i>O. mykiss</i>) | 70 | 44.2 | 30.1 | 1.2 | 304 | 43.7 | Brauge y col. (1995) |
| | | 42.9 | 25.8 | | 308 | 43.9 | |
| | | 42.8 | 22.8 | | 294 | 47.7 | |
| Trucha (<i>O. mykiss</i>) | 13.0 | 55.19 | 13.0 | 1.5 | 355.5 | | Dosdat y col. (1996) |
| | 98.0 | | | 0.5 | 152.4 | | |
| Trucha (<i>S. gairdneri</i>) | 75.5 | 74 | 9.0 | 0.5 | 580.0 | 64.5 | Rychly (1980) |
| | 71.4 | 58 | 26 | | 425.0 | 65.9 | |
| | 86.6 | 32 | 53 | | 315.0 | 56.6 | |
| Bacalao (<i>G. morhua</i>) | 250-500 | 28.8 | 11.3 | 2.0 | 11 | – | Lied y Braaten (1984) |
| | | 38.3 | 9.2 | | 90 | | |
| | | 48.0 | 7.7 | | 90 | | |
| | | 57.8 | 6.8 | | 118 | | |
| | | 67.4 | 6.0 | | 157 | | |

Tabla A-II. Excreción de amonio y retención proteica (NPU o PER) relacionados con la temperatura para la dorada y otros teleósteos.

| Especies | Talla (grs) | Dieta | | Ración (% PT) | Temperatura (°C) | Excreción (mg N-NH ₄ ⁺ /kg.día) | Retención Proteica (NPU ó PER) | Fuente |
|------------------------------|-------------|--------|--------|---------------|------------------|---|--------------------------------|----------------------------|
| | | (%PRT) | (%CBH) | | | | | |
| Dorada (<i>S. aurata</i>) | 4.3-4.6 | 53.8 | 20.2 | 3.0-4.0 | 15 | 407 | 16.6 | Este trabajo (EZ) |
| | 5.5-6.0 | | | | 25 | 474 | 31.0 | |
| Dorada (<i>S. aurata</i>) | 40-45 | 55.2 | - | 2.0-2.5 | 21 24 | 264 365 | - | Porter y col. (1987) |
| Brema (<i>A. brama</i>) | 0.39 | 58.4 | - | 5-15 | 10 | + | + | Tátrai (1986) |
| | a | | | | 15 | ++++ | ++ | |
| | 520 | | | | 20 | +++++ | +++ | |
| Brema (<i>A. brama</i>) | 0.075 | 58.4 | - | 10 15 | 15 | 60-270* | - | Tátrai y Penczak (1985) |
| | a | | | | 20 | 30-160* | | |
| | 1.400 | | | | 20 | 80-450* 95-170* | | |
| Lubina (<i>D. labrax</i>) | 750 | 50 | 15 | 1.1 1.75 | 15 | - | 0.95 | Hidalgo y Alliot (1988) |
| | 920 | | | | 20 | - | 1.28 | |
| Lubina (<i>D. labrax</i>) | 5.5 | 48 | 40.0 | Sac. | 18 | - | 32.9 | Peres y Oliva-Teles (1999) |
| | | 36 | 42.2 | | 18 | | 37.4 | |
| | | 48 | 40.0 | | 25 | | 27.9 | |
| | | 36 | 42.2 | | 25 | | 30.9 | |
| | | | | | 15 | | | |
| Mero (<i>E. areolatus</i>) | 125 | 69 | - | 1-10 | 20 | + | - | Leung y col. (1999) |
| | | | | | 25 | ++ | | |
| | | | | | 25 | +++ | | |
| | | | | | 30 | ++++ | | |
| Trucha (<i>O. mykiss</i>) | 70 | 42.9 | 25.8 | 1.2 | 8 | 185 | 44.7 | Brauge y col. (1995) |
| | | | | | 18 | 298 | 47.7 | |
| Trucha (<i>O. mykiss</i>) | 70 | 42.8 | 22.8 | 1.2 | 8 18 | 298 | 44.6 43.9 | Brauge y col. (1995) |

Tabla A-III. Excreción de amonio y retención proteica (NPU o PER) relacionados con el tamaño de la ración de alimento para la dorada y otros teleósteos

| Especies | Talla (grs) | Dieta | | Ración (% PT) | Temperatura (°C) | Excreción (mg N-NH ₄ ⁺ /kg.día) | Retención Proteica (NPU ó PER) | Fuente |
|---------------------------------|-------------|--------|--------|---------------|------------------|---|--------------------------------|---------------------------|
| | | (%PRT) | (%CBH) | | | | | |
| Dorada (<i>S. aurata</i>) | 3.9-4.3 | 53.8 | 20.2 | 1.5-2.0 | 15 | 329 | 29.8 | Este trabajo (E2) |
| | 4.3-4.6 | | | 3.0-4.0 | | 407 | 16.6 | |
| Dorada (<i>S. aurata</i>) | 5.5-6.0 | 53.8 | 20.2 | 3.0-4.0 | 25 | 474 | 31.0 | Este trabajo (E2) |
| | 9.2-9.5 | | | 6.0-8.0 | | 695 | 26.9 | |
| Bacalao (<i>G. morhua</i>) | 200 | 40-69 | 4.3 | 0.5 | 14 | 81 | + | Ramnarine y col. (1987) |
| | | | | 1.0 | | 154 | ++ | |
| | | | | 2.0 | | 191 | +++ | |
| | | | | 2.5 | | 308 | ++++ | |
| | | | | 3.0 | | 315 | ++++ | |
| | | | | 3.5 | | 287 | +++++ | |
| Mero (<i>E. areolatus</i>) | 125 | 69 | - | 2 | 15 | + | - | Leung y col. (1999) |
| | | | | 4 | | ++ | | |
| | | | | 6 | | +++ | | |
| | | | | 8 | | ++++ | | |
| | | | | 10 | | +++++ | | |
| Rodaballo (<i>S. maximus</i>) | 70-110 | - | - | Sac. | 8 | 81.4 | - | Burel y col. (1996) |
| | | | | | 11 | 88.0 | | |
| | | | | | 14 | 103.4 | | |
| | | | | | 17 | 103.0 | | |
| Lenguado (<i>R. tapirina</i>) | 2 | 49.0 | 16.5 | 1 | 17.5 | 189 | 23.88 | Verbeeten y col. (1999) |
| | | | | 2 | | 241 | 23.68 | |
| | | | | 3 | | 269 | 21.65 | |
| Rodaballo (<i>S. maximus</i>) | 60 | 56-57 | - | 1.2 | 19.0 | - | 23.4 | Oliva-Teles y col. (1999) |
| | | | | 0.94 | | - | 30.9 | |

Tabla A-IV. Excreción de amonio, retención proteica (NPU o PER) y crecimiento relacionados con el contenido de Cr₂O₃ en el alimento para la dorada y otros teleósteos.

| Especies | Talla (grs) | Dieta (%PRT) | Dieta (%CBH) | Fuente de CBH | Cr ₂ O ₃ (%dieta) | Excreción (mg N-NH ₄ ⁺ /kg.día) | Utilización Proteica (NPU ó PER) | Eficiencia Alimentación (FER) | Fuente |
|--|-------------|--------------|--------------|---------------|---|---|----------------------------------|-------------------------------|----------------------|
| Dorada (<i>S. aurata</i>) | 20 | 50 | 25 | Almidón | 0.0 | 510 | 29.6 | 0.71 | Este trabajo (E3) |
| | | | | | 0.5 | 384 | 25.6 | 0.64 | |
| | | | | | 1.0 | 405 | 28.7 | 0.69 | |
| | | | | | 2.0 | 417 | 30.2 | 0.72 | |
| Tilapia híbrida (<i>O. niloticus</i> X <i>O. aureus</i>) | 1.13 | 30 | 40 | Glucosa | 0.002 | – | * | ** | Shiau y Chen (1993) |
| | | | | Almidón | 0.002 | – | ** | * | |
| Tilapia híbrida (<i>O. niloticus</i> X <i>O. aureus</i>) | 1.23 | 30 | 40 | Glucosa | 0.0 | – | 43.8 | – | Shiau y Lin (1993) |
| | | | | almidón | 0.006 | – | 45.3 | – | |
| | | | | | 0 | – | 53.8 | – | |
| Tilapia híbrida (<i>O. niloticus</i> X <i>O. aureus</i>) | 1.11 | 40 | 34 | Glucosa | 0.5 | – | 12.5 | 0.5 | Shiau y Liang (1995) |
| | | | | Almidón | 2.0 | – | 6.0 | 0.32 | |
| | | | | | 0.5 | – | 32.6 | 1.05 | |
| | | | | | 2.0 | – | 35.0 | 1.0 | |

NOTA: Cuando las unidades no son las mismas, el nivel del efecto se representa por símbolos “**”.

Tabla A-IV. Continuación...

| Especies | Talla (grs) | Dieta (%PRT) | Dieta (%CBH) | Fuente de CBH | Cr ₂ O ₃ (% dieta) | Excreción (mg N-NH ₄ ⁺ /kg.día) | Utilización Proteica (NPU ó PER) | Eficiencia Alimentación (FER) | Fuente | | | | | |
|---|-------------|--------------|--------------|---------------|--|---|----------------------------------|-------------------------------|--------------------|---|------|------|------|--|
| Tilapia híbrida (<i>O. niloticus</i> X <i>O. aureus</i>) | 0.55 | 33 | 40 | Glucosa | 0 | | 2.32 | 0.87 | Shiau y Shy (1998) | | | | | |
| | | | | | 0.002 | | 2.45 | 0.88 | | | | | | |
| | | | | | 0.01 | | 2.29 | 0.85 | | | | | | |
| | | | | | 0.05 | – | 2.33 | 0.85 | | | | | | |
| | | | | | 0.1 | | 2.38 | 0.90 | | | | | | |
| | | | | | 0.3 | | 2.68 | 1.02 | | | | | | |
| | | | | | 1.0 | | 2.35 | 0.88 | | | | | | |
| | | | | | 5.0 | | 2.16 | 0.83 | | | | | | |
| | | | | | | | | | | | 3.42 | 1.03 | | |
| | | | | | | | | Dextrina | | 0 | | 2.93 | 0.88 | |
| Bagre (<i>I. punctatus</i>) | 5.0 | 30 | 33 | Glucosa | 0.05 | | 3.14 | 0.94 | Ng y Wilson (1997) | | | | | |
| | | | | | 0.1 | | 3.13 | 0.94 | | | | | | |
| | | | | | 0.2 | – | 3.08 | 0.92 | | | | | | |
| | | | | | 0.4 | | 3.18 | 0.95 | | | | | | |
| | | | | | 1.0 | | 3.10 | 0.93 | | | | | | |
| | | | | | 5.0 | | 3.02 | 0.91 | | | | | | |
| | | | | | 10.0 | | 3.00 | 0.90 | | | | | | |

Tabla A-V. Actividad de algunas enzimas claves en el control de la gluconeogénesis/glucólisis y vía de las pentosas en el hígado de la dorada *Sparus aurata* (en mU/mg de proteína).

| Talla (grs) | Dieta | | Ración (% PT) | T°C | Glucólisis | | | | | Gluconeogénesis | | Vía de las Pentosas | | Fuente |
|-------------|--------|--------|---------------|-----|------------|-------|------|----------------------------|-----|----------------------------|-----------|---------------------|-----------------------------|--------|
| | (%PRT) | (%CBH) | | | GK | 6PF2K | 6PFK | Fru-2,6-P ₂ asa | PK | Fru-1,6-P ₂ asa | Glu-6P DH | 6-PG DH | | |
| 20.0 | 56 | 19 | 1.5 | 20 | - | - | 19.6 | - | 264 | - | - | - | Bonamusa (1991) | |
| | 44 | 35 | | | | | 28.0 | | 394 | | | | | |
| | 17 | 69 | | | | | 36.0 | | 357 | | | | | |
| 25 | 58 | 9.9 | 2.0 | 20 | - | 16.6 | 30.7 | - | 300 | 123 | 138 | 24.4 | Metón (1996; et al., 1999b) | |
| | 48 | 13.1 | | | | 12.1 | 36.0 | | 382 | 119 | 132 | 34.8 | | |
| | 48 | 17.1 | | | | 22.7 | 33.0 | | 513 | 144 | 201 | 44.5 | | |
| | 38 | 26.0 | | | | 27.0 | 42.5 | | 784 | 140 | 163 | 40.3 | | |
| | 38 | 31.6 | | | | 36.8 | 49.2 | | 567 | 142 | 246 | 44.6 | | |
| 10 | 58 | 10 | 2.0 | 20 | - | 19 | + | - | 8 | 40 | - | - | Metón y col. (2000) | |
| | 48 | 17 | | | | 22 | ++ | | 11 | 53 | | | | |
| | 38 | 31 | | | | 36 | +++ | | 46 | 88 | | | | |
| 40 | 58 | 11.5 | 2.0 | 20 | - | 0 | - | - | - | - | +++ | - | Caseras (2000) | |
| | 48 | 13.1 | | | | 0 | | | | | ++ | | | + |
| | 48 | 17.0 | | | | 0 | | | | | + | | | + |
| | 38 | 26.0 | | | | ++ | | | | | +++ | | | +++ |
| | 38 | 31.6 | | | | ++ | | | | | ++++ | | | ++++ |
| 150 | 63.8 | <0.2 | A sac. | 25 | - | 1.0 | - | - | - | - | - | - | Panserat y col. (2000) | |
| | 33.6 | 21.1 | | | | 29.9 | | | | | | | | |
| 25 | 48 | 17 | 0.5 | 20 | - | 15.0 | 21.0 | - | 160 | 162 | 73 | 24 | Metón (1996; et al., 1999b) | |
| | | | 1.0 | | | 23.6 | 22.5 | | 301 | 146 | 95 | 28 | | |
| | | | 2.0 | | | 40.1 | 38.6 | | 340 | 131 | 154 | 38 | | |
| | | | 3.5 | | | 53.4 | 38.7 | | 371 | 111 | 175 | 38 | | |

NOTA: Cuando las unidades no son las mismas, el nivel del efecto se representa por símbolos "+".

Tabla A-V. Continuación..

| Talla (grs) | Dieta | | Ración (% PT) | T°C | Glucólisis | | | | | Gluconeo génesis | Vía de las Pentosas | | Fuente |
|-------------|--------|--------|---------------|-----|------------|-------|------|----------------------------|----|----------------------------|---------------------|---------|-----------------------|
| | (%PRT) | (%CBH) | | | GK | 6PF2K | 6PFK | Fru-2,6-P ₂ asa | PK | Fru-1,6-P ₂ asa | Glu-6P DH | 6-PG DH | |
| 10 | 38 | 31 | 0.5 | 20 | - | 15.0 | - | 8.3 | - | - | - | - | Metón y col. (2000) |
| | | | 1.0 | | | | | | | | | | |
| | | | 2.0 | | | | | | | | | | |
| | | | 3.5 | | | | | | | | | | |
| 40 | 48 | 17 | 1.0 | 20 | 1400 | - | - | - | - | - | +++ | - | Caseras (2000) |
| | | | 2.0 | | | | | | | | | | |
| | | | 4.0 | | | | | | | | | | |
| 40 | 48 | 17 | 1.0 | 20 | + | - | - | - | - | - | - | - | Caseras y col. (2000) |
| | | | 2.0 | | | | | | | | | | |

NOTA: Cuando las unidades no son las mismas, el nivel del efecto se representa por símbolos "+".

Tabla A-VI. Actividad de la enzima glucolítica GK en el hígado de la trucha (*O. mykiss*) y la carpa común (*C. carpio*) de acuerdo a la calidad de la dieta (en mU/mg de proteína).

| Especie | Talla (grs) | Dieta | | Ración (% PT) | T°C | GK | Fuente |
|--------------------------------------|-------------|--------|--------|---------------|-----|------|------------------------|
| | | (%PRT) | (%CBH) | | | | |
| <i>Trucha (Oncorhynchus. mykiss)</i> | 150 | 54.8 | <0.2 | A saciedad | 18 | 3.3 | Panserat y col. (2000) |
| | | 39.5 | 20.4 | | | 36.7 | |
| <i>Carpa (Cyprinus carpio)</i> | 150 | 67.7 | <0.2 | A saciedad | 18 | 1.8 | Panserat y col. (2000) |
| | | 45.5 | 22.1 | | | 9.7 | |

Tabla A-VII. Cantidad y fracción de amonio no ionizado (ANI/AT) para los distintos experimentos realizados en juveniles de la dorada S. aurata.

| EXPERIMENTO (dieta) | Talla (grs) | pH | Salinidad (psu) | Temperatura (T°C) | (100*ANI/N-NH ₄ ⁺) | ANI | |
|------------------------|----------------|----|--------------------|----------------------|---|---------------|---------------|
| | | | | | | a) µg N-ANI/l | b) ng N-ANI/l |
| <i>E1</i> | | | | | | | |
| NOR-1 | 13.32 | 8 | 38 | 21 | 3.21 | 2.42b | |
| NOR-3 | 13.32 | 8 | 38 | 21 | 3.21 | 2.38b | |
| NOR-4 | 13.32 | 8 | 38 | 21 | 3.21 | 2.34b | |
| NOR-6 | 13.32 | 8 | 38 | 21 | 3.21 | 2.38b | |
| NOR-1 | 29.23 | 8 | 38 | 21 | 3.21 | 2.42b | |
| NOR-3 | 29.23 | 8 | 38 | 21 | 3.21 | 2.38b | |
| NOR-4 | 29.23 | 8 | 38 | 21 | 3.21 | 2.34b | |
| NOR-6 | 29.23 | 8 | 38 | 21 | 3.21 | 2.38b | |
| <i>E2</i> | | | | | | | |
| T15RB | 57.8 | 8 | 38 | 15 | 2.07 | 6.09b | |
| T15RA | 63.8 | 8 | 38 | 15 | 2.07 | 6.09b | |
| T25RB | 83.2 | 8 | 38 | 25 | 4.28 | 1.26b | |
| T25RA | 137.3 | 8 | 38 | 25 | 4.28 | 1.26b | |
| <i>E3</i> | | | | | | | |
| D0 | 40.5 | 8 | 38 | 21 | 3.21 | 2.12a | |
| D5 | 40.5 | 8 | 38 | 21 | 3.21 | 1.74a | |
| D10 | 40.5 | 8 | 38 | 21 | 3.21 | 2.46a | |
| D20 | 40.5 | 8 | 38 | 21 | 3.21 | 2.42a | |
| <i>E4</i> | | | | | | | |
| DIBAQ | 127.0 | 8 | 38 | 16 | 2.23 | 0.66a | |

Tabla A-VIII. Excreción de amonio y urea (mg N/kg pez.día) y proporción de cada una de las formas.

| Especies | Talla (grs) | N _{ing} ^a | N-NH ₄ ⁺ _{exc} | Urea _{exc} | N-NH ₄ ⁺ (%) | N-Urea (%) |
|------------------------------|-------------|-------------------------------|---|---------------------|---------------------------------------|---------------|
| Dorada ¹ | 135 | 385.12 | 116.28 | 16.72 | 87.43 | 12.57 |
| Dorada ² | 100 | 330 | 108 | 14.9 | 87.87 | 12.12 |
| Lubina ² | 100 | 429 | 151.8 | 23.4 | 86.64 | 13.36 |
| Rodaballo ² | 100 | 360 | 74 | 21.4 | 77.57 | 22.43 |
| Trucha de río ² | 100 | 427 | 127.3 | 21.2 | 85.72 | 14.28 |
| Trucha arcoiris ² | 100 | 426 | 152.4 | 21.8 | 87.48 | 12.51 |

^a Nitrógeno Total Aportado-Nitrógeno No Ingerido.

Los números atienden a la fuente de la información: ¹este estudio y ²Dosdat y col., (1996).

Tabla A-IX. Perdidas de nitrógeno a través de las heces (mg N/kg pez.día).

| Especies | Talla (gr) | NF ^a | NSF ^b | NSF/NF*100 |
|------------------------------|------------|-----------------|------------------|--------------|
| <i>Dorada¹</i> | <i>127</i> | <i>111.3</i> | <i>67.48</i> | <i>60.63</i> |
| Dorada ² | 100 | 39.1 | 20.61 | 52.7 |
| Lubina ² | 100 | 28.2 | 6.85 | 24.3 |
| Rodaballo ² | 100 | 23.1 | 6.03 | 26.1 |
| Trucha de río ² | 100 | 35.1 | 9.27 | 26.4 |
| Trucha arcoiris ² | 100 | 24.1 | 3.11 | 12.9 |

^a NF Nitrógeno perdido en las heces (NO₃+NO₂+Aminoácidos)

^b NSF Nitrógeno soluble perdido en las heces(NO₃+NO₂)

Los números atienden a la fuente de la información: ¹este estudio y ²Dosdat y col. (1996).

