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| **Title: Development of equations to predict the influence of floor space on average daily gain, average daily feed Intake, and gain:feed ratio of finishing pigs Authors:** J. R. Flohr, S. S. Dritz, M. D. Tokach, J. C. Woodworth, J. M. DeRouchey, and R. D. GoodbandSupplementary Table 1. Summary of papers used in the regression analysis to predict average daily gain, average daily feed intake, and gain:feed ratio from varying floor space allowances in finishing pigs |
| First author, year | Source type:1 | Trials | Treatments | Gender2 | Floor space allowances, m2 | Initial BW, kg | Final BW, kg3 | *K*4 |
| Harper and Kornegay, 1983 | J | 1 | 2 | Mixed | 0.43-0.78 | 22.7 | 91-98 | 0.021-0.036 |
| Moser et al., 1985 | J | 2 | Exp. 1: 3 | Mixed | 0.28-0.37 | 23.0 | 55.0 | 0.019-0.026 |
|  |  |  | Exp. 2: 3 | Mixed | 0.56-0.74 | 55.0 | 100 | 0.026-0.034 |
| Edwards et al., 1988 | J | 1 | 4 | Mixed | 0.46-0.67 | 34.2 | 83-86 | 0.024-0.034 |
| NCR-89, 1993 | J | 2 | Exp. 1: 3 | Mixed | 0.56-0.93 | 52.8-52.9 | 114-115 | 0.024-0.039 |
|  |  |  | Exp. 2: 4 | Mixed | 0.56-1.11 | 54.2-54.9 | 96-102 | 0.026-0.050 |
| McGlone and Newby, 1994 | J | 1 | 3 | Mixed | 0.56-0.74 | 59.0 | 100-103 | 0.026-0.032 |
| Brumm, 1996 | J | 1 | 3 | Barrows | 0.65-1.20 | 55.6 | 137-138 | 0.024-0.044 |
| Brumm and Miller, 1996 | J | 3 | Exp. 1: 2 | Mixed | 0.56-0.78 | 20.6 | 111 | 0.024-0.033 |
|  |  |  | Exp. 2: 2 | Mixed | 0.56-0.78 | 22.6 | 106-108 | 0.025-0.034 |
|  |  |  | Exp. 3: 2 | Mixed | 0.56-0.78 | 20.6 | 106 | 0.025-0.034 |
| Ward et al., 1997 | J | 1 | 2 | Mixed | 0.56-0.79 | 27.2 | 97-105 | 0.026-0.035 |
| Edmonds et al., 1998 | J | 1 | 2 | Mixed | 0.50-0.74 | 18.0 | 107-126 | 0.022-0.029 |
| Hyun et al., 1998a | J | 1 | 2 | Mixed | 0.25-0.56 | 34.7 | 53-57 | 0.018-0.038 |
| Hyun et al., 1998b | J | 1 | 2 | Mixed | 0.25-0.57 | 35.8 | 54-57 | 0.017-0.037 |
| Gonyou and Stricklin, 1998 | J | 1 | 3 | Mixed | 0.58-0.94 | 25.0 | 95-99 | 0.027-0.043 |
| Dritz et al., 1999 | M | 2 | Exp. 1: 2 | Mixed | 0.61-0.69 | 29.3 | 98-99 | 0.028-0.032 |
|  |  |  | Exp. 2: 2 | Mixed | 0.61-0.69 | 98-99 | 116-117 | 0.025-0.029 |
| Matthews et al., 2001 | J | 1 | 2 | Mixed | 0.56-0.81 | 51.0 | 104-110 | 0.025-0.035 |
| Brumm et al., 2001 | J | 2 | Exp. 1: 2 | Mixed | 0.56-0.78 | 20.0 | 109-111 | 0.024-0.033 |
|  |  |  | Exp. 2: 2 | Mixed | 0.60-0.74 | 22.0 | 110 | 0.026-0.032 |
| Hamilton et al., 2003 | J | 2 | Exp. 1: 2 | Mixed | 0.37-0.93 | 40.0 | 80.0 | 0.020-0.050 |
|  |  |  | Exp. 2: 2 | Mixed | 0.56-0.93 | 80.0 | 120-121 | 0.023-0.038 |
| Edmonds and Baker, 2003 | J | 1 | 2 | Mixed | 0.56-1.12 | 49.0 | 118-126 | 0.023-0.044 |
| Brumm et al., 2004 | J | 1 | 2 | Barrows | 0.55-0.74 | 30.0 | 107-109 | 0.024-0.032 |
| Brumm, 2004 | J | 2 | Exp 1: 5 | Barrows or gilts | 0.58-0.74 | 22-23 | 114-116 | 0.024-0.027 |
|  |  |  | Exp 2: 2 | Mixed | 0.58-0.74 | 30-31 | 122-125 | 0.023-0.029 |
| Peterson, 2004 | T | 1 | 3 | Mixed | 0.61-0.74 | 34.0 | 113-116 | 0.025-0.031 |
| DeDecker at al., 2005 | J | 1 | 4 | Mixed | 0.65-1.30 | 106-113 | 122-126 | 0.026-0.052 |
| Street and Gonyou, 2007 | J | 1 | 2 | Mixed | 0.52-0.78 | 37.0 | 93-95 | 0.025-0.037 |
| Anil et al., 2007 | J | 1 | 4 | Barrows | 0.64-0.88 | 31.0 | 115-121 | 0.027-0.035 |
| White et al., 2008 | J | 1 | 2 | Gilts | 0.66-0.93 | 88.0 | 106-111 | 0.029-0.040 |
| Young et al., 2008 | J | 1 | 2 | Gilts | 0.77-1.13 | 38.0 | 127-128 | 0.030-0.044 |
| Jacela et al., 2009 | M | 2 | Exp. 1: 3 | Mixed | 0.67-0.80 | 107-109 | 125-126 | 0.026-0.032 |
|  |  |  | Exp. 2: 5 | Mixed | 0.62-0.88 | 114-118 | 124-126 | 0.024-0.035 |
| Shull, 2010 | T | 2 | Exp. 1:5 | Mixed | 0.21-0.44 | 24.0 | 45-50 | 0.016-0.032 |
|  |  |  | Exp. 2:5 | Mixed | 0.35-0.73 | 61.0 | 77-89 | 0.019-0.036 |
| Potter et al., 2010 | M | 1 | 4 | Mixed | 0.59-0.76 | 28-29 | 120-126 | 0.024-0.030 |
| Potter et al., 2011 | M | 1 | 4 | Gilts | 0.84-2.09 | 117.0 | 139-144 | 0.031-0.075 |
| Landero et al., 2014 | M | 1 | 6 | Mixed | 0.63-0.76 | 32.0 | 120-124 | 0.025-0.030 |
| 1J = journal, T = thesis, M = technical memo2 Mixed refers to floor space treatments applied to pens containing both barrows and gilts. |
| 3 For papers that did not report final BW the study length, initial BW and ADG were used to calculate final BW. For papers that reported Final BW but not study length, then ADG, initial BW, and final BW were used to calculate study length. |
| 4 Coefficient *k* is the constant in the equation *k =* floor space (m2)/BW0.67. *K* was recalculated for each experimental unit based on final BW and floor space allowance. |
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