

## Nutritional Comparison of Corn, Deer, and Bison

|                                | Nutrients g        |           |            | Kcal | Days DRI | Protein (g) | Days DRI | Ref. | Note                                |
|--------------------------------|--------------------|-----------|------------|------|----------|-------------|----------|------|-------------------------------------|
|                                | per 100 gm portion | Prot      | Carb       |      |          |             |          |      |                                     |
| Daily Recommended Intake (DRI) | <u>2750</u>        | <u>71</u> | <u>210</u> |      |          |             |          |      |                                     |
|                                |                    |           |            |      |          |             |          |      | (kg/animal).                        |
| Deer                           | 120                | 23.0      | 0.0        | 42   | 50,400   | 18          | 9,643    | 136  | <sup>1,2,3,5</sup> 74% edible yield |
| Bison                          | 109                | 21.6      | 0.0        | 247  | 269,230  | 98          | 53,401   | 752  | <sup>6</sup> 34% edible yield       |
|                                |                    |           |            |      |          |             |          |      | (kg/Acre)                           |
|                                |                    |           |            |      |          |             |          |      | per Acre                            |
| Corn                           | 365                | 9.4       | 74.3       | 25   | 927,100  | 337         | 23,927   | 337  | <sup>1,4,7,8</sup>                  |

Assumptions:

|                           |        |
|---------------------------|--------|
| Corn Yield - Bushels/Acre | 10     |
| Corn Weight - kg/bushel   | 25.4   |
| - g/Acre                  | 254000 |

### References:

<sup>1</sup> USDA 2007, 2009; <sup>2</sup> Erlandson 1988; <sup>3</sup> Erlandson 1994; <sup>4</sup> NAS 2001, 2004, 2005; <sup>5</sup> Erlandson et al. 1999;

<sup>6</sup> <http://www.adfg.alaska.gov/index.cfm%3Fadfg=bisonhunting.main>;

<sup>7</sup> <ftp://www.ilga.gov/JCAR/AdminCode/008/00800600ZZ9998bR.html>; <sup>8</sup> Sissel Schroeder 1999

(Jon M Erlandson 1988a; Jon M. Erlandson 1988b, 1994; Jon M. Erlandson et al. 1999; NAS 2001, 2004, 2005; Schroeder 1999; USDA 2007, 2009, 2010)

Erlandson, Jon M (1988a), 'Of Millingstones and Molluscs: The Cultural Ecology of Early Holocene Hunter-Gatherers on the California Coast', Ph.D. (University of California, Santa Barbara).

Erlandson, Jon M. (1988b), 'The Role of Shellfish in Prehistoric Economies: A Protein Perspective', *American Antiquity*, 53 (1), 102-09.

--- (1994), *Early Hunter-Gatherers of the California Coast* (New York: Plenum).

Erlandson, Jon M. , et al. (1999), 'Maritime Subsistence at a 9300 Year Old Shell Midden on Santa Rosa Island, California', *Journal of Field Archaeology*, 26 (3), 11.

NAS (2001), 'Dietary Reference Intakes: Elements'.

--- (2004), 'Dietary Reference Intakes (DRI's): Recommended Intakes for Individuals, Vitamins'.

--- (2005), 'Dietary Reference Intakes for Energy, Carbohydrate, Fiber, Fat, Fatty Acids, Cholesterol, Protein, and Amino Acids (2002/2005)'.

Schroeder, Sissel (1999), 'Maize Productivity in the Eastern Woodlands and Great Plains of North America', *American Antiquity*, 64 (3), 499-516.

USDA (2007), 'Composition of Foods: Raw, Processed, Prepared USDA National Nutrient Database for Standard Reference, Release 20', <<http://www.ars.usda.gov/nutrientdata>>, accessed September 2007.

--- (2009), 'Composition of Foods: Raw, Processed, Prepared USDA National Nutrient Database for Standard Reference, Release 22', *Nutrient Data Laboratory Home Page* (Release 22: U.S. Department of Agriculture, Agricultural Research Service).

--- (2010), *USDA National Nutrient Database for Standard Reference - Release 20*.

<ftp://www.ilga.gov/JCAR/AdminCode/008/00800600ZZ9998bR.html>

TITLE 8: AGRICULTURE AND ANIMALS  
CHAPTER I: DEPARTMENT OF AGRICULTURE  
SUBCHAPTER p: WEIGHTS AND MEASURES  
PART 600 WEIGHTS AND MEASURES ACT  
SECTION 600.TABLE B STANDARD WEIGHT PER BUSHEL FOR AGRICULTURAL COMMODITIES

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**Section 600.TABLE B Standard Weight Per Bushel for Agricultural Commodities**

(Sec. 152 of the Weights & Measures Act)

|                     |            |           |
|---------------------|------------|-----------|
| Corn Seed, Broom    | Per Bushel | 48 Pounds |
| Corn Meal, Unbolted | Per Bushel | 48 Pounds |
| Corn, in the ear    | Per Bushel | 70 Pounds |
| Corn, Kaffir        | Per Bushel | 56 Pounds |
| Corn, Shelled       | Per Bushel | 56 Pounds |