

2008 International Nutrient Databank Directory



Compiled by

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Produced for the
National Nutrient Databank Conference
USA

Available at <http://www.healthcare.uiowa.edu/gcrc/nndc/survey.html>

International Nutrient Databank Directory – 2008

INTRODUCTION

How the information was collected

This directory is sponsored by the Steering Committee of the National Nutrient Databank Conference (NNDC) and has been compiled by the volunteer members of the Databank Directory Committee. It summarizes responses collected from March to June, 2008 to an online questionnaire directed to nutrient database developers. Please note that information, including prices, may have changed since the time the data was collected.

To our survey respondents – Thank you!

We would like to thank all survey respondents for both your timely responses, and your thoughtful comments and suggestions. We believe we have presented your responses appropriately. If you have questions regarding your information included here, please contact Thea Palmer Zimmerman (theazimmerman@westat.com).

To users of this directory

When the NNDC first met in 1976 (before the internet—hard to remember!) there were only a few nutrient calculation programs available and they were hard to locate unless you “knew someone.” Now with a few keystrokes we can discover on the worldwide web hundreds of programs using a wide variety of databases. The key issues for the end user, however, remain the same.

1. What is in the database? Does it contain sufficient values from appropriate sources for the nutrients you want to assess?

2. Does the software perform accurate calculations with these values? Can it perform all the calculations you need?
3. Is the software user-friendly? Is it easy to enter food amounts accurately, taking into account preparation and cooking losses? Does it provide reports (electronic and/or printed) that meet your needs?

For the end user the software and database are usually combined into a “seamless” electronic package. But the starting point in selecting this package should always be the right database(s). Meaningful results begin with using appropriate data.

Whether you are a student, researcher, food scientist, product developer, dietitian or just interested in the many ways we can use computers, this directory introduces you to different types of food composition databases and key factors to consider when choosing one.

There are many more nutrient databases (some very broad, others very specialized) and calculation programs than are profiled in this directory. Remember always that they are under constant revision. Before any purchase, be sure to get updated information from the provider.

We hope you find this directory useful and would appreciate your feedback to Thea Palmer Zimmerman (theazimmerman@westat.com) or Phyllis Stumbo (phyllis-stumbo@uiowa.edu).

NOTES ON TABLES

Table 1. Survey Participants

Here you will find the names and contact information of those who responded to the survey. Each participant is numbered and all entries in the other tables are cross-referenced to these numbers.

Table 2 Database Type, Language(s), History, Format, and Intended Uses

The nutrient databases in this directory can be divided into two broad categories: **reference** and **user**.

Reference databases are usually national, regional or specialty databases. They typically include primarily analytical data plus documentation of sampling, data sources, and laboratory methods. From the original reference databases data files software developers compile **user databases** in formats that can be accessed by search or calculation programs.

Some user databases draw information from a single reference database, e.g. the United States National Nutrient Database for Standard Reference. Others have a core dataset drawn from one or more reference databases (complete or subset) and are supplemented with items and/or nutrients from various sources.

The issue date and frequency of update are both important. The dates of individual database entries and the components included are also significant. (Not all items are changed with each update, nor should they be.)

Food supplies change. *For example*, older versions of US and Canadian databases will not contain grain products fortified with folate.

If you are concerned with “emerging nutrients” updated values are critical. *For example*, results from older methods for folate are not comparable with those obtained by current methods.

Varying numbers of phytochemicals are now appearing in some databases. (Fifteen years ago some questioned whether they should be included in nutrient databases because they weren't “true nutrients” in the traditional sense.)

Table 3. Database (DB) Food Counts and Groups; Nutrient Fields; Maximum Name Length; and Data Sources

Regardless of the number of foods in a database potential users need to verify that it contains the actual foods and nutrients they require.

In user databases there may be spare nutrient fields which can be used for additional nutrients.

In general longer food names provide more information without using abbreviations. Consistent naming conventions (and abbreviations if used) make it easier to choose items efficiently especially in larger databases.

Table 4. Database Food Components and Proportion of Items for Which Values Reported

These completeness statistics are a starting point for assessing the suitability of a database for your purposes but they don't tell the whole story especially for nutrients that are totally absent in certain foods. *For example*, one database might report that it has total dietary fiber values for 60% of items and another 100%. In fact they might actually be comparable because compilers do not all handle “assumed zeros” (e.g. no dietary fiber in meat) in the same way. In the first instance, the field may be blank, in the second zeros have been imputed and are counted as values.

Total Carbohydrate

Total carbohydrate is not determined in the same way for all databases.

The **available carbohydrate** method totals free sugars and polysaccharides; it does not include dietary fiber.

Carbohydrate by difference is the difference between the total weight of a food and the sum of the weights of protein, fat, ash, and water. It includes dietary fiber.

The Dietary Reference Intakes for the United States and Canada (issued from 1997-2004) have influenced the fields required in nutrient databases.

Previously **vitamin A** was reported in **retinol equivalents (RE)**, which is total vitamin A activity calculated as

$$\text{mcg retinol} + 1/6 \text{ mcg beta carotene} + 1/12 \text{ mcg other provitamin A carotenoids.}$$

The DRI committee concluded that these conversion factors overestimate the contribution from carotenoids. Recommendations are now stated in **retinol activity equivalents (RAE)**:

$$\text{mcg retinol} + 1/12 \text{ mcg beta carotene} + 1/24 \text{ mcg other provitamin A carotenoids}$$

Fields have also been created to accommodate the additional modes of expression for folic acid and folates, and dietary folate equivalents (DFE). For discussion of these adjustments and others see Consequences of changes in the Dietary Reference Intakes for Nutrient Databases (S. Gebhardt and Joanne Holden) in the Journal of Food Composition and Analysis 19 (2006), S91-S95.

Table 5. Database Software

The table contains the nutrient calculation programs developed by the database developers. It is wise to verify the scope of user databases. A program might use only selected foods and nutrients from a reference database and not the entire database.

Table 6. Database Online Search Engines

This table contains the organizations that have online search engines available for their databases.

Table 7. Software Used to Access and Apply Databases

This table contains a limited list of software available to access various databases. They vary widely in intended use, capabilities, and cost. It is wise to verify the scope of the software application. A program might use only selected foods and nutrients from a reference database and not the entire database. This list is by no means a comprehensive list of the third party software applications available, nor is the inclusion of a software application an indication of an endorsement by the International Nutrient Databank Directory Committee. This list is provided merely as a service to the users of the International Nutrient Databank Directory and to the software developers.

AUTHORS

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What is the NNDC?

The first meeting of the National Nutrient Databank Conference took place in 1976 . It has continued annually since then to foster communication among food composition researchers, nutrient database compilers, software developers, and end users of nutrient data. It is open to all working in these fields.

The 32nd meeting of the National Nutrient Databank Conference
Nutrient Databases without Borders,
took place May 12 to 14, 2008 in Ottawa, Ontario, Canada

The next meeting
*Innovations in Food Composition and Nutrition Research:
A Global Perspective*
will take place April 17, 2009 in New Orleans, Louisiana

To learn more visit <http://www.nal.usda.gov/fnic/foodcomp/conf/>

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Table 1
Survey Participants

Organization Contact	Address	Website - Email Telephone
1. Axya Systems Shazia Nathoo	4800 Sugar Grove Blvd Suite 602 Stafford, TX 77477 USA	www.nutritionistpro.com snathoo@axy.com 281-652-5534
2. Block Dietary Data Systems Torin Block	15 Shattuck Square, suite 288 Berkeley, CA 94704 USA	http://www.nutritionquest.com tblock@nutritionquest.com 510-704-8514
3. Cancer Research Center of Hawaii Donna Au	1236 Lauhala Street Honolulu, HI 96816 USA	- dtakemor@crch.hawaii.edu 808-564-5950
4. China CDC, Institute of Nutrition and Food Safety Yang Yuexin	Beijing, Xuan Wu 100050 China	www.neasiafoods.org yxyang@263.net 0086-10-83132912
5. CMR progiciels inc. David Allain	1150 Lévis Lachenaie, QC J6W 5S6 Canada	www.cmrprogiciels.com dallain@cmrprogiciels.com 450-471-2828
6. CyberSoft, Inc. Ed Prestwood	3851 E. Thunderhill Place Phoenix, AZ 85044-6679 USA	www.nutribase.com ed@nutribase.com 480-759-4849
7. Diet Power, Inc. Terry Dunkle	7 Kilian Drive Danbury, CT 06811 USA	www.dietpower.com tdunkle@dietpower.com 203-743-0061
8. Digital Altitudes, LLC Mike Biewenga	315 N Belmont Ave Arlington Heights, IL 60004 USA	www.diabetespilot.com contact@diabetespilot.com 847-670-8871
9. DINE Systems, Inc. Kathryn F Dennison	163 Brunswick Electric Road Whiteville, NC 28472 USA	www.dinesystems.com kdennison@dinesystems.com 910-795-4092

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Organization Contact	Address	Website - Email Telephone
10. ESHA Research Elizabeth Braithwaite	P.O. Box 13028 Salem, OR 97309 USA	www.esha.com eliz@esha.com 503-585-6242 ext 329
11. FoodFocus Viola Prowse	721 South Drive Winnipeg, Manitoba R3T0C2 Canada	www.foodfocus.com vprowse@foodfocus.com 204-453-6060
12. FoodFocus-NZ Sarah Prowse	721 South Drive Winnipeg, Manitoba R3T0C2 Canada	www.foodfocus.com vprowse@foodfocus.com 27 544 8577 (NZ)
13. Godin London Incorporated Gaetan Godin	203 Portsmouth Crescent East London, ON N5V 4C8 Canada	www.godin.com gaetgodi@godin.on.ca 519- 679-8290 1-888-691-9171 (CDN-US)
14. Harvard School Public Health Laura Sampson	665 Huntington Ave Boston, MA 02115 USA	https://regepi.bwh.harvard.edu/health nhlas@channing.harvard.edu 617-432-4563
15. Health Canada Josephine Deeks	251 Sir Frederick Banting Driveway PL 2203C Ottawa, ON K1A 0L2, Canada	www.healthcanada.ca/cnf josephine_deeks@hc-sc.gc.ca 613-957-0926
16. Institute of Nutrition, Mahidol University Prapasri Puwastien	Putthamonthon 4, Salaya Nakorn, Pathom 73170 Thailand	www.inmu.mahidol.ac.th/aseanfoods nuppw@mahidol.ac.th +66-2-441 0217
17. Instituto de Nutrición e Higiene de los Alimentos Armando Rodriguez	Infanta No. 1158, Centro Habana La Habana 10300 Cuba	- ceres@infomed.sld.cu 537-8783064
18. Jim Jozwiak Jim Jozwiak	USA	nut.sourceforge.net/ jozwiak@gmail.com

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Organization Contact	Address	Website - Email Telephone
19. Lifestyles Technologies, Inc. John Schirra	23227 Cuestport Dr. W Valencia, CA 91354 USA	www.lifestylestech.com help@lifestylestech.com 661-296-0460
20. LINZ Research Unit, University of Otago Charlie Blakey	P O Box 56 Dunedin 9054 New Zealand	www.otago.ac.nz/linz charlie.blakey@stonebow.otago.ac.nz +64 3 4798937
21. MulberrySoft M G Dangerfield	Mulberry, Forest Lane, Punnetts Town, E Sussex TN21 9JB England	www.dietorganizer.com mgd@mulberrysoft.com -
22. National Cancer Institute Amy F. Subar	6130 Executive Boulevard, EPN 4005 Bethesda MD 20892-7344 USA	http://riskfactor.cancer.gov/DHQ/ subara@mail.nih.gov 301-594-0831
23. National Public Health Institute Heli Reinivuo	Mannerheimintie 166 Helsinki 00300 Finland	www.finel.fi/ heli.reinivuo@ktl.fi 358947448733
24. National Research Center Laila Hussein	Dokki-El-Bouhous St Giza 12311 Egypt	- lhusein@hotmail.com (00202) 3371433/499/399/615
25. NEVO Susanne Westenbrink	RIVM, CVG, P.O.Box 1 Bilthoven Netherlands 3720 BA	www.rivm.nl/nevo susanne.westenbrink@rivm.nl 31 30 2742448
26. NUBEL vzw Carine Seeuws	Victor Hortaplein 40 bus 10 Brussels 1060 Belgium	www.nubel.com www.nubel.be carine.seeuws@health.fgov.be +32 2 524 72 20
27. NutriGenie Robert Johnson	PO Box 18226 Stanford University, CA 94306 USA	nutrigenie.com rj@nutrigenie.biz 800-540-8077

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Organization Contact	Address	Website - Email Telephone
28. Nutritional Computing Concepts Lawrence A. Wheeler	5014 Turkey Foot Road Zionsville, IN 46077 USA	nconcepts.com lawheeler@nconcepts.com 317-873-6897
29. Nutrition Coordinating Center University of Minnesota NCC Client Services, Priscilla Harala	1300 South Second Street, Suite 300 Minneapolis, MN 55454-1087 USA	www.ncc.umn.edu ncc@epi.umn.edu 612-626-9450
30. Rural Development Administration Sena Kim, Hongju Park	88-2 Seodun-Dong Suown, 441-853 Korea	www.rrdi.go.kr gasinali@rda.go.kr / redpark@rda.go.kr +82-31-299-563 / 82-31-299-560
31. SERVE Nutrition Systems Mike Williams	33 Green Valley Avenue St Ives, NSW 2075 Australia	www.serve.com.au mike@serve.com.au 61-2-9449 2593
32. Shenandoah Mountain Design Stephen Hull	7604 Elioak Terrace Gaithersburg, MD 20879 USA	www.nutriminer.com info@nutriminer.com 301-990-0308
33. SweetWARE David Dunetz	2821 A Chapman Street Oakland, CA 94601 USA	www.sweetware.com david@sweetware.com 510-436-8600
34. The Better Byte Software Company Ltd Paul Lagasse	Box 345, 4819C - 48th ave. Red Deer, AB T4N 3T2 Canada	www.betbyte.com plagasse@rttinc.com 403-346-7953
35. Tinuviel Software A.P. Johns	Tinuviel House Llanfechell, Gwynedd LL68 0RG UK	www.tinuvielsoftware.com tsis@tinuvielsoftware.com +44-1407-710183
36. University of Arizona Diet Assessment Center Vernon Hartz	2601 N. Campbell, Suite 109 Tucson, AZ 85719 USA	www.azdiet-behavior.azcc.arizona.edu vhartz@azcc.arizona.edu 520-626-3357

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Table 1
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Organization Contact	Address	Website - Email Telephone
37. USDA Agricultural Research Service BHNRC Nutrient Data Laboratory David Haytowitz	10300 Baltimore Ave., B-005, Rm. 107 Beltsville, MD 20705 USA	www.ars.usda.gov/nutrientdata haytowid@ba.ars.usda.gov 301-504-0714
38. USDA Agricultural Research Service Food Surveys Research Group Jaspreet Ahuja	10300 Baltimore Ave, B-005, Rm 102, BARC-West Beltsville, MD 20705-2350 USA	http://www.ars.usda.gov/ba/bhnrc/fsrg jaspreet.ahuja@ars.usda.gov 301-504-0178
39. Viocare Technologies, Inc. Rick Weiss	145 Witherspoon St. Princeton, NJ 08542 USA	www.viocare.com weiss@viocare.com 609-497-4600
40. University of Texas Houston School of Public Health Deirdre Douglass	1200 Herman Pressler, W904K Houston, Texas 77030 USA	www.sph.uth.tmc.edu/fias fias@uth.tmc.edu 713-500-9775
41. Xyris Software (Australia) Pty Ltd Geoffrey Grantham	20 Westbourne Street Highgate Hill, Brisbane, Queensland 4101 Australia	www.xyris.com.au geoffrey@xyris.com.au 61-7-3223 5300

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Table 2

Database Type, Language(s), History, Format, and Intended Uses.

Database			Languages	Issued		Formats Availability					Purposes / Applications Update Frequency
Org #	Type	Name		First	Current	Printed	Diskette, CD or DVD	Internet download	With software only	In-house use, contract service	
	<i>R</i>	ASEAN Food Composition Tables	English, Malaysian, Filipino, Thai, Vietnamese	2000	2000	x					regional database; next revision 2012
	<i>R</i>	Belgian NUBEL Database	English; French; German; Dutch	1992	2004	x		x	x		national database (Belgium); updated every 3-4 yrs
	<i>U</i>	Block Food Frequency Questionnaire DB ¹	English, Spanish, Chinese, Japanese	1987	2005				x	x	nutritional assessment; revised in conjunction with new FFQs
	<i>R</i>	Canadian Nutrient File	English, French	1981	2007b		x	x			national database (Canada); revised every 2-3 years
	<i>U</i>	Cancer Research Center Food Table	English		2006					x	regional database; nutritional assessment; updated yearly
	<i>U</i>	CANDAT	English, French	1988	2008	x	x	x	x	x	national database; research; updated monthly
	<i>U</i>	CanUsda	English	2005	2005				x		nutritional assessment; updated when USDA Standard Reference and Canadian Nutrient File revised
	<i>R</i>	China Food Composition 2004	English, Chinese	1978	2005	x					national database (China)
	<i>R</i>	Concise Egyptian Food Comp Tables	English, Arabic	2004	2004	x	x				national database (Egypt)
	<i>U</i>	DHQ Food Frequency Database ¹	English	2000	2008				x		nutritional assessment; updated as necessary
	<i>U</i>	Diabetes Pilot	English	2001	2006		x	x	x		nutritional assessment; updated with software updates
	<i>U</i>	DietPower 4.4 Weight & Nutrition Coach	English	1992	2007		x	x	x		nutritional assessment and coaching; updated with software updates
	<i>U</i>	DINE Healthy	English	1982	2008				x		nutritional assessment; updated yearly

R Reference database

U User database

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Org #	Type	Name		First	Current	Printed	Diskette, CD or DVD	Internet download	With software only	In-house use, contract service	
	<i>R</i>	<i>Reference database</i>									
	<i>U</i>	<i>User database</i>									
25.	<i>R</i>	Dutch Nutrient Data Base	Dutch	1986	2006	x	x				national database (The Netherlands)
10.	<i>U</i>	ESHA DB	English	1984	2008		x			x	nutritional assessment, labeling, book tables; updated twice per year
11.	<i>U</i>	FoodFocus	English; French	1993	2007				x		nutritional assessment; updated every 2-3 yrs
12.	<i>U</i>	FoodFocus-NZ	English	2007	2007				x		nutritional assessment; updated every 2-3 yrs
23.	<i>R</i>	Finnish Food Composition DB	Finnish, Swedish	1984	2008	x	x				national database (Finland); updated yearly
14.	<i>U</i>	Harvard Food Frequency DB ¹	English	1984	2008			x	x	x	for semi-quantitative FFQ; updated every 2 yrs
30.	<i>R</i>	Korean Food Composition Table (7th revision)	Korean	1992	2007	x		x	x		national database (Korea); updated every 5 yrs
20.	<i>U</i>	LINZ24	English	1997	2002				x	x	analyze 24-hr diet recalls; updated for major New Zealand surveys
36.	<i>U</i>	Metabolize	English	1997	2006					x	nutritional assessment; FFQ; updated every 2-3 yrs
29.	<i>U</i>	NCC Food and Nutrient Database	English; Spanish prompts available	1974	2008				x	x	nutritional assessment; FFQ; updated yearly; USDA provisional tables when available
18.	<i>U</i>	NUT	English	1996	2008		x	x			nutritional assessment; yearly
6.	<i>U</i>	NutriBase Nutrient Database	English	1992	ver 7.18	x	x	x	x	x	nutrition labelling; printed book tables; updated 2/year
27.	<i>U</i>	NutriGenie	Eng., French	2005	2006				x		nutritional assessment; updated yearly other lang. German, Italian Croatian, Greek
28.	<i>U</i>	Nutritional Computing Concepts DB	English	1982	2008		x		x	x	nutritional assessment; updated 2/year

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Org #	Type	Name		First	Current	Printed	Diskette, CD or DVD	Internet download	With software only	In-house use, contract service	
1.	<i>U</i>	Nutritionist Pro Knowledge Base		English	1982	ver 4.1		x	x		
31.	<i>U</i>	SERVE	English	1988	2004		x	x			nutritional assessment; updated yearly
16.	<i>R</i>	Thai Food Composition Tables	English	1999	1999	x					national database (Thailand); next revision 2010, +Thai names
38.	<i>U</i>	USDA Food & Nutrient DB for Diet Studies (FNDDS)	English	2004	2008			x			national database (USA); updated every 2 years
37.	<i>R</i>	USDA Nat'l Nutrient DB for SR 21	English	1980	2008		x	x			national database (USA); updated yearly

R Reference database

U User database

¹ Food frequency questionnaires (FFQs) are used to assess usual intake wherein respondents indicate how often specific quantities of representative foods are consumed.

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Table 3

Database (DB) Food Counts and Groups; Nutrient Fields; Maximum Name Length; and Data Sources.

	Foods				Food Groups		Characters in Food Name (max #)		Number of Food Components		USDA SR version:		FNDDS / USDA Survey NDB ¹		Canadian Nutrient File version		Label ²		Manufacturer Pre-label values ²		Literature		Calculated from Recipes		Imputed ³		Other Data Sources		
Organization # / Database (DB)	Counts				Source Databases				Additional Data Sources																				
Reference Databases																													
16. ASEAN Food Comp Tables	1,750	18	150	21																								Food composition databases of Indonesia, Malaysia, Philippines, Singapore, Thailand and Vietnam	
26. Belgian NUBEL Database	1,100	14	ns	26									x	x	x													analytical data; NEVO; IFR; SOUCI	
15. Canadian Nutrient File	5,516	23	60	143	19						2007b			x	x	x	x											Canadian food industry, Canadian government labs	
4. China Food Composition 2004	1,506	28	100	32									x															laboratory analysis	
24. Concise Egyptian Food Comp Tabl.	430	13	ns	23																								laboratory analysis	
25. Dutch Nutrient Data Base	2,300	25	200	50	19								x	x	x	x	x											laboratory analysis	
23. Finnish Food Composition DB	3,900	75	80	50	ns								x	x	x	x	x											analytical data from other food	
30. Korean Food Composition Table	2,505	18	2	88	19																							laboratory analysis; Japanese food composition DB (5th ver)	
16. Thai Food Composition Tables	1,055	16	150	21																								Thai analyzed data (published and unpub.)	
37. USDA Nat'l Nutrient DB for SR	7,519	23	200	140									x	x	x	x	x											USDA sponsored analysis	
User Databases																													
2. Block Food Frequency DB	200	5	20	75	18	1.0							x																used with Block FFQ and screening tools.
3. Cancer Research Center Food Composition Table	2,500	76	120	120	20								x																Foods in Hawaii & Pacific Basin; Standard Tables of Food Composition (Japan); China Food Composition
13. CANDAT	5,600	ns	160	125							2007																		Food Habits for Canadians
34. CanUsda	45,941	16	200	153	20						2007b																		Rick Mendosa's Glycemic Database
8. Diabetes Pilot	7,000	1000	60	32	18	1							x																
7. DietPower 4.4 Wt. & Nutr. Coach	11,000	72	90	33	19	ns																							web and large restaurant chains
9. DINE Healthy	10,000	23	155	121	20						1996		x																

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	Foods				Food Groups	Characters in Food Name (max #)	Number of Food Components	USDA SR version:	FNDDS / USDA Survey NDB ¹	Canadian Nutrient File version	Label ²	Manufacturer Pre-label values ²	Literature	Calculated from Recipes	Imputed ³	Other Data Sources	
Organization # / Database (DB)	Counts				Source Databases				Additional Data Sources								
<i>User Databases, continued</i>																	
22. DHQ Food Frequency Database	255	30	35	107												1994-96 Continuing Suvery of Food Intakes by Individuals; Nutrition Data System for Research (NDS-R); Pyramid Servings Database	
10. ESHA DB	31,009	136	60	133	20		2007b	x	x	x	x	x				optional: recipe databases, Canadian Nutrient File	
11. FoodFocus	6,424	69	120	32	20		2007									University of Manitoba graduate student work	
12. FoodFocus-NZ	2,760	69	120	32												New Zealand Food Composition Database (2006); FOODfiles 2006 NZ Crop Research Institute	
14. Harvard Food Frequency DB	692	22	17	79	19	Survey		x		x	x	x				contracted data	
20. LINZ24	3,400	34	ns	41				x			x	x				New Zealand Food Composition Database	
36. Metabolize	750	24	66	ns	17	1.0					x	x					
29. NCC Food and Nutrient DB	18,000	166	144	254	19,20	1.0	2005	x	x	x	x	x				International databases	
18. NUT	7,146	24	136	60	20											x	
6. NutriBase Nutrient DB	37,263	237	50	162	18		2005	x								x	food manufacturers' data updated late 2005
27. NutriGenie	8,000	6	256	30	ns	ns	ns				x						
28. Nutritional Computing Concepts DB	23,000	75	180	130	20	2.0		x		x						x	
1. Nutritionist Pro Knowledge Base	32,555	369	255	114	20		2007	x	x	x	x	x				specialty databases, including MEXFOODS (2006)	
31. SERVE	4600	18	180	32												AUSNUT & NUTTAB - ANZFA (Australia);	
SERVE-NZ	3400		55													Foodfiles - Crop & Food Research, New Zealand	
38. USDA FNDDS	7,000	272	200	64	20							x					

¹ Food and Nutrient DB for Dietary Studies (FNDDS) supplanted USDA Survey Nutrient Database in 2004

² unrounded analyzed value(s) before rounding for nutrition label

³ Calculated value from data for similar food.

ns = version not specified

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Table 4

Database Food Components and Percentage of Items for Which Values are Reported

Organization # / Database	<i>Energy as Kcal</i>	<i>Energy as kJ</i>	<i>Water</i>	<i>Alcohol</i>	<i>Ash</i>	<i>Protein</i>	<i>Method for Total Carb¹</i>	<i>Total carbohydrate</i>	<i>Total sugars</i>	<i>Total dietary fiber</i>	<i>Insoluble fiber</i>	<i>Soluble fiber</i>	<i>Total fat</i>	<i>Cholesterol</i>	<i>Phytosterol</i>	<i>Total saturated</i>	<i>Total monounsaturated</i>	<i>Total polyunsaturated</i>	<i>Total trans</i>	<i>Total Omega-3 (n-3)</i>	<i>Total Omega-6 (n-6)</i>
Organization # / Database	Energy	Proximates				Carbohydrate						Fat and Related Compounds									

SECTION 1

Percentage of food items for which a value is reported

Reference Databases

16. ASEAN Food Composition Tables	100	0	100	0	99	98	bd	95	0	57	0	0	66	0	0	0	0	0	0	0	0
26. Belgian NUBEL Database	100	100	95	2	0	100	bd	100	90	50	0	0	100	80	0	80	80	80	20	20	20
15. Canadian Nutrient File	100	100	98	98	98	100	bd	100	77	96	0	0	100	97	9	91	89	90	11	0	0
4. China Food Composition 2004	100	100	100	100	0	0	bd	100	0	50	0	100	100	100		100	100	100	0	0	0
24. Concise Egyptian Food Composition Tables	100	100	100	0	100	98	ns	97	0	80	0	80	98	0	0	98	98	98	100	98	98
25. Dutch Nutrient Data Base	100	100	100	100	13	100	bd	100	99	99	0	0	100	90	0	98	98	98	87	86	85
23. Finnish Food Composition DB	0	100	100	100	100	100	ac	100	100	100	97	97	100	100	93	96	96	96	96	94	94
30. Korean Food Composition Table	100	0	100	1	100	100	bd	100	0	11	3	3	100	12	0	11	11	11	0	20	22
16. Thai Food Composition Tables	93	0	99	0	93	91	bd	92	40	49	0	0	94	39	0	41	0	0	0	0	0
37. USDA Nat'l Nutrient DB for SR	100	100	100	58	100	100	bd	100	70	90	0	0	100	96	8	96	89	89	19	0	0

User Databases

2. Block Food Frequency DB	100	0	0	0	0	100	bd	100	100	100	100	100	100	100	0	100	100	100	100	100	100
3. Cancer Research Center Food Table	100	100	100	100	100	100	bd	100	100	100	98	98	100	100	98	100	100	100	25	100	100
13. CANDAT	100	100	97	97	97	100	bd	100	77	92	0	0	100	97	0	92	90	90	7	0	0
34. CanUsda	100	100	100	60	100	100	bd	100	75	80	0	87	100	93	2	89	88	87	5	55	54
22. DHQ Food Frequency Database	100	0	0	100	0	100	bd	100	100	100	100	100	100	100	0	100	100	100	100	100	100
8. Diabetes Pilot	99	0	0	0	0	99	bd	99	99	99	0	0	99	99	0	99	0	0	0	0	0
7. DietPower 4.4 Weight & Nutrition Coach	100	0	89	100	0	100	bd	100	53	83	0	0	100	99	0	98	70	70	2	0	0

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Table 4

Database Food Components and Percentage of Items for Which Values are Reported

Organization # / Database	Energy as Kcal	Energy as kJ	Water	Alcohol	Ash	Protein	Method for Total Carb ¹	Total carbohydrate	Total sugars	Total dietary fiber	Insoluble fiber	Soluble fiber	Total fat	Cholesterol	Phytosterol	Total saturated	Total monounsaturated	Total polyunsaturated	Total trans	Total Omega-3 (n-3)	Total Omega-6 (n-6)
Organization # / Database	Energy	Proximates				Carbohydrate						Fat and Related Compounds									

SECTION 1: User Databases (continued)

Percentage of food items for which a value is reported

9. DINE Healthy	100	0	44	100	44	100	bd	100	22	100	0	0	100	100	50	100	100	100	1	0	0
10. ESHA DB	100	100	72	99	72	100	bd	100	83	95	42	42	100	95	0	95	63	63	45	53	53
11. FoodFocus	100	100	100	0	0	100	ns	100	0	100	0	0	100	100	0	100	100	100	0	100	100
12. FoodFocus-NZ	100	100	100	0	0	100	ns	100	0	100	0	0	100	100	0	100	100	100	0	100	100
14. Harvard Food Frequency DB	100	100	100	100	0	100	bd	100	100	100	0	0	100	100	0	100	100	100	100	100	100
20. LINZ24	0	100	100	100	0	100	ac	100	100	100	100	100	100	100	0	100	100	100	0	0	0
36. Metabolize	100	100	100	100	99	100	bd	100	100	100	0	0	100	100	8	100	100	100	100	100	100
29. NCC Food and Nutrient DB	100	100	100	100	100	100	bd,ac	100	98	100	97	97	100	100	0	100	100	100	100	100	0
18. NUT	100	100	99	58	99	100	bd	100	63	89	0	0	100	97	8	96	93	93	7	86	87
6. NutriBase Nutrient DB	100	100	75	100	72	100	bd	100	78	100	0	0	100	100	3	95	76	76	27	11	59
27. NutriGenie	100	0	100	100	0	100	ns	100	100	100	0	0	100	100	0	100	100	100	0	0	0
28. Nutritional Computing Concepts DB	100	100	85	50	85	100	bd	100	85	100	0	30	100	100	50	100	100	100	15	50	50
1. Nutritionist Pro Knowledge Base	100	100	59	87	59	100	bd+	100	86	96	40	40	100	96	0	94	67	67	32	57	57
31. SERVE	100	100	100	100	0	100	ns	100	100	100	0	0	100	0	0	100	100	100	0	0	0
38. USDA FNDDS	100	0	100	100	0	100	bd	100	100	100	0	0	100	100	0	100	100	100	0	0	0

¹Carbohydrate methods: ac = avail carb, bd = by difference, ns = not specified

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Table 4

Database Food Components and Percentage of Items for Which Values are Reported

Organization # / Database	Vitamin A, Retinol & Carotenoids	Tocopherols, Vitamins D & C	Folate & Folic Acid
	Vitamin A IU Vitamin A RE I Vitamin A RAE I Retinol mcg Alpha-carotene Beta-carotene Beta-cryptoxanthin Lutein/Zeaxanthin Lycopene Other carotenoids	Vitamin E IU Alpha tocopherol equivalents (ATE) Alpha tocopherol Beta tocopherol Gamma tocopherol Delta tocopherol Vitamin D3 Vitamin C	Folate, total Food folate Folic acid (added) Dietary Folate Equivalents (DFE)

SECTION 2

Percentage of food items for which a value is reported

Reference Databases

16. ASEAN Food Composition Tables	0	79	0	71	0	68	0	0	0	0	0	0	0	0	0	0	0	71	0	0	0	0
26. Belgian NUBEL Database	0	0	60	0	0	40	0	0	0	0	0	0	0	0	0	0	0	80	0	0	0	0
15. Canadian Nutrient File	0	0	95	90	42	88	46	45	46	0	0	0	63	8	8	8	87	96	89	87	96	86
4. China Food Composition 2004	0	100	0	0	0	100	0	0	0	0	0	0	100	100	100	100	0	100	0	0	0	0
24. Concise Egyptian Food Composition Tables	0	50	0	85	0	80	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0
25. Dutch Nutrient Data Base	0	95	92	87	36	66	32	29/24	26	8	0	0	32	28	28	27	88	92	0	86	10	87
23. Finnish Food Composition DB	0	100	100	100	58	99	30	87	20	99	0	100	99	89	89	89	99	100	98	0	0	0
30. Korean Food Composition Table	0	84	0	87	0	81	0	0	0	0	0	0	38	0	0	0	31	100	0	0	43	0
16. Thai Food Composition Tables	0	23	0	65	0	23	0	0	0	0	0	0	0	0	0	0	0	37	0	0	0	0
37. USDA Nat'l Nutrient DB for SR	96	0	82	80	55	57	55	54	54	0	0	0	58	16	16	15	9	95	86	83	81	81

User Databases

2. Block Food Frequency DB	100	100	100	100	100	100	100	100	100	0	100	100	100	0	0	0	100	100	100	100	100	100
3. Cancer Research Center Food Table	100	100	94	94	100	100	100	98	98	0	0	100	100	98	98	98	98	100	100	100	100	100
13. CANDAT	0	0	94	93	44	93	43	43	43	0	0	0	46	0	0	0	87	97	87	0	95	87
34. CanUsda	94	0	88	88	65	65	64	58	59	0	50	0	65	13	20	20	1	98	89	83	81	83
22. DHQ Food Frequency Database	100	100	100	100	100	100	100	100	100	0	100	100	100	100	100	100	100	100	100	100	100	100
8. Diabetes Pilot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7. DietPower 4.4 Weight & Nutrition Coach	0	91	0	0	0	0	0	0	0	0	56	0	0	0	0	0	0	92	71	0	0	0

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Table 4

Database Food Components and Percentage of Items for Which Values are Reported

Organization # / Database	Vitamin A, Retinol & Carotenoids										Tocopherols, Vitamins D & C						Folate & Folic Acid				
	Vitamin A IU	Vitamin A RE ¹	Vitamin A RAE ¹	Retinol mcg	Alpha-carotene	Beta-carotene	Beta-cryptoxanthin	Lutein/Zeaxanthin	Lycopene	Other carotenoids	Vitamin E IU	Alpha tocopherol equivalents (ATE)	Alpha tocopherol	Beta tocopherol	Gamma tocopherol	Delta tocopherol	Vitamin D3	Vitamin C	Folate, total	Food folate	Folic acid (added)

SECTION 2: User Databases (continued)

Percentage of food items for which a value is reported

9. DINE Healthy	83	0	100	32	19	20	19	19	19	0	98	0	0	4	4	4	3	100	45	32	32	32
10. ESHA DB	92	92	69	69	60	61	60	57	58	60	42	41	41	0	0	0	14	95	46	40	40	40
11. FoodFocus	0	0	100	0	0	0	0	0	0	0	0	0	100	0	0	0	100	100	0	0	0	100
12. FoodFocus-NZ	0	0	100	0	0	0	0	0	0	0	0	0	100	0	0	0	100	100	0	0	0	100
14. Harvard Food Frequency DB	100	100	100	100	100	100	100	100	100	0	0	100	100	94	94	94	100	100	100	100	100	100
20. LINZ24	0	0	0	100	0	100	0	0	0	0	100	0	0	0	0	0	100	100	100	0	0	0
36. Metabolize	100	0	100	100	100	100	100	100	100	0	0	100	100	100	100	100	100	100	100	100	100	100
29. NCC Food and Nutrient DB	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
18. NUT	96	0	87	86	54	56	54	53	53	0	56	0	56	12	12	12	7	95	90	88	86	86
6. NutriBase Nutrient DB	56	0	65	65	37	55	37	36	36	0	2	0	39	4	4	4	36	93	68	64	66	63
27. NutriGenie	100	100	100	100	0	100	0	0	0	0	100	0	0	0	0	0	100	100	100	100	0	0
28. Nutritional Computing Concepts DB	50	10	50	10	50	50	5	5	5	0	15	15	15	15	15	15	50	85	85	85	85	85
1. Nutritionist Pro Knowledge Base	87	87	68	87	58	68	58	58	58	42	18	18	32	0	0	0	34	95	53	53	53	42
31. SERVE	0	0	0	100	0	100	0	0	0	0	0	0	0	0	0	0	0	100	100	0	0	0
38. USDA FNDDS	0	0	100	100	100	100	100	100	100	0	0	0	100	0	0	0	0	100	100	100	100	100

¹ RE=Retinol Equivalent, RAE=Retinol Activity Equivalent (see introduction)

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Table 4

Database Food Components and Percentage of Items for Which Values are Reported

Organization # / Database	Thiamin	Riboflavin	Pantothenic Acid	Vitamin B-6	Vitamin B-12	Niacin, preformed	Niacin Equivalents	Calcium	Phosphorus	Magnesium	Iron	Zinc	Sodium	Potassium	Selenium	Copper	Chromium	Molybdenum	Manganese	Fluoride	Iodine
Organization # / Database	Other B-Vitamins						Minerals and Trace Elements														

SECTION 3

Percentage of food items for which a value is reported

Reference Databases

16. ASEAN Food Composition Tables	75	78	0	0	0	74	0	97	82	0	95	12	54	39	12	12	0	0	0	0	0
26. Belgian NUBEL Database	70	70	0	0	60	0	0	85	80	80	80	75	85	85	0	75	0	0	0	0	0
15. Canadian Nutrient File	93	81	89	92	94	93	90	97	90	98	95	79	88	0	0	80	0	0	81	0	0
4. China Food Composition 2004	100	100	0	0	0	100	0	100	100	100	100	100	100	100	100	100	0	0	100	0	100
24. Concise Egyptian Food Composition Tables	100	80	0	80	50	80	0	85	0	85	85	85	85	70	0	0	0	0	0	0	30
25. Dutch Nutrient Data Base	94	94	0	91	92	90	0	95	94	88	96	85	98	96	74	79	0	0	0	0	19
23. Finnish Food Composition DB	99	99	94	98	99	0	98	99	98	99	99	98	99	99	98	97	87	89	96	89	94
30. Korean Food Composition Table	100	100	40	42	41	100	0	100	100	37	100	37	100	100	10	36	0	1	17	2	3
16. Thai Food Composition Tables	62	65	0	0	0	55	0	79	68	0	75	24	53	38	0	24	0	0	0	0	0
37. USDA Nat'l Nutrient DB for SR	95	91	79	88	87	90	0	98	91	89	98	90	99	93	80	88	0	0	78	7	0

User Databases

2. Block Food Frequency DB	100	100	100	100	100	100	0	100	100	100	100	100	100	100	100	100	0	0	0	0	0
3. Cancer Research Center Food Table	100	100	100	100	100	100	0	100	100	100	100	100	100	100	100	100	0	0	100	0	98
13. CANDAT	94	93	82	89	93	94	96	97	95	90	97	89	98	96	79	87	0	0	80	0	0
34. CanUsda	94	89	87	85	90	89	0	98	98	97	98	97	99	99	86	87	0	0	87	2	0
22. DHQ Food Frequency Database	100	100	100	100	100	100	0	100	100	100	100	100	100	100	0	100	0	0	0	0	0
8. Diabetes Pilot	0	0	0	0	0	0	0	0	0	0	0	0	99	0	0	0	0	0	0	0	0
7. DietPower 4.4 Weight & Nutrition Coach	79	79	59	71	71	79	0	94	79	71	94	71	99	79	52	70	0	0	57	0	0

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Table 4

Database Food Components and Percentage of Items for Which Values are Reported

	<i>Thiamin</i>	<i>Riboflavin</i>	<i>Pantothenic Acid</i>	<i>Vitamin B-6</i>	<i>Vitamin B-12</i>	<i>Niacin, preformed</i>	<i>Niacin Equivalents</i>	<i>Calcium</i>	<i>Phosphorus</i>	<i>Magnesium</i>	<i>Iron</i>	<i>Zinc</i>	<i>Sodium</i>	<i>Potassium</i>	<i>Selenium</i>	<i>Copper</i>	<i>Chromium</i>	<i>Molybdenum</i>	<i>Manganese</i>	<i>Fluoride</i>	<i>Iodine</i>
Organization # / Database	Other B-Vitamins							Minerals and Trace Elements													
<i>SECTION 3: User Databases (continued)</i>																					
<i>Percentage of food items for which a value is reported</i>																					
9. DINE Healthy	76	76	43	47	46	75	0	100	100	48	100	47	100	100	32	45	0	0	39	0	0
10. ESHA DB	53	53	37	46	51	52	52	94	51	47	94	48	98	60	35	45	5	8	36	1	6
11. FoodFocus	100	100	0	100	100	0	100	100	0	0	100	100	100	100	0	0	0	0	0	0	0
12. FoodFocus-NZ	100	100	0	100	100	0	100	100	0	0	100	100	100	100	0	0	0	0	0	0	0
14. Harvard Food Frequency DB	100	100	100	100	100	100	0	100	100	100	100	100	100	100	0	100	0	0	100	0	0
20. LINZ24	100	100	0	100	100	0	100	100	100	100	100	100	0	100	100	100	0	0	100	0	0
36. Metabolize	100	100	100	100	100	0	100	100	100	100	100	100	100	100	100	100	0	0	100	0	0
29. NCC Food and Nutrient DB	100	100	99	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	100	100	0
18. NUT	94	94	83	90	90	94	0	98	94	93	98	92	99	95	82	92	0	0	80	0	0
6. NutriBase Nutrient DB	71	71	61	68	69	0	71	95	71	69	95	67	99	75	60	66	1	1	59	0	2
27. NutriGenie	100	100	0	100	100	0	100	100	100	100	100	100	100	100	0	100	0	0	0	0	0
28. Nutritional Computing Concepts DB	85	85	85	85	85	85	85	100	85	85	100	40	100	85	30	30	30	30	30	30	30
1. Nutritionist Pro Knowledge Base	63	63	44	53	59	62	35	97	61	54	97	53	98	69	43	51	5	6	41	5	3
31. SERVE	100	100	0	0	0	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0
38. USDA FNDDS	100	100	0	100	100	100	0	100	100	100	100	100	100	100	100	100	0	0	0	0	0

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Table 4 Appendix
Additional Food Components and Data Sources

Organization # / Database	Additional Database Food Components and Percentage for Which Values Reported	Data source information		
		General info	Major data sources for each food	Specific data source for each component for each food
<i>Reference Databases</i>				
16. ASEAN Food Composition Tables				
26. Belgian NUBEL Database			no data sources given	
15. Canadian Nutrient File	amino acids			
4. China Food Composition 2004				
24. Concise Egyptian Food Composition Tables				
25. Dutch Nutrient Data Base				x
23. Finnish Food Composition DB				x
30. Korean Food Composition Table			x	
16. Thai Food Composition Tables			x	
37. USDA Nat'l Nutrient DB for SR	choline 7%; betaine 7%; vitamin k/phylliquone 52%; theobromine 54%; amino acids			
<i>User Databases</i>				
2. Block Food Frequency DB	total isoflavonoid 100%; quercetin 100%; glycemic index/glycemic load 100%		x	
3. Cancer Research Center Food Table	individual values: lignans (secoisolariciresinol, matairesinol) 93%; isoflavonoids (genistein, daidzein)			x
13. CANDAT				
34. CanUsda	potential renal acid load 100%; glycemic index 40%			x
22. DHQ Food Frequency Database				x
8. Diabetes Pilot			x	
7. DietPower 4.4 Weight & Nutrition Coach			x	

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Table 4 Appendix
Additional Food Components and Data Sources

Organization # / Database	Additional Database Food Components and Percentage for Which Values Reported	Data source information		
		<i>General info</i>	<i>Major data sources for each food</i>	<i>Specific data source for each component for each food</i>
<i>User Databases (continued)</i>				
9. DINE Healthy	100%: added sugar; fat (animal, plant, fish); protein (animal, plant); aspartame; monosodium glutamate	x		
10. ESHA DB	vitamin k 23%; tryptophan 39%; glycemic index 13%		x	
11. FoodFocus	ratio of N-6:N-3 100%		x	
12. FoodFocus-NZ	ratio of N-6:N-3 100%		x	
14. Harvard Food Frequency DB	glycemic index 90%			x
20. LINZ24				
36. Metabolize	total isoflavones 19%; glycemic index 100%; daidzein, genistein, glycitein 19%; and pre-formed vitamin A 98%; cruciferous vegetables identified; %CR; %DRI			
29. NCC Food and Nutrient DB	12 amino acids 98%; 26 fatty acids 100%; 6 isoflavonones 100%; choline and betaine 99%; nitrogen 100%; GI and glycemic load; dietary and non-dietary fluoride in NDS-R Fluoride version			x
18. NUT	non-fiber carbohydrates 100%	x		
6. NutriBase Nutrient DB	estimated net carb (total carbohydrate by difference less dietary fiber & sugar alcohols) 100%			
27. NutriGenie				
28. Nutritional Computing Concepts DB	Exchange List Representation 95%		x	
1. Nutritionist Pro Knowledge Base	sugar alcohol 45%		x	
31. SERVE	energy including fiber 100%; glycemic load 11%			
38. USDA FNDDS	choline 100%; vitamin K 100%; caffeine 100%, theobromine 100%			

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Table 5

Database Software

Organization # / Database Programs	Program Formats / Access			Price ¹	Applications / Capabilities									
	Diskette, CD or DVD	Internet: Download to own machine (DL) Use on the web	Contract service by developer		Industry food labeling	Hospital food service	Recipe and menu analysis	Menu planning	Dietary assessment	Research	Food Consumption Surveys	Food Frequency Questionnaires	General Public / Education	Exercise recording

Reference Databases (DB)

16. ASEAN Food Composition Tables	no software info available																
26. Belgian NUBEL Database																	
Belgian NUBEL Food Planner		web		100 €	x			x				Gen . Ed	x	Diab . Pyr		x	
4. China Food Composition 2004 Nutrition Calcular v1.6	x			¥800													
24. The Concise Egyptian Food Composition Tables	no software info available																
25. Dutch Nutrient Data Base	no software info available																
23. Finnish Food Composition Database	no software info available																
30. Korean Food Composition Table		DL		no charge	x	x	x	x				Gen	x	Diab . Pyr		x	
16. Thai Food Composition Tables - INMUCAL	x		x	varies	x	x	x	x				Gen	x			x	
37. USDA Nat'l Nutr. DB for Standard Reference PC Search; PDA Search	x	DL		no charge								Gen					

User Databases

2. Block Food Frequency Questionnaire Block FFQ Data-on-Demand System	x	DL/web	x	negotiable		x		x				Gen	x	Pyr			
3. Cancer Research Center Food Composition Table Cancer Research Food Composition			x	not reported				x						Pyr			
13. CANDAT CANDAT FORMDAT	x x	DL DL	x x	\$995 varies	x x	x x	x x	x x	x x			Gen					
34. CanUsda Kathleen's Diet Planner		DL		Can\$79		x	x	x				Gen	x				x
22. DHQ Food Frequency Database DietCalc		DL		no charge				x						Pyr			
8. Diabetes Pilot Diabetes Pilot Desktop Diabetes Pilot for Palm Handhelds	x x	DL DL		accompanies software \$39 \$24								Gen Gen	x x				

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Table 5

Database Software

Organization # / Database Programs	Program Formats / Access			Price ¹	Applications / Capabilities									
	Diskette, CD or DVD	Internet: Download to own machine (DL) Use on the web	Contract service by developer		Industry food labeling	Hospital food service	Recipe and menu analysis	Menu planning	Dietary assessment	Research	Food Consumption Surveys	Food Frequency Questionnaires	General Public / Education	Exercise recording

User Databases, continued

7. DietPower 4.4 Weight and Nutrition Coach DietPower 4.4 Consultant Edition DietPower 4.4	x x	DL DL	x x	\$250 DL \$39.99 CD \$49.99		x		x				Gen	x x		x x
9. DINE Healthy DINE Healthy	x	DL		\$129			x	x				Gen	x		x
10. ESHA Database Genesis SQL Food Processor SQL	x x			\$4,999 \$699	x		x	x	x				x	Diab Diab . Pyr	x x
11. FoodFocus FoodFocus	x			Can\$159 to \$599 (\$79+ for upgrades)			x					Educ			
12. FoodFocus-NZ FoodFocus-NZ	x			not yet determined			x					Educ			
14. Harvard Semi-quantitative Food Frequency DB PC analysis programs: 80, 88 or 97 fields			x	\$1,500				x		x					
20. LINZ24 Abbey Research Software with LINZ24 Diet	x	DL	x	not reported				x				Gen			
36. Metabolize Metabolize			x	not reported				x		x			x		
29. NCC Food and Nutrient Database Nutrition Data System for Research (NDSR) NDSR with Fluoride	x x		x x	\$5,500 \$3,250/additional copy Same prices as NDSR Less for existing user	x		x	x	x	x				Pyr Pyr	
6. NutriBase Nutrient DB Fitness Manager NutriBase Network Editions	x x	DL		\$695 min \$1095	x x	x x	x x	x x				Gen Gen	x x	Diab . Pyr Pyr	
27. NutriGenie Nutrition 2006 Diabetes Menu Planner	x x	DL DL		\$49 \$59	x x	x x	x x	x x				Gen Gen	x x	Diab . Pyr Diab . Pyr	

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Table 5

Database Software

Organization # / Database Programs	Program Formats / Access		Price ¹	Applications / Capabilities											
	Diskette, CD or DVD	Internet: Download to own machine (DL) Use on the web		Contract service by developer	Industry food labeling	Hospital food service	Recipe and menu analysis	Menu planning	Dietary assessment	Research	Food Consumption Surveys	Food Frequency Questionnaires	General Public / Education	Exercise recording	Calculations: Diabetic Exchanges Food Guide Pyramid Sygs

User Databases, continued

28. Nutritional Computing Concepts Database																	
Menu Creation	x			\$99.95			x	x				Gen	x	Diab . Pyr		x	
Recipe Analysis	x			\$99.95		x	x					Gen		Diab .			
1. Nutritionist Pro Knowledge Base																	
Nutritionist Pro Diet Analysis	x	DL		\$595	x	x	x	x					x	Diab . Pyr		x	
Nutritionist Pro Food Labeling	x	DL		\$595	x	x	x	x				Gen		Diab . Pyr			
31. SERVE					x		x	x									
SERVE	x	DL		\$495 - 695									x				
Self-SERVE	x	DL		\$99 - \$189								Gen	x				
38. USDA FNDDS													x				
What's In The Foods You Eat Search Tool		DL		no charge													

¹ US\$ unless otherwise specified; Maintenance/support fees not included.

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Table 6

Database Online Search Engines

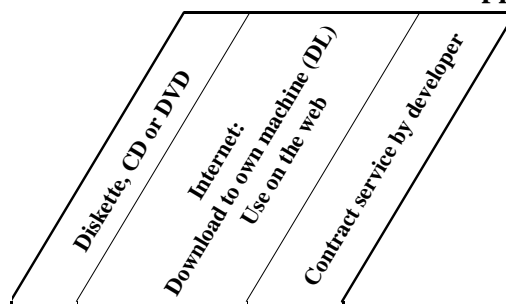
Organization # / Database	Price ¹	Documentation for database values			Applications / Capabilities												
		General info crediting all sources	Major data sources given for each individual food	Specific data source for each component for each food	Industry food labeling	Hospital food service	Recipe and menu analysis	Menu planning	Dietary assessment	Research	Food Consumption Surveys	Food Frequency Questionnaires	General Public / Education	Exercise recording	Calculations: Diabetic Exchanges	Food Guide Pyramid Svgs	Basal and/or total energy requirement
Reference Databases (DB)																	
26. Belgian NUBEL database Belgian NUBEL Food planner www.nubel.com	100 €	no data sources given			x				x				Gen . Ed	x	Diab.Pyr	x	
15. Canadian Nutrient File www.hc-sc.gc.ca/fn-an/nutrition/fiche-nutri-data/index_e.html	no charge												Gen				
37. USDA Nat'l Nutr. DB for Standard Reference www.nal.usda.gov/fnic/foodcomp/search/	no charge																
User Databases																	
38. USDA FNDDS What's In The Foods You Eat Search Tool http://199.133.10.140/codesearchwebapp/	no charge			x									x				

¹ US\$ unless otherwise specified; Maintenance/support fees not included.

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Table 7

Software Used to Access and Apply Databases



Organization # / Program(s)	Program Formats / Access			Price ¹	Frequency of updates	Databases used
<i>SECTION 1</i>						
17. Ceres+	x		x	Free	every 3 yrs	Cuban Food Comp Table, Caribbean Food Comp Table, Colombian Food Comp Table, INCAP Food Comp Table
19. DietMaster Pro	x	DL/web		\$499	approx. every other year	USDA Nat'l Nutr. DB for Standard Reference
21. DietOrganizer Palm DietOrganizer PC		DL DL		\$25 \$39.95	not specified	USDA Nat'l Nutr. DB for Standard
40. Food Intake Analysis System (FIAS)	x			\$6,000	not specified	USDA Continuing Survey of Food Intakes by Individuals (CSFII) 1994-96, 1998 (replaced by FNDDES 1.0)
41. FoodWorks Professional FoodWorks Nutrition Labelling Edition FoodWorks Premium Edition FoodWorks Choices		DL DL		AU\$850 AU\$1950	1-2 yrs	AU: Nuttab, AusNut; NZ: FoodFiles, Pacific Islands, Malaysia
18. NUT		DL		no charge	yearly	USDA Nat'l Nutr. DB for Standard
33. nutraCoster	x	DL	x	\$399	monthly	USDA Nat'l Nutr. DB for Standard
32. The NutriMiner		web		no charge	every 2 yrs	FNDDES (v1.0-3.0); MyPyramid Equivalents (v1.0); NHANES (2001-02, 2003-04, 2005-06)
5. ProMenu	x	DL		not reported	not specified	Canadian Nutrient File
39. ProNutra	x	DL		\$2,995	not specified	USDA Nat'l Nutr. DB for Standard Reference
35. WISP CARAT Qbuilder Food24 NDM	x	DL		from UK£725	monthly	UK Composition of foods, USDA

¹ US\$ unless otherwise specified; Maintenance/support fees not included.

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Table 7

Software Used to Access and Apply Databases

Organization # / Program(s)	Applications / Capabilities / Modifications										Modifications, Other information	
	<div style="display: flex; justify-content: space-around; font-size: small;"> Industry food labeling Hospital food service Recipe and menu analysis Menu planning Dietary assessment Research Food Consumption Surveys Food Frequency Questionnaires General Public / Education Exercise recording Calculations: Diabetic Exchanges Food Guide Pyramid Sygs Basal and/or total energy required </div>											
<i>SECTION 2</i>												
17. Ceres+	x	x	x	x	x			x				Evaluation of food consumption for individuals, households, food baskets; user specifies reference values; Windows based
19. DietMaster Pro												
21. DietOrganizer Palm DietOrganizer PC								Gen	x			
40. Food Intake Analysis System (FIAS)			x	x	<i>epidemiological research</i>							
41. FoodWorks Professional FoodWorks Nutrition Labelling Edition FoodWorks Premium Edition FoodWorks Choices	x	x	x	x	x	x						includes curriculum materials for use in schools
18. NUT								Gen				non-fiber carbohydrates 100%
33. nutraCoster	x		x									
32. The NutriMiner	x			x	x			Gen		Pyr		includes frequency of consumption and portion sizes from NHANES
5. ProMenu		x	x	x								
39. ProNutra			x		x							
35. WISP CARAT Qbuilder Food24 NDM	x	x	x	x	Educ	x			x			Calculates GI and non-milk extrinsic sugars; modified file outputs, alternate input technologies, specialized analyses