Compendium of Physical Activities: an update of activity codes and MET intensities

BARBARA E. AINSWORTH, WILLIAM L. HASKELL, MELICIA C. WHITT, MELINDA L. IRWIN, ANN M. SWARTZ, SCOTT J. STRATH, WILLIAM L. O'BRIEN, DAVID R. BASSETT, JR., KATHRYN H. SCHMITZ, PATRICIA O. EMPLAINCOURT, DAVID R. JACOBS, JR., and ARTHUR S. LEON

Department of Epidemiology and Biostatistics, Department of Exercise Science, School of Public Health, University of South Carolina, Columbia, SC 29208; Stanford Center for Research in Disease Prevention, School of Medicine, Stanford University, Palo Alto, CA 94304; Division of Kinesiology, School of Kinesiology and Leisure Studies, University of Minnesota, Minneapolis, MN 55454; Division of Epidemiology, School of Public Health, University of Minnesota, Minneapolis, MN 55455; Department of Exercise Science and Sport Management, University of Tennessee, Knoxville, TN 37996; Department of Human Performance, University of Alabama, Tuscaloosa, AL 35487

ABSTRACT

AINSWORTH, B. E.,, W. L. HASKELL, M. C. WHITT, M. L. IRWIN, A. M. SWARTZ, S. J. STRATH, W. L. O'BRIEN, D. R. BASSETT, JR., K. H. SCHMITZ, P. O EMPLAINCOURT, D. R. JACOBS, JR., and A. S. LEON. Compendium of physical activities: an update of activity codes and MET intensities. *Med. Sci. Sports Exerc.*, Vol. 32, No. 9, Suppl., pp. S498–S516, 2000. We provide an updated version of the Compendium of Physical Activities, a coding scheme that classifies specific physical activity (PA) by rate of energy expenditure. It was developed to enhance the comparability of results across studies using self-reports of PA. The Compendium coding scheme links a five-digit code that describes physical activities by major headings (e.g., occupation, transportation, etc.) and specific activities within each major heading with its intensity, defined as the ratio of work metabolic rate to a standard resting metabolic rate (MET). Energy expenditure in MET-minutes, MET-hours, kcal, or kcal per kilogram body weight can be estimated for specific activities by type or MET intensity. Additions to the Compendium were obtained from studies describing daily PA patterns of adults and studies measuring the energy cost of specific physical activities in field settings. The updated version includes two new major headings of volunteer and religious activities, extends the number of specific activities from 477 to 605. and provides updated MET intensity levels for selected activities. **Key Words:** EXERCISE, EXERTION, ENERGY EXPENDITURE

he Compendium of Physical Activities was developed to facilitate the coding of physical activities (PAs) obtained from PA records, logs, and surveys and to promote comparison of coded physical activity intensity levels across observational studies (1). The Compendium provides a coding scheme that links a five-digit code, representing the specific activities performed in various settings, with their respective metabolic equivalent (MET) intensity levels. Using the definition for a MET as the ratio of work metabolic rate to a standard resting metabolic rate of 1.0 (4.184 kJ)·kg⁻¹·h⁻¹, 1 MET is considered a resting metabolic rate obtained during quiet sitting. Activities are listed in the Compendium as multiples of the resting MET level and range from 0.9 (sleeping) to 18 METs (running at 10.9 mph).

We provide an update of the initial Compendium of Physical Activities, developed in 1989 and published in 1993. The updated Compendium reflects additional activities identified by researchers in the past 10 years and presents measured MET intensities for some activities in which METs were estimated from similar activities. The updated Compendium also reflects public health interests in evaluating the contributions of various types of physical activity to daily energy expenditure by providing additional categories for activities done during the day.

The initial Compendium has received widespread acceptance among PA specialists in the exercise science and public health fields. For example, in the United States, the coding scheme has been used to identify MET intensities for PAs in the third National Health and Nutrition Examination Survey (6), the 1991 National Health Interview Survey (11), the Paffenbarger College Alumni Study (15), and to evaluate the accuracy of the Minnesota Leisure Time Physical Activity Questionnaire (MN-LTPA) (26). Internationally, the Compendium has been used to identify MET intensities for activities listed in the MONICA Optional Survey of Physical Activity (MOSPA) (12). The coding scheme and MET intensities for activities listed in the Compendium of Physical Activities also have been published as an appendix or abstracted as a chart in several books (18–20,34).

In their landmark 1995 paper that presents the recommendation of the Centers for Disease Control and Prevention

(CDC) and the American College of Sports Medicine (ACSM) for adults to accumulate at least 30 min of regular, moderate-intensity physical activity on most days of the week, Pate et al. (23) cite the Compendium as a reference that researchers, clinicians, and practitioners can use to identify examples of moderate intensity physical activities.

The updated Compendium includes two additional major headings and 129 new specific activities. It also provides modifications of 94 codes in the 1993 Compendium, adding or deleting specific activities or providing updated MET levels. The new major headings and most of the specific activities were identified from studies using PA records to identify daily PA habits among adults (2,3) and from personal communications from other investigators who reported activities omitted from the initial Compendium, Updated MET levels were obtained from laboratory and field studies designed to measure the energy cost for specific PAs (4,7-9,16,17,21,22,24,27-30,32,35,37). We have also clarified the meaning of the letter T followed by three numbers (i.e., T010) as activities and their associated MET levels defined by Dr. Henry Taylor for the MN-LTPA (31). The letter T is now replaced by the words Taylor Code and followed by the MN-LTPA survey item number (e.g., Taylor Code 010). In this paper we present the updated Compendium of Physical Activities (Appendix 1) and recommendations for its implementation to identify PA habits using PA records.

CODING SCHEME

Activity coding. The reader is referred to the 1993 published version of the Compendium (1) for a detailed description of the coding scheme, organization, and methods used to calculate the energy cost of PAs. Briefly, the Compendium is organized to maximize flexibility in coding, data entry, and interpretation of energy cost for each class and type of PA. The coding scheme employs a five-digit code to categorize activities by their major purpose or heading (first two digits), specific activity (last three digits), and intensity (separate two- or three-digit column). For example, the five-digit code, 06100, is defined as follows:

Based on the model proposed by Pate et al. (23) for classifying the MET intensity of PAs (light, < 3 METs; moderate, 3-6 METs; vigorous, > 6 METs), the activity code 06100 is classified as moderate intensity.

Major headings. Two additional major headings were added to the updated Compendium of Physical Activities for a total of 21 major types of PAs (Table 1).

The two new categories, religious activities and volunteer activities, were identified from the use of PA records in the Cross-Cultural Activity Participation Study (CAPS) (2). CAPS was an observational study of PA habits among African American, Native American, and Caucasian

TABLE 1. Major types of activities in Version 2 of the Compendium of Physical Activities; new major headings are italicized.

01-Bicycling	08-Lawn and Garden	15-Sports
02-Conditioning Exercises	09-Miscellaneous	16-Transportation
03-Dancing	10-Music Playing	17-Walking
04-Fishing and Hunting	11-Occupation	18-Water Activities
05-Home Activities	12-Running	19-Winter Activities
06-Home Repair	13-Self Care	20-Religious Activities
07-Inactivity	14-Sexual Activity	21-Volunteer Activities

women, ages 40 yr and older. The new categories include 43 specific activities that are culturally and socially relevant among ethnic minorities and/or older adults. Religious and ceremonial activities play a central role in the lives of many older adults, especially among ethnic minority groups (5). Among retired people and others not employed in occupational settings, volunteer activities also commonly represent an important contribution to daily energy expenditure.

Specific activities. The updated Compendium contains 605 specific activities, including 129 new activities added to the 1993 Compendium. Modifications were also made to 94 PAs listed in the 1993 Compendium, which involved adding or deleting specific activities associated with each code. For example, for the code 08030, lawn and garden activities, the phrase "wheelbarrow chores" was added to the 1993 Compendium's specifications of clearing land and hauling branches. In other cases, activities were removed from existing codes and new codes were developed if the removed activities had a different MET level or were qualitatively different from other specific activities listed for the code. For example, the 1993 Compendium listed mopping as a specific activity in code 05020, home activities. However, Emplaincourt (7) measured the MET intensity for mopping as 3.5 METs and the MET intensity for the other activities in the code was listed as 3.0 METs. Thus, mopping was deleted from code 05020 and a new code, 05021, was created. Another example is watching television. In 1993, watching television was coded as 07010 (reclining) or 07020 (sitting) and was grouped with other specific activities that involved sitting quietly (i.e., riding in a car, listening to a lecture or to music) or reclining and doing nothing. Because watching television is a sedentary but modifiable leisure time activity that may be related to the increased prevalence of physical inactivity (36), overweight, and obesity in the United States (13,14), the authors felt that watching television should have a separate code to monitor time spent in this activity. In the updated Compendium, the codes 07010 and 07020 refer to watching television only. New codes have been added for the remaining inactive reclining (07011) and sitting (07021) activities. Table 2 presents the new five-digit codes, and Table 3 presents the modifications for existing codes as incorporated in the updated Compendium.

Intensity of activities. All activities are assigned an intensity level based on the rate of energy expenditure expressed as METs. Intensity of activities in the Compendium is classified as multiples of 1 MET or as the ratio of the associated metabolic rate for the specific activity divided

TABLE 2. New codes in Version 2 of the Compendium of Physical Activities.

Bicycling Conditioning Exercises Dancing Home Activities Lawn and Garden: Inactivity Lawn and Garden: Miscellaneous Occupation	01015 02101 03016 03017 03031 03050 05021 05025 05026 05027 05043 05045 05045 05045 05148 05149 05181 05187 05188 06190 05191 06192 05193 06194 05195 06165 07011 07021 08125 08165 04246 09071 09075 09080 09095 09095 09100 09105	8.0 2.5 8.5 10.0 4.5 5.5 3.5 4.0 3.5 6.0 2.5 2.5 3.0 4.0 1.5 2.8 4.0 5.5 4.0 5.5 4.0 5.5 2.5 3.5 4.0 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5	Bicycling, general Mild stretching Aerobic, step, with 6–8 inch step Aerobic, step, with 10–12 inch step Disco, folk, square, line dancing, Irish step dancing, polka, contra, and country dancing. Anishinaabe Jingle Dancing or other traditional American Indian dancing Mopping Multiple household tasks all at once, light effort Multiple household tasks all at once, moderate effort Multiple household tasks all at once, wigorous effort Vacuuming Butchering animals Feeding animals Feeding animals Watering plants Building a fire inside Carrying small children Elder care, disabled adults, only active periods Reclining with baby Sitting, playing with animals, light, only active periods Walk/run, playing with animals, light, only active periods Walk/run, playing with animals, moderate, only active periods Walk/run, playing with animals, wigorous, only active periods Walk/run, playing with animals, wigorous, only active periods Standing-bathing dog Painting (Taylor Code 630) Lying quietly, done nothing, lying in bed awake, listening to music (not talking or reading) Sitting quietly, sitting smoking, listening to music (not talking or reading) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing-miscellaneous Sitting—arts and crafts, light effort Sitting—arts and crafts, moderate effort
Conditioning Exercises Dancing Home Activities Lawn and Garden nactivity Lawn and Garden: Miscellaneous	02101 03016 03017 03031 03050 05021 05025 05026 05027 05043 05045 05053 05148 05149 05181 05187 05188 05190 05191 05192 05193 05194 05195 06165 07011 07021 08125 08165 04246 09071 09075 09080 09085 09090	2.5 8.5 10.0 4.5 5.5 3.5 4.0 3.5 6.0 2.5 2.5 3.0 4.0 1.5 2.8 4.0 5.0 3.5 4.0 5.0 4.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5	Mild stretching Aerobic, step, with 6–8 inch step Aerobic, step, with 10–12 inch step Disco, folk, square, line dancing, frish step dancing, polka, contra, and country dancing. Anishinaabe Jingle Dancing or other traditional American Indian dancing Mopping Multiple household tasks all at once, light effort Multiple household tasks all at once, moderate effort Multiple household tasks all at once, vigorous effort Vacuuming Butchering animals Feeding animals Feeding animals Watering plants Building a fire inside Carrying small children Elder care, disabled adults, only active periods Reclining with baby Sitting, playing with animals, light, only active periods Standing, playing with animals, light, only active periods Walk/run, playing with animals, moderate, only active periods Walk/run, playing with animals, moderate, only active periods Standing—bathing dog Painting (Taylor Code 630) Lying queitly, done nothing, lying in bed awake, listening to music (not talking or reading) Sitting quietly, sitting smoking, listening to music (not talking or reading) Raking lawn, power mower (Taylor Code 590) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing—miscellaneous Sitting—arts and crafts, light effort
Lawn and Garden nactivity Lawn and Garden Miscellaneous	03016 03017 03031 03050 05021 05025 05026 05027 05043 05045 05148 05149 05188 05190 05191 05192 05193 05194 05193 05194 05195 06165 07011 07021 08125 08165 04246 09071 09080 09085 09090 09095	8.5 10.0 4.5 5.5 3.5 4.0 3.5 6.0 2.5 2.5 2.5 3.0 4.0 2.5 2.8 2.8 4.0 3.5 4.0 3.5 4.0 3.5 4.0 3.5 4.0 3.5 5.5 2.5 2.5 3.5 2.5 3.5 2.5 3.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4	Aerobic, step, with 6–8 inch step Aerobic, step, with 10–12 inch step Disco, folk, square, line dancing, Irish step dancing, polka, contra, and country dancing. Anishinaabe Jingle Dancing or other traditional American Indian dancing Mopping Multiple household tasks all at once, light effort Multiple household tasks all at once, woderate effort Multiple household tasks all at once, vigorous effort Vacuuming Butchering animals Feeding animals Watering plants Building a fire inside Carrying small children Elder care, disabled adults, only active periods Reclining with baby Sitting, playing with animals, light, only active periods Standing, playing with animals, light, only active periods Walk/run, playing with animals, light, only active periods Walk/run, playing with animals, wigorous, only active periods Walk/run, playing with animals, vigorous, only active periods Standing-bathing dog Painting (Taylor Code 630) Lying queitly, done nothing, lying in bed awake, listening to music (not talking or reading) Sitting quietly, sitting smoking, listening to music (not talking or reading) Raking lawn, power mower (Taylor Code 590) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing—miscellaneous Sitting—arts and crafts, light effort
Lawn and Garden: nactivity Lawn and Garden Miscellaneous	03017 03031 03050 05021 05025 05026 05027 05043 05045 05149 05149 05181 05187 05188 05190 05191 05192 05193 05194 05193 05194 05195 06165 07011 07021 08125 08165 04246 09071 09080 09080 09090 09095	10.0 4.5 5.5 5.5 3.5 4.0 3.5 6.0 2.5 2.5 3.0 4.0 1.5 2.8 2.8 4.0 5.0 3.5 4.0 1.0 4.5 4.0 3.0 2.0 1.5 2.0 1.8 3.0	Aerobic, step, with 10–12 inch step Disco, folk, square, line dancing, Irish step dancing, polka, contra, and country dancing. Anishinaabe Jingle Dancing or other traditional American Indian dancing Mopping Multiple household tasks all at once, light effort Multiple household tasks all at once, moderate effort Multiple household tasks all at once, vigorous effort Vacuuming Butchering animals Feeding animals Watering plants Building a fire inside Carrying small children Elder care, disabled adults, only active periods Reclining with baby Sitting, playing with animals, light, only active periods Standing, playing with animals, light, only active periods Walk/run, playing with animals, light, only active periods Walk/run, playing with animals, moderate, only active periods Walk/run, playing with animals, vigorous, only active periods Standing-bathing dog Painting (Taylor Code 630) Lying queitly, done nothing, lying in bed awake, listening to music (not talking or reading) Sitting quietly, sitting smoking, listening to music (not talking or reading) Raking lawn, power mower (Taylor Code 590) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing—miscellaneous Sitting—arts and crafts, light effort
awn and Garden nactivity awn and Garden Aiscellaneous	03031 03050 05025 05026 05027 05026 05027 05043 05045 05053 05148 05187 05187 05188 05190 05191 05192 05193 05194 05195 06165 07011 07021 08125 08165 04246 09071 09075 09080 09085 09095	4.5 5.5 3.5 4.0 3.5 4.0 5.5 2.5 3.0 4.0 5.5 2.8 4.0 5.5 4.0 5.5 4.0 3.5 4.0 4.5 4.0 3.5 4.0 4.5 4.0 4.5 4.0 4.5 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	Disco, folk, square, line dancing, frish step dancing, polka, contra, and country dancing. Anishinaabe Jingle Dancing or other traditional American Indian dancing Mopping Multiple household tasks all at once, light effort Multiple household tasks all at once, wigorous effort Multiple household tasks all at once, vigorous effort Vacuuming Butchering animals Feeding animals Feeding animals Watering plants Building a fire inside Carrying small children Elder care, disabled adults, only active periods Reclining with baby Sitting, playing with animals, light, only active periods Valk/run, playing with animals, light, only active periods Walk/run, playing with animals, moderate, only active periods Walk/run, playing with animals, vigorous, only active periods Standing—bathing dog Painting (Taylor Code 630) Lying queitly, done nothing, lying in bed awake, listening to music (not talking or reading) Sitting quietly, sitting smoking, listening to music (not talking or reading) Raking lawn, power mower (Taylor Code 590) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing—miscellaneous Sitting—arts and crafts, light effort
.awn and Garden nactivity .awn and Garden Miscellaneous	03050 05021 05025 05026 05026 05027 05043 05045 05053 05148 05149 05187 05188 05190 05191 05192 05193 05194 05195 06165 07011 07021 08125 08165 04246 09071 09075 09080 09085 09090	5.5 3.5 2.5 3.5 4.0 3.5 6.0 2.5 2.5 2.5 2.8 4.0 1.5 2.8 4.0 5.5 4.0 3.5 4.0 3.5 4.0 3.5 4.0 5.0 4.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5	Anishinaabe Jingle Dancing or other traditional American Indian dancing Mopping Multiple household tasks all at once, light effort Multiple household tasks all at once, woderate effort Multiple household tasks all at once, wigorous effort Vacuuming Butchering animals Feeding animals Watering plants Building a fire inside Carrying small children Elder care, disabled adults, only active periods Raclining with baby Sitting, playing with animals, light, only active periods Standing, playing with animals, light, only active periods Walk/run, playing with animals, moderate, only active periods Walk/run, playing with animals, moderate, only active periods Walk/run, playing with animals, vigorous, only active periods Standing—bathing dog Painting (Taylor Code 630) Lying queitly, done nothing, lying in bed awake, listening to music (not talking or reading) Sitting quietly, sitting smoking, listening to music (not talking or reading) Raking lawn, power mower (Taylor Code 590) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing—arts and crafts, light effort
.awn and Garden nactivity .awn and Garden Miscellaneous	05021 05025 05025 05026 05027 05043 05045 05148 05149 05181 05188 05190 05191 06192 05193 06194 05193 06194 05195 06165 07011 07021 08165 04246 09071 09075 09080 09085 09090	3.5 2.5 3.5 4.0 3.5 6.0 2.5 2.5 3.0 4.5 2.8 2.8 4.0 5.5 4.0 4.5 4.0 3.5 4.0 4.5 4.0 4.5 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	Mopping Multiple household tasks all at once, light effort Multiple household tasks all at once, moderate effort Multiple household tasks all at once, vigorous effort Vacuuming Butchering animals Feeding animals Watering plants Building a fire inside Carrying small children Elder care, disabled adults, only active periods Reclining with baby Sitting, playing with animals, light, only active periods Standing, playing with animals, light, only active periods Walk/run, playing with animals, light, only active periods Walk/run, playing with animals, noderate, only active periods Walk/run, playing with animals, vigorous, only active periods Standing—bathing dog Painting (Taylor Code 630) Lying queitly, done nothing, lying in bed awake, listening to music (not talking or reading) Sitting quietly, sitting smoking, listening to music (not talking or reading) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing—miscellaneous Sitting—arts and crafts, light effort
.awn and Garden nactivity .awn and Garden Miscellaneous	05025 05026 05027 05043 05045 05045 05045 05149 05187 05188 05190 05191 05192 05193 05194 05195 06165 07011 07021 08125 08165 04246 09071 09075 09080 09085 09090 09095	2.5 3.5 4.0 3.5 6.0 2.5 2.5 2.5 3.0 4.0 1.5 2.8 4.0 5.0 3.5 4.5 1.0 4.5 4.0 3.0 2.0 1.5 2.0	Multiple household tasks all at once, light effort Multiple household tasks all at once, moderate effort Multiple household tasks all at once, vigorous effort Vacuuming Butchering animals Feeding animals Watering plants Building a fire inside Carrying small children Elder care, disabled adults, only active periods Reclining with baby Sitting, playing with animals, light, only active periods Standing, playing with animals, light, only active periods Walk/run, playing with animals, light, only active periods Walk/run, playing with animals, moderate, only active periods Walk/run, playing with animals, vigorous, only active periods Standing-bathing dog Painting (Taylor Code 630) Lying queitly, done nothing, lying in bed awake, listening to music (not talking or reading) Sitting quietly, sitting smoking, listening to music (not talking or reading) Raking lawn, power mower (Taylor Code 590) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing—miscellaneous Sitting—arts and crafts, light effort
nactivity .awn and Garden Miscellaneous	05026 05027 05043 05045 05053 05148 05149 05187 05188 05190 05191 05192 05193 05194 05195 06165 07011 07021 08125 08165 04246 09071 09075 09080 09085 09090	3.5 4.0 3.5 6.0 2.5 2.5 3.0 4.0 1.5 2.8 4.0 5.0 3.5 4.5 1.0 4.5 4.0 3.0 2.0 1.5 2.0	Multiple household tasks all at once, moderate effort Multiple household tasks all at once, vigorous effort Vacuuming Butchering animals Feeding animals Watering plants Building a fire inside Carrying small children Elder care, disabled adults, only active periods Reclining with baby Sitting, playing with animals, light, only active periods Standing, playing with animals, light, only active periods Walk/run, playing with animals, light, only active periods Walk/run, playing with animals, moderate, only active periods Walk/run, playing with animals, vigorous, only active periods Standing—bathing dog Painting (Taylor Code 630) Lying queitly, done nothing, lying in bed awake, listening to music (not talking or reading) Sitting quietly, sitting smoking, listening to music (not talking or reading) Raking lawn, power mower (Taylor Code 590) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing—arts and crafts, light effort
nactivity .awn and Garden Miscellaneous	05027 05043 05045 05053 05148 05149 05187 05188 05190 05191 05192 05193 05194 05195 06165 07011 07021 08125 08165 04246 09071 09075 09080 09085 09090	4.0 3.5 6.0 2.5 2.5 2.5 3.0 4.0 1.5 2.8 4.0 5.0 3.5 4.5 1.0 4.5 4.0 3.0 2.0 1.5 2.0	Multiple household tasks all at once, vigorous effort Vacuuming Butchering animals Feeding animals Watering plants Building a fire inside Carrying small children Elder care, disabled adults, only active periods Reclining with baby Sitting, playing with animals, light, only active periods Standing, playing with animals, light, only active periods Walk/run, playing with animals, light, only active periods Walk/run, playing with animals, moderate, only active periods Walk/run, playing with animals, vigorous, only active periods Standing—bathing dog Painting (Taylor Code 630) Lying queitly, done nothing, lying in bed awake, listening to music (not talking or reading) Sitting quietly, sitting smoking, listening to music (not talking or reading) Raking lawn, power mower (Taylor Code 590) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing—arts and crafts, light effort
nactivity .awn and Garden Miscellaneous	05043 05045 05045 05148 05149 05181 05188 05190 05191 06192 05193 06194 05195 06165 07011 07021 08125 08165 04246 09071 09075 09080 09085 09095	3.5 6.0 2.5 2.5 3.0 4.0 1.5 2.5 2.8 2.8 4.0 5.0 3.5 4.0 1.0 4.5 4.0 3.0 2.0 1.5 2.0	Vacuuming Butchering animals Feeding animals Watering plants Building a fire inside Carrying small children Elder care, disabled adults, only active periods Reclining with baby Sitting, playing with animals, light, only active periods Standing, playing with animals, light, only active periods Walk/run, playing with animals, light, only active periods Walk/run, playing with animals, light, only active periods Walk/run, playing with animals, moderate, only active periods Walk/run, playing with animals, vigorous, only active periods Standing—bathing dog Painting (Taylor Code 630) Lying queitly, done nothing, lying in bed awake, listening to music (not talking or reading) Sitting quietly, sitting smoking, listening to music (not talking or reading) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing—miscellaneous Sitting—arts and crafts, light effort
nactivity .awn and Garden Miscellaneous	05043 05045 05045 05148 05149 05181 05188 05190 05191 06192 05193 06194 05195 06165 07011 07021 08125 08165 04246 09071 09075 09080 09085 09095	3.5 6.0 2.5 2.5 3.0 4.0 1.5 2.5 2.8 2.8 4.0 5.0 3.5 4.0 1.0 4.5 4.0 3.0 2.0 1.5 2.0	Vacuuming Butchering animals Feeding animals Watering plants Building a fire inside Carrying small children Elder care, disabled adults, only active periods Reclining with baby Sitting, playing with animals, light, only active periods Standing, playing with animals, light, only active periods Walk/run, playing with animals, light, only active periods Walk/run, playing with animals, light, only active periods Walk/run, playing with animals, moderate, only active periods Walk/run, playing with animals, vigorous, only active periods Standing—bathing dog Painting (Taylor Code 630) Lying queitly, done nothing, lying in bed awake, listening to music (not talking or reading) Sitting quietly, sitting smoking, listening to music (not talking or reading) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing—miscellaneous Sitting—arts and crafts, light effort
nactivity .awn and Garden Miscellaneous	05045 05053 05148 05149 05181 05187 05188 05190 05191 05192 05193 05194 05195 06165 07011 07021 08125 08165 04246 09071 09080 09085 09080 09085	6.0 2.5 2.5 2.5 3.0 4.0 1.5 2.8 2.8 4.0 5.0 3.5 4.5 1.0 4.5 4.0 3.0 2.0 1.5 2.0	Butchering animals Feeding animals Watering plants Building a fire inside Carrying small children Elder care, disabled adults, only active periods Reclining with baby Sitting, playing with animals, light, only active periods Standing, playing with animals, light, only active periods Walk/run, playing with animals, light, only active periods Walk/run, playing with animals, moderate, only active periods Walk/run, playing with animals, moderate, only active periods Standing—bathing dog Painting (Taylor Code 630) Lying queitly, done nothing, lying in bed awake, listening to music (not talking or reading) Sitting quietly, sitting smoking, listening to music (not talking or reading) Raking lawn, power mower (Taylor Code 590) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing—miscellaneous Sitting—arts and crafts, light effort
nactivity Lawn and Garden Miscellaneous	05053 05148 05149 05181 05187 05188 05190 05192 05193 05194 05195 06165 07011 07021 08125 08165 04246 09071 09075 09080 09085 09095	2.5 2.5 2.5 3.0 4.0 1.5 2.8 2.8 4.0 5.0 3.5 4.5 1.0 4.5 4.0 3.0 2.0 1.5 2.0	Feeding animals Watering plants Building a fire inside Carrying small children Elder care, disabled adults, only active periods Reclining with baby Sitting, playing with animals, light, only active periods Standing, playing with animals, light, only active periods Walk/run, playing with animals, light, only active periods Walk/run, playing with animals, moderate, only active periods Walk/run, playing with animals, wigorous, only active periods Standing-bathing dog Painting (Taylor Code 630) Lying queitly, done nothing, lying in bed awake, listening to music (not talking or reading) Sitting quietly, sitting smoking, listening to music (not talking or reading) Raking lawn, power mower (Taylor Code 590) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing-miscellaneous Sitting-marts and crafts, light effort
nactivity .awn and Garden Miscellaneous	05148 05149 05181 05187 05188 05190 05191 05192 05193 05194 05195 06165 07011 07021 08125 08165 04246 09071 09075 09080 09085 09090 09095 09100	2.5 2.5 3.0 4.0 1.5 2.5 2.8 4.0 5.0 3.5 4.5 1.0 4.5 4.0 3.0 2.0 1.5 2.0	Watering plants Building a fire inside Carrying small children Elder care, disabled adults, only active periods Reclining with baby Sitting, playing with animals, light, only active periods Standing, playing with animals, light, only active periods Walk/run, playing with animals, light, only active periods Walk/run, playing with animals, moderate, only active periods Walk/run, playing with animals, vigorous, only active periods Standing—bathing dog Painting (Taylor Code 630) Lying queitly, done nothing, lying in bed awake, listening to music (not talking or reading) Sitting quietly, sitting smoking, listening to music (not talking or reading) Raking lawn, power mower (Taylor Code 590) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing—arts and crafts, light effort
nactivity .awn and Garden Miscellaneous	05149 05181 05187 05188 05190 05191 05192 05193 05194 05195 06165 07011 07021 08125 08165 04246 09071 09075 09080 09080 09085 09090	2.5 3.0 4.0 1.5 2.5 2.8 2.8 4.0 5.0 3.5 4.5 1.0 4.5 4.0 3.0 2.0 1.5 2.0	Building a fire inside Carrying small children Elder care, disabled adults, only active periods Reclining with baby Sitting, playing with animals, light, only active periods Standing, playing with animals, light, only active periods Walk/run, playing with animals, light, only active periods Walk/run, playing with animals, moderate, only active periods Walk/run, playing with animals, vigorous, only active periods Standing—bathing dog Painting (Taylor Code 630) Lying queitly, done nothing, lying in bed awake, listening to music (not talking or reading) Sitting quietly, sitting smoking, listening to music (not talking or reading) Raking lawn, power mower (Taylor Code 590) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing—miscellaneous Sitting—arts and crafts, light effort
nactivity .awn and Garden Miscellaneous	05181 05187 05188 05190 05191 05192 05193 05194 05195 06165 07011 07021 08125 08165 04246 09071 09075 09080 09085 09095 09100	3.0 4.0 1.5 2.5 2.8 2.8 4.0 5.0 3.5 4.5 1.0 4.5 4.0 3.0 2.0 1.5 2.0	Carrying small children Elder care, disabled adults, only active periods Reclining with baby Sitting, playing with animals, light, only active periods Standing, playing with animals, light, only active periods Walk/run, playing with animals, light, only active periods Walk/run, playing with animals, moderate, only active periods Walk/run, playing with animals, vigorous, only active periods Standing—bathing dog Painting (Taylor Code 630) Lying queitly, done nothing, lying in bed awake, listening to music (not talking or reading) Sitting quietly, sitting smoking, listening to music (not talking or reading) Raking lawn, power mower (Taylor Code 590) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing—miscellaneous Sitting—arts and crafts, light effort
nactivity .awn and Garden Miscellaneous	05187 05188 05190 05191 05192 05193 05194 05195 06165 07011 07021 08125 08165 04246 09071 09075 09080 09085 09095 09100	4.0 1.5 2.5 2.8 2.8 4.0 5.0 3.5 4.5 1.0 4.5 4.0 3.0 2.0 1.5 2.0 1.8 3.0	Elder care, disabled adults, only active periods Reclining with baby Sitting, playing with animals, light, only active periods Standing, playing with animals, light, only active periods Walk/run, playing with animals, light, only active periods Walk/run, playing with animals, moderate, only active periods Walk/run, playing with animals, vigorous, only active periods Standing-bathing dog Painting (Taylor Code 630) Lying queitly, done nothing, lying in bed awake, listening to music (not talking or reading) Sitting quietly, sitting smoking, listening to music (not talking or reading), watching a movie in a theater Mowing lawn, power mower (Taylor Code 590) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing-miscellaneous Sitting-arts and crafts, light effort
nactivity .awn and Garden Miscellaneous	05188 05190 05191 05193 05193 05194 05195 06165 07011 07021 08125 08165 04246 09071 09075 09080 09085 09090	1.5 2.5 2.8 2.8 4.0 5.0 3.5 4.5 1.0 1.0 4.5 4.0 3.0 2.0 1.5 2.0 1.8 3.0	Reclining with baby Sitting, playing with animals, light, only active periods Standing, playing with animals, light, only active periods Walk/run, playing with animals, light, only active periods Walk/run, playing with animals, moderate, only active periods Walk/run, playing with animals, vigorous, only active periods Standing-bathing dog Painting (Taylor Code 630) Lying queitly, done nothing, lying in bed awake, listening to music (not talking or reading) Sitting quietly, sitting smoking, listening to music (not talking or reading), watching a movie in a theater Mowing lawn, power mower (Taylor Code 590) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing—miscellaneous Sitting—arts and crafts, light effort
nactivity .awn and Garden Miscellaneous	05190 05191 05192 05193 05194 05195 06165 07011 07021 08125 08165 04246 09071 09075 09080 09085 09090	2.5 2.8 2.8 4.0 5.0 3.5 4.5 1.0 4.5 4.0 3.0 2.0 1.5 2.0 1.8 3.0	Sitting, playing with animals, light, only active periods Standing, playing with animals, light, only active periods Walk/run, playing with animals, light, only active periods Walk/run, playing with animals, moderate, only active periods Walk/run, playing with animals, vigorous, only active periods Standing-bathing dog Painting (Taylor Code 630) Lying queitly, done nothing, lying in bed awake, listening to music (not talking or reading) Sitting quietly, sitting smoking, listening to music (not talking or reading) Sitting quietly, sitting smoking, listening to music (not talking or reading) Raking lawn, power mower (Taylor Code 590) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing-miscellaneous Sitting-arts and crafts, light effort
nactivity .awn and Garden Miscellaneous	05191 05192 05193 05194 05195 06165 07011 07021 08125 08165 04246 09071 09075 09080 09085 09090	2.8 2.8 4.0 5.0 3.5 4.5 1.0 4.5 4.0 3.0 2.0 1.5 2.0 1.8 3.0	Standing, playing with animals, light, only active periods Walk/run, playing with animals, light, only active periods Walk/run, playing with animals, moderate, only active periods Walk/run, playing with animals, vigorous, only active periods Standing—bathing dog Painting (Taylor Code 630) Lying queitly, done nothing, lying in bed awake, listening to music (not talking or reading) Sitting quietly, sitting smoking, listening to music (not talking or reading), watching a movie in a theater Mowing lawn, power mower (Taylor Code 590) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing—miscellaneous Sitting—arts and crafts, light effort
nactivity .awn and Garden Miscellaneous	05192 05193 05194 05195 06165 07011 07021 08125 08165 04246 09071 09075 09080 09085 09090	2.8 4.0 5.0 3.5 4.5 1.0 4.5 4.0 3.0 2.0 1.5 2.0 1.8 3.0	Walk/run, playing with animals, light, only active periods Walk/run, playing with animals, moderate, only active periods Walk/run, playing with animals, vigorous, only active periods Standing-bathing dog Painting (Taylor Code 630) Lying queitly, done nothing, lying in bed awake, listening to music (not talking or reading) Sitting quietly, sitting smoking, listening to music (not talking or reading), watching a movie in a theater Mowing lawn, power mower (Taylor Code 590) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing-miscellaneous Sitting-arts and crafts, light effort
nactivity .awn and Garden Miscellaneous	05193 05194 05195 06165 07011 07021 08125 08165 04246 09071 09075 09080 09085 09090	4.0 5.0 3.5 4.5 1.0 1.0 4.5 4.0 3.0 2.0 1.5 2.0 1.8 3.0	Walk/run, playing with animals, moderate, only active periods Walk/run, playing with animals, vigorous, only active periods Standing-bathing dog Painting (Taylor Code 630) Lying queitly, done nothing, lying in bed awake, listening to music (not talking or reading) Sitting quietly, sitting smoking, listening to music (not talking or reading), watching a movie in a theater Mowing lawn, power mower (Taylor Code 590) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing—miscellaneous Sitting—arts and crafts, light effort
nactivity .awn and Garden Miscellaneous	05194 05195 06165 07011 07021 08125 08165 04246 09071 09075 09080 09085 09090 09095	4.0 5.0 3.5 4.5 1.0 1.0 4.5 4.0 3.0 2.0 1.5 2.0 1.8 3.0	Walk/run, playing with animals, moderate, only active periods Walk/run, playing with animals, vigorous, only active periods Standing-bathing dog Painting (Taylor Code 630) Lying queitly, done nothing, lying in bed awake, listening to music (not talking or reading) Sitting quietly, sitting smoking, listening to music (not talking or reading), watching a movie in a theater Mowing lawn, power mower (Taylor Code 590) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing—miscellaneous Sitting—arts and crafts, light effort
nactivity .awn and Garden Miscellaneous	05194 05195 06165 07011 07021 08125 08165 04246 09071 09075 09080 09085 09090 09095	5.0 3.5 4.5 1.0 1.0 4.5 4.0 3.0 2.0 1.5 2.0 1.8 3.0	Walk/run, playing with animals, vigorous, only active periods Standing-bathing dog Painting (Taylor Code 630) Lying queitly, done nothing, lying in bed awake, listening to music (not talking or reading) Sitting quietly, sitting smoking, listening to music (not talking or reading), watching a movie in a theater Mowing lawn, power mower (Taylor Code 590) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing-miscellaneous Sitting-arts and crafts, light effort
nactivity .awn and Garden Miscellaneous	05195 06165 07011 07021 08125 08165 04246 09071 09075 09080 09085 09090	3.5 4.5 1.0 1.0 4.5 4.0 3.0 2.0 1.5 2.0 1.8 3.0	Standing-bathing dog Painting (Taylor Code 630) Lying queitly, done nothing, lying in bed awake, listening to music (not talking or reading) Sitting quietly, sitting smoking, listening to music (not talking or reading), watching a movie in a theater Mowing lawn, power mower (Taylor Code 590) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing-miscellaneous Sitting-arts and crafts, light effort
nactivity .awn and Garden Miscellaneous	06165 07011 07021 08125 08165 04246 09071 09075 09080 09085 09090 09095	4.5 1.0 1.0 4.5 4.0 3.0 2.0 1.5 2.0 1.8 3.0	Painting (Taylor Code 630) Lying queitly, done nothing, lying in bed awake, listening to music (not talking or reading) Sitting quietly, sitting smoking, listening to music (not talking or reading), watching a movie in a theater Mowing lawn, power mower (Taylor Code 590) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing—miscellaneous Sitting—arts and crafts, light effort
nactivity .awn and Garden Miscellaneous	07011 07021 08125 08165 04246 09071 09075 09080 09085 09090 09095	1.0 1.0 4.5 4.0 3.0 2.0 1.5 2.0 1.8 3.0	Lying queitly, done nothing, lying in bed awake, listening to music (not talking or reading) Sitting quietly, sitting smoking, listening to music (not talking or reading), watching a movie in a theater Mowing lawn, power mower (Taylor Code 590) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing-miscellaneous Sitting-arts and crafts, light effort
awn and Garden	07021 08125 08165 04246 09071 09075 09080 09085 09090 09095	1.0 4.5 4.0 3.0 2.0 1.5 2.0 1.8 3.0	Sitting quietly, sitting smoking, listening to music (not talking or reading), watching a movie in a theater Mowing lawn, power mower (Taylor Code 590) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing-miscellaneous Sitting-arts and crafts, light effort
Miscellaneous	08125 08165 04246 09071 09075 09080 09085 09090 09095	4.5 4.0 3.0 2.0 1.5 2.0 1.8 3.0	Mowing lawn, power mower (Taylor Code 590) Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing-miscellaneous Sitting-marts and crafts, light effort
Miscellaneous	08165 04246 09071 09075 09080 09085 09090 09095 09100	4.0 3.0 2.0 1.5 2.0 1.8 3.0	Raking lawn (Taylor Code 600) Picking fruit off trees, picking fruits/vegetables, moderate effort Standing—miscellaneous Sitting—arts and crafts, light effort
	04246 09071 09075 09080 09085 09090 09095 09100	3.0 2.0 1.5 2.0 1.8 3.0	Picking fruit off trees, picking fruits/vegetables, moderate effort Standing-miscellaneous Sitting-arts and crafts, light effort
	04246 09071 09075 09080 09085 09090 09095 09100	2.0 1.5 2.0 1.8 3.0	Picking fruit off trees, picking fruits/vegetables, moderate effort Standing-miscellaneous Sitting-arts and crafts, light effort
	09071 09075 09080 09085 09090 09095 09100	2.0 1.5 2.0 1.8 3.0	Standing-miscellaneous Sitting-arts and crafts, light effort
	09075 09080 09085 09090 09095 09100	1.5 2.0 1.8 3.0	Sitting—arts and crafts, light effort
Occupation	09080 09085 09090 09095 09100	2.0 1.8 3.0	Sitting—arts and crafts, moderate effort
Occupation	09085 09090 09095 09100	1.8 3.0	Otting with the traits, moderate energy
Occupation	09090 09095 09100	3.0	Standing—arts and crafts, light effort
Occupation	09095 09100		Standing—arts and crafts, moderate effort
Occupation	09100	2.5	
Occupation		3.5	Standing—arts and crafts, vigorous effort
Occupation	09105	1.5	Retreat/family reunion activities involving sitting, relaxing, talking, eating
Occupation		2.0	Touring/traveling/vacation involving walking and riding
Occupation	09110	2.5	Camping involving standing, walking, sitting, light-te-moderate effort
Occupation	09115	1.5	Sitting at a sporting event, spectator
,	11015	2.5	Bakery, light effort
	11121	3.0	Custodial, buffing the floor with an electric buffer
	11122	2.5	Custodial, cleaning sink and toilet, light effort
	11123	2.5	Custodial, dusting, light effort
	11124	4.0	Custodial, feathering arena floor, moderate effort
	11125	3.5	Custodial, general cleaning, moderate effort
	11126	3.5	Custodial, mopping, moderate effort
	11127	3.0	Custodial, take out trash, moderate effort
	11128	2.5	Custodial, vacuuming, light effort
	11129	3.0	Custodial, vacuuming, moderate effort
	11151	4.0	Farming, chasing cattle or other livestock on horseback, moderate effort
	11152	2.0	Farming, chasing cattle or other livestock, driving, light effort
	11191	6.0	Farming, taking care of animals (grooming, brushing, shearing sheep, assisting with birthing, medical care, branding
	11495	12.0	Skin diving or SCUBA diving as a frogman (Navy Seal)
	11615	4.0	Lifting items continuously, 10–20 lbs, with limited walking or resting
	11765	3.5	Tailoring, weaving
	11796	3.0	Walking, gathering things at work, ready to leave
	11805	4.0	Walking, pushing a wheelchair
Running	12027	4.5	Jogging on a mini-trampoline
Self Care	13036	1.0	Taking medication, sitting or standing
	13045	2.5	Hairstyling
	13046	1.0	Having hair or nails done by someone else, sitting
Sports	15265	4.5	Golf, walking and carrying clubs
porto	15285	4.3	Golf, walking and carrying clubs
	15591	12.5	Roller blading (in-line skating)
	15685	5.0	Tennis, doubles play
	15711	8.0	Volleyball, competitive play in a gymnasium
	15732	4.0	Track and field (shot, discus, hammer throw)
	15733	6.0	Track and field (high jump, long jump, triple jump, javelin, pole vault)
	15734	10.0	Track and field (steeplechase, hurdles)
ransportation	16015	1.0	Riding in a car or truck
, anoportunon	16016	1.0	Riding in a bus
dalkina			
Valking	17031	3.0	Loading/unloading a car
	17085	2.5	Bird watching
	17105	4.0	Pushing a wheelchair, non occupational setting
	17151	2.0	Walking, less than 2.0 mph, leve! ground, strolling, very slow
	17152	2.5	Walking, 2.0 mph, level, slow pace, firm surface
	17161	2.5	Walking from house to car or bus, from car or bus to go places, from car or bus to and from the work site
		2.5	
	17162		Walking to neighbor's house or family's house for social reasons
	17165	3.0	Walking the dog
	17231	8.0	Walking, 5.0 mph
	17280	2.5	Walking to and from an outhouse
Water Activities	18025	3.3	Canoeing, harvesting wild rice, knocking rice off the stalks
	18355	4.0	Water aerobics, water calisthenics
Polinique Antivities 00		0.0	
	1000–20100 1000–21070		Addition of 19 new codes and description of activities
	18366 0000-20100	8.0	Water jogging Addition of 24 new codes and description of activities

Description of activities Control	Major Heading	Code Number	the Compendium of Physical Activities. Modification Made
Activities (Content ME) are served from 0.0 to 9.0 Charged MEI level from 0.0 to 9.0 Charged description of activities 0.0000 Charged MEI level from 0.0 to 9.0 Charged description of activities 0.0000 Charged MEI level from 0.0 to 9.0 Charged description of activities 0.0000 Charged MEI level from 0.0 to 9.0 Added from 0.0 Charged description of activities 0.0000 Charged MEI level from 0.0 to 9.0 Added from 0.0 to 9.0 Charged description of activities 0.0000 Charged MEI level from 9.0 to 9.0 Added from 0.0 to 9.0 Charged description of activities 0.0000 Charged MEI level from 9.0 to 9.0 Added from 0.0 to 9.0 Charged MEI level from 9.0 to 9.0 Ch			Removed word "general" from the description of activities Changed MET level from 5.0 to 7.0
Dearby Medical "Including some anable movement with minimal rest" to the description of activities Changod MET level from 6 to 9 to 9 to 1000	OHUILIOIRING EXECUSES	02020	Added "jumping jacks" to the description of activities
Dancing Company Mile level from 30 to 70 t			
Dancing County Activities County Coun		02065	Changed MET level from 6.0 to 9.0 Changed MET level form 9.5 to 7.0
Dancing 03110 Changed MET level from 4.0 are 2.5 changed MET level from 5.0 bit 4.0 are 2.5 changed MET level from 6.0 bit 4.0 are 2.5 changed MET level from 6.0 bit 4.0 are 2.5 changed MET level from 6.0 bit 4.0 are 2.5 changed MET leve		02080	Changed MET level from 9.5 to 7.0
G3015 Changed MET level from 6.0 to 6.5 G3026 Added "Greek, Middle Eastern, buls, Iteraneco, belly, and swing dancing" to the description of activities G3030 Changed description of activities to "altiform dancing tast (Taylor Code 125") G4040 Changed MET level from 6.0 to 10 manator, clotchail of the description of activities G5040 Changed MET level from 6.5 to 10 manator, clotchail of the description of activities G5040 Changed MET level from 6.5 to 10 manator, clotchail of the description of activities G5040 Changed MET level from 6.5 to 10 manator, clotchail of the description of activities G5040 Changed MET level from 6.5 to 10 manator, clotchail of the description of activities G5040 Changed MET level from 6.5 to 10 manator, clotchail of the description of activities G5040 Changed MET level from 6.5 to 10 manator, clotchail of the description of activities G5040 Changed MET level from 3.5 to 10 manator, clotchail of the description of activities G5040 Changed MET level from 3.5 to 10 manator, clotchail of the description of activities G5040 Changed MET level from 3.5 to 10 manator, clotchail of the description of activities G5040 Changed MET level from 3.5 to 10 manator, clotchail of the description of activities G5040 Changed MET level from 5.5 to 10 manator, clotchail of the description of activities G5140 Changed MET level from 5.5 to 10 manator, clotchail of the description of activities G5140 Changed MET level from 5.5 to 10 manator, clotchail of the description of activities G5140 Changed MET level from 5.5 to 10 manator, clotchail of the description of activities G5140 Changed MET level from 5.5 to 10 manator, clotchail of the description of activities G5140 Changed MET level from 3.5 to 10 manator, clotchail of the description of activities G5140 Changed MET level from 3.5 to 10 manator, clotchail of activities G5140 Changed MET level from 3.5 to 10 manator, clotchail of activities G5140 Changed MET level from 3.5 to 10 manator, clotchail of activities G5140 Changed MET level from 3.5 to 10 manator			Changed MET level from 4.0 to 2.5
G3025 Added "Greek, Middle Eastern, July, flamenco, belly, and swing demong" to the description of activities of Charged Macrophic on activities to Teacheron demongs (1st. [layor, Code 1st.] (1st. [layor, Code 1st.]) Home Activities (5000 Added "Sambu, targo, 19" Century, mambo, chacha" to the description of activities (5000 Charged MET level from 2.5 to 3.0 persoved "morpping" from the description of activities (5000 Charged MET level from 3.5 to 3.0 persoved "morpping" from the description of activities (5000 Charged MET level from 3.5 to 3.0 persoved "morpping" from the description of activities (5000 Charged MET level from 3.5 to 3.0 persoved "morpping" from the description of activities (5000 Charged MET level from 3.5 to 3.0 persoved "morpping" from the description of activities (5000 Charged MET level from 3.5 to 3.0 persoved "morpping" from the description of activities (5000 Charged MET level from 3.5 to 3.0 persoved "morpping" from the description of activities (5000 Charged MET level from 3.5 to 3.0 persoved "morpping" from the description of activities (5000 Charged MET level from 8.5 to 2.0 persoved "manual appliances" to the description of activities (5000 Charged MET level from 8.5 to 1.2 persoved (5000 Charged MET level from 8.5 to 1.2 persoved (5000 Charged MET level from 8.5 to 1.2 persoved (5000 Charged MET level from 8.5 to 1.2 persoved (5000 Charged MET level from 8.5 to 1.2 persoved (5000 Charged MET level from 8.5 to 1.2 persoved (5000 Charged MET level from 8.5 to 1.2 persoved (5000 Charged MET level from 8.5 to 1.2 persoved (5000 Charged MET level from 8.5 to 1.2 persoved (5000 Charged MET level from 8.5 to 1.2 persoved (5000 Charged MET level from 8.5 to 1.2 persoved (5000 Charged MET level from 8.5 to 1.2 persoved (5000 Charged MET level from 8.5 to 1.2 persoved (5000 Charged MET level from 8.5 to 1.2 persoved (5000 Charged MET level from 8.5 to 1.2 persoved (5000 Charged MET level from 8.5 to 1.2 persoved (5000 Charged MET level from 8.5 to 1.2 persoved (5000 Charged MET level from	ancing	03010	Changed MET level from 6.0 to 4.8; Added "jazz, tap, jitterbug" to the description of activites Changed MET level from 6.0 to 6.5
Fishing and Huntling 4001 4010 4010 4020 40		03025	Added "Greek, Middle Eastern, hula, flamenco, belly, and swing dancing" to the description of activities
Flabling and Huntling O4001 Changed MET level from 3.0 to 3.0 Home Activities (5010 Changed MET level from 2.5 to 3.0 Changed MET level from 2.5 to 2.0 Changed MET level from 2.5 to 2.0 Changed MET level from 2.5 to 2.0 Changed MET level from 3.5 to 3.0 Changed MET level from 3.5 to 4.0 C			Added "samba, tango, 19 th Century, mambo, chacha" to the description of activities
Home Activities 05010 Changed MET level from 2.5 to 3.3 Removed "morphing" from the description of activities 05020 Changed MET level from 3.5 to 3.0 Removed "morphing" from the description of activities 05030 Removed "vicusining" and "imbediese effort" from the description of activities 05030 Removed "vicusining" and "imbediese effort" from the description of activities 05030 Removed "vicusining" and "imbediese effort" from the description of activities 05030 Removed "vicusining" and "activities" to the description of activities 05030 Removed "vicusining" and "activities" of the description of activities 05030 Removed "vicusining" and "activities" of the description of activities 05030 Removed "vicusining" activities 05130 Removed "vicusining" activities 05030 Removed "vicusining" activities 05130 Removed "vicusining"	ishing and Hunting	04001	Changed MET level from 4.0 to 3.0 Changed MET level from 5.0 to 4.0
OSCOD	Iome Activities	05010	Changed MET level from 2.5 to 3.3
Changed MET level from 2.3 to 2.5 co. 26, Added "manual appliances" to the description of activities (1955) Changed MET level from 2.5 to 2.0, Added "manual appliances" to the description of activities (1955) Changed MET level from 1.5 to 2.0, Added "manual appliances" to the description of activities to "food shopping with or without a groceyr cart, standing or wall food to 1.5 co. 1.		05030	Changed MET level from 3.5 to 3.0
Changed MET level from 2.5 to 2.0, Added "manual appliances" to the description of activities O5055 Added "carrying proceines" to the description of activities to "food shopping with or without a groceyr cart, standing or wai 05060 Deleted this category for "Walking-shopping (non-groceyr) shopping O5100 Added Carrying boxes O5145 Deleted this category for "walking-shopping (non-groceyr) shopping O5145 Deleted this category for "rowing household itesm, carrying boxes" O5150 O51616 O51616 O5170 Added "only active periods" to the description of activities O5177 Added "only active periods" to the description of activities O5175 Added "only active periods" to the description of activities O5175 Added "only active periods" to the description of activities O5185 Changed MET level from 3.0 to 2.5. Added "general" to the description of activities O5185 Changed MET level from 3.0 to 2.5. Added "general" to the description of activities O5185 Changed MET level from 3.0 to 2.5. Added "general" to the description of activities O5180 O5			Removed "vacuuming" and "moderate effort" from the description of activities Changed MFT level from 2.3 to 2.5
Changed MET level from 3.5 to 2.3, Changed description of activities to "food shopping with or without a groceyr cart, standing or wail 20066 Changed MET level from 3.5 to 2.3, Changed description of activities or "food shopping with or without a groceyr cart, standing or wail 20066 Added," carrying boxes Changed MET level from 5.5 to 3.8. Added activities "scrubbing bathroom, bathrub" to description of activities Changed MET level from 5.0 to 3.8. Added activities "scrubbing bathroom, bathrub" to description of activities Changed MET level from 2.5 to 4.0. Changed MET level from 2.5 to 4.0. Changed MET level from 3.0 to 2.5. Added "general" to the description of activities Changed MET level from 3.0 to 2.5. Added "general" to the description of activities Changed MET level from 3.5 to 3.0 Changed MET level from 3.5 to 3.0 Changed MET level from 3.5 to 4.0 Changed MET level from 3.5 to 4.0 Changed MET level from 3.5 to 5.4 Added "repairing appliances" to the description of activities OB36 Added "repairing appliances" to the description of activities OB30 Added "repairing appliances" to the description of activities OB30 Added "repairing appliances" to the description of activities OB30 Added "repairing appliances" to the description of activities OB30 Added "repairing appliances" to the description of activities OB30 Added "repairing appliances" to the description of activities OB30 Added "repairing appliances" to the description of activities OB30 Added "repairing appliances" to the description of activities OB30 Added "repairing appliances" to the description of activities OB30 Added "repairing appliances" to the description of activities OB30 Added "repairing appliances" to the description of activities OB30 Added "repairing appliances" to the description of activities OB30 Added "repairing appliances" to the description of activities OB30 Added "repairing appliances" to the description of activities OB30 Added "repairing appliances" to the description of activities OB30 Added "repairing appliances" to the d		05050	Changed MET level from 2.5 to 2.0: Added "manual appliances" to the description of activities
Object O		05056	Changed MET level from 8.0 to 7.5
Added, "carrying boxes" 05130 Changed MET level from 5.5 to 3.8; Added activities "scrubbing bathroom, bathtub" to description of activities 05145 Deleted this category for "moving household itesm, carrying boxes" 05170 Added "only active periods" to the description of activities 05171 Added "only active periods" to the description of activities 05173 Added "only active periods" to the description of activities 05185 Changed MET level from 3.0 to 2.5; Added "general" to the description of activities 05185 Changed MET level from 3.5 to 2.5; Added "general" to the description of activities 05186 Changed MET level from 3.5 to 2.5; Added "general" to the description of activities 05186 Changed MET level from 3.5 to 2.5; Added "general" to the description of activities 05180 Added "repairing appliances" to the description of activities 05180 Added "repairing appliances" to the description of activities 05180 Added "repairing appliances" to the description of activities 05180 Added "repairing appliances" to the description of activities 05180 Added "repairing appliances" to the description of activities 05180 Added "repairing appliances" to the description of activities 05180 Added "repairing appliances" to the description of activities 05180 Added "repairing appliances" to the description of activities 05180 Added "repairing appliances" to the description of activities 05180 Added "repairing appliances" to the description of activities 05180 Added "repairing appliances" to "Alting quietly and watching television" 05180 Added "repairing appliances" to "Alting quietly and watching television" 05180 Added "repairing appliances" to "Stiting quietly and watching television" 05180 Added "repairing appliances" to "Stiting quietly and watching television" 05180 Added "repairing appliances" to "Stiting quietly and watching television" 05180 Added "repairing appliances" to "Stiting quietly and watching television" 05180 Added "repairing appliances" to "Stiting quietly and watching television" 05180			
Deleted this category for "moving household lessm, carrying boxes" O5170 Added "only active periods" to the description of activities O5171 Added "only active periods" to the description of activities O5175 Added "only active periods" to the description of activities O5186 Added "only active periods" to the description of activities O5186 Changed MET level from 3.0 to 2.5; Added "general" to the description of activities O6020 Changed MET level from 3.5 to 3.0 O6020 Added "building a fence" to the description of activities O6140 Added "building a fence" to the description of activities O6200 Added "painting fence" to the description of activities O6201 Added "painting fence" to the description of activities O6201 Added "painting fence" to the description of activities O6201 Added "painting fence" to the description of activities O6201 Added "composting" to the description of activities O6201 Added "composting" to the description of activities O6202 Added "composting" to the description of activities O6203 Added "composting" to the description of activities O6204 Added "composting" to the description of activities O6205 Added "composting" to the description of activities O6206 Added "composting" to the description of activities O6206 Added "composting" to the description of activities O6207 O6		05120	Added, "carrying boxes"
Company		05145	Deleted this category for "moving household itesm, carrying boxes"
Added "only active periods" to the description of activities			Added "only active periods" to the description of activities
Miscellaneous O5180		05171	Added "only active periods" to the description of activities
Home Repair Changed MET level from 3.5 to 4.0 Changed MET level from 4.5 to 4.0 Changed MET level from 4.5 to 4.0 Changed MET level from 4.5 to 4.0 Changed MET level from 9.5 to 4.0 Changed MET level from 9.5 to 4.0 Changed MET level from 0.9 to 1.0, Change description of activities to "lying quietly, watching television" Changed MET level from 0.9 to 1.0, Change description of activities to "lying quietly, watching television" Changed MET level from 0.9 to 1.0, Change description of activities to "lying quietly, watching television" Changed MET level from 0.9 to 1.0, Change description of activities to "lying quietly, watching television" Changed MET level from 0.0 to 1.0, Changed MET level from 4.0 to 4.0 Changed MET level from 4.0 to 4.5 (Changed MET level from 4.0 to 4.5) Endowed "(Taylor Code 610)" Changed MET level from 4.0 to 4.5, Removed "(Taylor Code 600)" Changed MET level from 4.0 to 4.3, Removed "(Taylor Code 600)" Changed MET level from 4.0 to 4.3, Removed "(Taylor Code 600)" Changed MET level from 4.0 to 4.3, Removed "(Taylor Code 600)" Changed MET level from 4.0 to 4.3, Removed "(Taylor Code 600)" Changed MET level from 4.0 to 4.3, Removed "(Taylor Code 600)" Changed MET level from 4.0 to 4.3, Removed "(Taylor Code 600)" Changed MET level from 4.0 to 4.3, Removed "(Taylor Code 600)" Changed MET level from 5.0 to 4.0 ORS250		05180	Added "only active peridos" to the description of activities
Home Repair 06020 Changed MET level from 4.5 to 4.0 Added "building a fence" to the description of activities 06230 Added "building a fence" to the description of activities 06230 Added "inpairing appliances" to the description of activities to "lying quietly, watching television" Changed MET level from 0.9 to 1.0; Change description of activities 070710 Changed MET level from 0.9 to 1.0; Change description of activities 070710 Changed MET level from 0.9 to 1.0; Change description of activities 070710 O70710			Changed MET level from 3.0 to 2.5; Added "general" to the description of activities Changed MET level from 3.5 to 3.0
inactivity 07010 Cay Added "repairing appliances" to the description of activities or "tying quietly, watching television" Changed MET level from 0.9 to 1.0 Change description of activities or "String quietly and watching television" Changed description of activities and Garden 08030 Added "composting" to the description of activities Added "composting" to the description of activities or "String quietly and watching television" Added "wheelbarrow chores" to the description of activities Added "composting" to the description of activities or "String quietly and watching television" Added "composting" to the description of activities Added "composting" to the description of activities or "Changed MET level from 4.0 to 4.5 to 5.5, Removed "(Taylor Code 600)" Added "Changed MET level from 4.0 to 4.3, Removed "(Taylor Code 600)" Added "policy leaf blower edger" to description of activities or "Changed MET level from 4.0 to 4.3, Removed "(Taylor Code 600)" Added "picking leaf blower, edger" to description of activities or "Changed MET level from 2.0 to 2.3; Add "duplicating machine" to description of activities Added "typing" to description of activities or "Change MET level from 2.0 to 2.3; Add "duplicating machine" to description of activities Added "typing" to the description of activities and "Taylor Code 600" Added "moderate effort" to the description of activities and "Taylor Code 600" Added "moderate effort" to the description of activities and "Taylor Code 600" Added "Code of the description of activities and "Taylor Code 600" Added "Code of the description of activities and "Taylor Code 600" Added "Code of the description of activities and "Taylor Code 600" Added "Code of the description of activities and "Taylor Code 600" Added "Code of the description of activities and "Taylor Code 600" Added "Code of the description of activities and "Taylor Code 600" Added "Code of the description of activities and "Taylor Code 600" Added "Code of the description of activities and "Taylor Code 600" Added "Code of the de	lome Repair	06020	Changed MET level from 4.5 to 4.0
Inactivity 07010 Changed MET level from 0.9 to 1.0; Change description of activities to "lying quietly, watching television" O7020 Changed description of activities to "lying quietly, watching television" Changed description of activities 08060 Added "ownposting" to the description of activities 08060 Removed "(see occupation, shoveling)" and added "chain saw" Changed MET level from 4.0 to 4.5 Changed MET level from 4.0 to 4.5 Changed MET level from 4.0 to 4.5 Removed "(Taylor Code 610)" Added "Ising leaf blower, edger" to description of activities 08245 Added "Using leaf blower, edger" to description of activities 08245 Changed MET level from 5.0 to 4.0 Added "lying leaf blower, edger" to description of activities 08245 Changed MET level from 5.0 to 4.0 Added "hybiding flowers or vegetables" to description of activities 08245 Changed MET level from 2.0 to 2.3; Add "duplicating machine" to description of activities 08246 Added "moderate effort" to the description of activities 08246 Added "moderate effort" to the description of activities 08246 Added "moderate effort" to the description of activities 08246 Added "(walking), moderate effort" to the description of activities 08246 Added "(walking), moderate effort" to the description of activities 08246 Added "(walking), moderate effort" to the description of activities 08246 Added "(walking), moderate effort" to the description of activities 08246 Added "(walking), moderate effort" to the description of activities 08246 Added "(walking), moderate effort" to the description of activities 08246 Added "(walking), moderate effort" to the description of activities 08246 Added "(walking), moderate effort" to the description of activities 08246 Added "(walking), moderate effort" to the description of activities 08246 Added "(walking), moderate effort" to the description of activities 08246 Added "(walking), moderate effort" to the description of activities 08246 Added "(walking), moderate effort" to the description of activities 08246 Added "(walking), moderate effort"		06140	Added "repairing appliances" to the description of activities
Lawn and Garden 08030 Added "wheelbarrow chores" to the description of activities (Secription of activities) Added "composting" to the description of activities (Secription of activities) Added "composting" to the description of activities (Changed MET level from 4.5 to 5.5, Removed "(Taylor Code 610)" OB160 Changed MET level from 4.0 to 4.3 Removed "(Taylor Code 600)" OB215 Changed MET level from 4.0 to 4.3 Removed "(Taylor Code 600)" OB225 Added "Using leaf blower, edger" to description of activities Changed MET level from 5.0 to 4.0 OB226 Changed MET level from 2.0 to 2.3, Add "duplicating machine" to description of activities Miscellaneous 09020 Changed MET level from 2.0 to 2.3, Add "duplicating machine" to description of activities Added "moderate effort" to the description of activities Added "wignous effort" to the description of activities 11070 Added "walking), moderate effort" to the description of activities Added "wignous effort" to the description of activities Changed MET level from 8.0 to 4.0 Added "wignous effort" to the description of activities Added "wignous effort" to the descripti	nactivity		Added "painting fence" to the description of activites Changed MET level from 0.9 to 1.0; Change description of activities to "lying quietly, watching television"
Added "composting" to the description of activities Changed MET level from 4.0 to 4.5 Changed MET level from 5.0 to 4.0 Added "loking lowers or vegetables" to description of activities Changed MET level from 2.0 to 2.3; Add "duplicating machine" to description of activities Added "making bed (nursing)" to the description of activities Added "making bed (nursing)" to the description of activities Added "walking, moderate effort" to the description of activities Added "cutting hay, irrigation work" to the description of activities Added "horses" to the description of activities Changed MET level from 8.0 to 4.0 Added "align effort" to the description of activities Added "horses" to be activated to the description of activities Added "horses" to be activated to the description of activities Added "horses" to be activated to the description of act	•	07020	Changed description of activities to "Sitting quietly and watching television"
Changed MET level from 4.0 to 4.5 to 5.5; Removed "(Taylor Code 610)" OB140 Changed MET level from 4.0 to 4.5 to 5.5; Removed "(Taylor Code 600)" Added "Using leat blower, edger" to description of activities OB250 Changed MET level from 5.0 to 4.0 OB250 Added "picking flowers or vegetables" to description of activities Change MET level from 2.0 to 2.3; Add "duplicating machine" to description of activities Added "picking flowers or vegetables" to description of activities Change MET level from 2.0 to 2.3; Add "duplicating machine" to description of activities Added "picking flowers or vegetables" to description of activities Added "moderate effort" to the description of activities Added "making bed (nursing)" to the description of activities Added "vigorous effort" to the description of activities Added "walking), moderate effort" to the description of activities Added "vigorous effort" to the description of activities Added "cutting hay, irrigation work" to the description of activities Added "horses" to the description of activities Added "horses" to the description of activities Added "light effort" to the description of activities Added "light effort" to the description of activities Added "moderate effort" to the description of activities Added "moderate effort" to the description of activities Added "moderate effort" to the description of activities Added "sitting, reading, driving at work" to the description of activities Added "sating at a business meeting" to the description of activities Added "sating at a business meeting" to the description of activities to read "standing, light (bartending, store clerk, assembling, and talking at work, changing clothes when teaching physical education" Added "itermittent" to the description of activities Running 12160 Replaced "running" with "jogging", Changed the description of activities Removed "wheelchair wheeling" Changed MET level from 4.0 to 2.0 Changed Wet level from 4.0 to 2.0 Changed Met level from 4.0 to 2.0	awn and daruen	08050	Added "composting" to the description of activities
Occupation 1010 Changed MET level from 4.0 to 4.5, Removed "(Taylor Code 600)" Added "Using leaf blower, edger" to description of activities Changed MET level from 5.0 to 4.0 Occupation 1010 Added "picking flowers or vegetables" to description of activities Occupation 11010 Added "molerate effort" to the description of activities Added "making bed (nursing)" to the description of activities Added "making bed (nursing)" to the description of activities Added "making bed (nursing)" to the description of activities Added "making bed (nursing)" to the description of activities Added "making bed (nursing)" to the description of activities Added "walking), moderate effort" to the description of activities Added "cutting hay, irrigation work" to the description of activities Added "cleaning corral or barn, vigorous effort" to the description of activities Added "cleaning corral or barn, vigorous effort" to the description of activities Added "moderate effort" to the description of activities Added "moderate effort" to the description of activities Changed MET level from 8.0 to 4.0 Added "sating at a business meeting" to the description of activities Added "sating at a business meeting" to the description of activities Added "sating at a business meeting" to the description of activities Changed MET level from 2.5 to 2.3; Changed the description of activities to read "standing, light (bartending, store clerk, assembling, and pulcating, puriting up a Christmas tree), standing and talking at work, changing clothes when teaching physical education" Added "intermittent" to the description of activities Running 12160 Replaced "running" with "logging", Changed to code 12025 Replaced "running" with "logging", Changed to code 12025 Changed MET level from 4.0 to 2.0			Removed "(see occupation, shoveling)" and added "chain saw" Changed MET level from 4.5 to 5.5; Removed "(Taylor Code 610)"
Miscellaneous 09020 Changed MET level from 2.0 to 2.3; Add "duplicating machine" to description of activities Miscellaneous 09020 Occupation 11010 Added "picking flowers or vegetables" to description of activities Occupation 11010 Added "moderate effort" to the description of activities 11070 Added "moderate effort" to the description of activities 11140 Added "wigorous effort" to the description of activities 11150 Added "culting hay, irrigation work" to the description of activities 11160 Added "culting hay, irrigation work" to the description of activities 11200 Added "cleaning corral or barn, vigorous effort" to the description of activities 11201 Added "dight effort" to the description of activities 11202 Added "light effort" to the description of activities 11203 Added "cleaning corral or barn, vigorous effort" to the description of activities 11204 Added "light effort" to the description of activities 11205 Added "sight effort" to the description of activities 11206 Added "light effort" to the description of activities 11207 Added "cleaning corral or barn, vigorous effort" to the description of activities 11208 Added "cleaning corral or barn, vigorous effort" to the description of activities 11209 Added "cleaning corral or barn, vigorous effort" to the description of activities 11200 Added "cleaning corral or barn, vigorous effort" to the description of activities 11200 Added "cleaning corral or barn, vigorous effort" to the description of activities 11200 Added "cleaning corral or barn, vigorous effort" to the description of activities 11200 Added "moderate effort" to the description of activities 11200 Added "cleaning corral or barn, vigorous effort" to the description of activities 11200 Added "cleaning corral or barn, vigorous effort" to the description of activities 11200 Added "cleaning corral or barn, vigorous effort" to the description of activities 11200 Added "cleaning corral or barn, vigorous effort" to the description of activities 11200 Added "cleaning corral or barn		08140	Changed MET level from 4.0 to 4.5
Miscellaneous 09020 Change MET level from 2.0 to 2.3; Add "duplicating machine" to description of activities 09040 Added "typing" to description of activities added "typing" to description of activities 11070 Added "moderate effort" to the description of activities 11140 Added "waking bed (nursing)" to the description of activities 11150 Added "vigorous effort" to the description of activities 11150 Added "(walking), moderate effort" to the description of activities 11150 Added "cutting hay, irrigation work" to the description of activities 11200 Added "cleaning corral or barn, vigorous effort" to the description of activities 11200 Added "light effort" to the description of activities 11200 Added "inderate effort" to the description of activities 11230 Added "moderate effort" to the description of activities 11230 Added "inderate effort" to the description of activities 11230 Added "stifting, reading, driving at work" to the description of activities 11580 Added "stifting, reading, driving at work" to the description of activities 11590 Added "stating at a business meeting" to the description of activities 11590 Added "stating at a business meeting" to the description of activities 11590 Added "stating at a business meeting" to the description of activities 11590 Added "stating at a business meeting" to the description of activities 11590 Added "stating at a business meeting" to the description of activities 11590 Added "stating at a business meeting" to the description of activities 11590 Added "intermittent" to the description of activit		08215	Added "Using leaf blower, edger" to description of activities
Occupation 11010 Added "typing" to description of activities 11070 Added "moderate effort" to the description of activities 11070 Added "making bed (nursing)" to the description of activities 11140 Added "vigorous effort" to the description of activities 11150 Added "(walking), moderate effort" to the description of activities 11160 Added "compation work" to the description of activities 11190 Added "compation work" to the description of activities 11200 Added "cleaning corral or barn, vigorous effort" to the description of activities 11200 Added "light effort" to the description of activities 11200 Added "moderate effort" to the description of activities 11200 Added "moderate effort" to the description of activities 11200 Added "moderate effort" to the description of activities 11200 Added "sitting, reading, driving at work" to the description of activities 11200 Added "teaching stretching or yoga" 11200 Added "teaching stretching or yoga" 11200 Changed MET level from 2.5 to 2.3; Changed the description of activities to read "standing, light (bartending, store clerk, assembling, to duplicating, putting up a Christmas tree), standing and talking at work, changing clothes when teaching physical education" 11620 Added "intermittent" to the description of activities 11620 Running 12160 Replaced "running" with "joggings"; Changed to code 12025 12190 Removed "wheelchair wheeling" 12190 Changed MET level from 4.0 to 2.0		08250	Added "nicking flowers or vegetables" to description of activities
Occupation 11010 Added "moderate effort" to the description of activities 11070 Added "making bed (nursing)" to the description of activities 11150 Added "vigorous effort" to the description of activities 11150 Added "cutting hay, irrigation work" to the description of activities 11160 Added "cutting hay, irrigation work" to the description of activities 11200 Added "horses" to the description of activities 11200 Added "light effort" to the description of activities 11200 Added "light effort" to the description of activities 11230 Added "moderate effort" to the description of activities 11230 Added "light effort" to the description of activities 11528 Changed MET level from 8.0 to 4.0 11580 Added "sitting, reading, driving at work" to the description of activities 11585 Added "eating at a business meeting" to the description of activities 11586 Added "leaching stretching or yoga" 11600 Changed MET level from 2.5 to 2.3; Changed the description of activities to read "standing, light (bartending, store clerk, assembling, duplicating, putting up a Christmas tree), standing and talking at work, changing clothes when teaching physical education" Added "intermittent" to the description of activities Replaced "running" with "joggings"; Changed to code 12025 Removed "wheelchair wheeling" Changed MET level from 4.0 to 2.0	viscellaneous		Change MET level from 2.0 to 2.3; Add "duplicating machine" to description of activities Added "typing" to description of activities
Added "vigorous effort" to the description of activities Added "(walking), moderate effort" to the description of activities Added "cutting hay, irrigation work" to the description of activities Added "cutting hay, irrigation work" to the description of activities Added "cleaning corral or barn, vigorous effort" to the description of activities Added "light effort" to the description of activities Added "ilight effort" to the description of activities Added "moderate effort" to the description of activities Changed MET level from 8.0 to 4.0 Added "sitting, reading, driving at work" to the description of activities Added "eating at a business meeting" to the description of activities Added "eating at a business meeting" to the description of activities Added "teaching stretching or yoga" Changed MET level from 2.5 to 2.3; Changed the description of activities to read "standing, light (bartending, store clerk, assembling, to duplicating, putting up a Christmas tree), standing and talking at work, changing clothes when teaching physical education" Running 12160 Removed "wheelchair wheeling" Self Care 13050 Changed MET level from 4.0 to 2.0	Occupation	11010	Added "moderate effort" to the description of activities
Added "cutting hay, irrigation work" to the description of activities Added "horses" to the description of activities Added "loght effort" to the description of activities Added "light effort" to the description of activities Added "light effort" to the description of activities Added "moderate effort" to the description of activities Added "moderate effort" to the description of activities Changed MET level from 8.0 to 4.0 Added "sitting, reading, driving at work" to the description of activities Added "eating at a business meeting" to the description of activities Added "eating stretching or yoga" Changed MET level from 2.5 to 2.3; Changed the description of activities to read "standing, light (bartending, store clerk, assembling, in duplicating, putting up a Christmas tree), standing and talking at work, changing clothes when teaching physical education" Added "intermittent" to the description of activities Added "intermittent" to the description of activities to read "standing, light (bartending, store clerk, assembling, in duplicating, putting up a Christmas tree), standing and talking at work, changing clothes when teaching physical education" Added "intermittent" to the description of activities Running 12160 Running 12160 Removed "wheelchair wheeling" Self Care 13350 Changed MET level from 4.0 to 2.0		11140	Added "vigorous effort" to the description of activities
Added "cleaning corral or barn, vigorous effort" to the description of activities 11200 Added "light effort" to the description of activities 11200 Added "moderate effort" to the description of activities 11528 Changed MET level from 8.0 to 4.0 11580 Added "sitting, reading, driving at work" to the description of activities 11580 Added "sitting, reading, driving at work" to the description of activities 11580 Added "eating at a business meeting" to the description of activities 11590 Added "teaching stretching or yoga" 11600 Changed MET level from 2.5 to 2.3; Changed the description of activities to read "standing, light (bartending, store clerk, assembling, in duplicating, putting up a Christmas tree), standing and talking at work, changing clothes when teaching physical education" 11620 Added "intermittent" to the description of activities to read "standing, light (bartending, store clerk, assembling, in duplicating, putting up a Christmas tree), standing and talking at work, changing clothes when teaching physical education" 11620 Added "intermittent" to the description of activities 11620 Added "intermittent" to the description of activities 11620 Added "intermittent" to the description of activities 11620 Changed MET level from 2.0 to 2.0 Self Care 13050 Changed MET level from 4.0 to 2.0			Added "cutting hav, irrigation work" to the description of activities
Added "light effort" to the description of activities Added "moderate effort" to the description of activities Changed MET level from 8.0 to 4.0 Added "sitting, reading, driving at work" to the description of activities Added "eating at a business meeting" to the description of activities Added "eating at a business meeting" to the description of activities Added "eating stretching or yoga" Changed MET level from 2.5 to 2.3; Changed the description of activities to read "standing, light (bartending, store clerk, assembling, to the description of activities to read "standing, light (bartending, store clerk, assembling, to the description of activities to read "standing, light (bartending, store clerk, assembling, to the description of activities to read "standing, light (bartending, store clerk, assembling, to the description of activities to read "standing, light (bartending, store clerk, assembling, to the description of activities of activities of the description of activities of activities of the description of activities			Added "cleaning correl or here vigorous affort" to the description of activities
Changed MET level from 8.0 to 4.0 Added "sitting, reading, driving at work" to the description of activities Added "acting at a business meeting" to the description of activities Added "eaching stretching or yoga" Changed MET level from 2.5 to 2.3; Changed the description of activities to read "standing, light (bartending, store clerk, assembling, duplicating, putting up a Christmas tree), standing and talking at work, changing clothes when teaching physical education" Added "intermittent" to the description of activities to read "standing, light (bartending, store clerk, assembling, duplicating, putting up a Christmas tree), standing and talking at work, changing clothes when teaching physical education" Added "intermittent" to the description of activities to read "standing, light (bartending, store clerk, assembling, duplicating, putting up a Christmas tree), standing and talking at work, changing clothes when teaching physical education" Figure 1.52 Running 12160 Removed "wheelchair wheeling" Self Care 13050 Changed MET level from 4.0 to 2.0		11220	
Added "teaching stretching or yoga" Added "teaching stretching or yoga" Changed MET level from 2.5 to 2.3; Changed the description of activities to read "standing, light (bartending, store clerk, assembling, in duplicating, putting up a Christmas tree), standing and talking at work, changing clothes when teaching physical education and duplicating, putting up a Christmas tree), standing and talking at work, changing clothes when teaching physical education and date intermittent to the description of activities to read "standing, light (bartending, store clerk, assembling, and talking at work, changing clothes when teaching physical education and talking at work, changing clothes when teaching physical education are considered. The constant are considered and the constant are constant and the constant are constant.		11528	Changed MET laughtrom 9.0 to 4.0
Added "intermittent" to the description of activities to read "standing, light (bartending, store clerk, assembling, duplicating, putting up a Christmas tree), standing and talking at work, changing clothes when teaching physical education" Added "intermittent" to the description of activities Running 12160 Replaced "running" with "jogging"; Changed to code 12025 Removed "wheelchair wheeling" Self Care 13050 Changed MET level from 4.0 to 2.0		11585	Added "sitting, reading, driving at work" to the description of activities Added "eating at a business meeting" to the description of activities
Running 12160 Added "intermittent" to the description of activities Running 12160 Replaced "running" with "joggling"; Changed to code 12025 12190 Removed "wheelchair wheeling" Self Care 13050 Changed MET level from 4.0 to 2.0		11000	Audeu teatining stationing of yoga
Running 12160 Replaced "running" with "jogging"; Changed to code 12025 12190 Removed "wheelchair wheeling" Self Care 13050 Changed MET level from 4.0 to 2.0			duplicating, putting up a Christmas tree), standing and talking at work, changing clothes when teaching physical education"
Self Care 13050 Changed MET level from 4.0 to 2.0		12160	Replaced "running" with "jogging"; Changed to code 12025
Sports 15250 Changed MET level from 3.5 to 8.0 15260 Deleted this code for the Taylor Code 090 for "golf, carrying clubs" 15280 Deleted this code for the Taylor Code 080 for "golf, pulling clubs" 15280 Added "growing byrce" to the description of activities	Self Care	12190 13050	Removed "wheelchair wheeling" Changed MET level from 4.0 to 2.0
15280 Deleted this code for the Taylor Code 080 for "golf, pulling clubs" 15280 Added "grooming byres" to the description of activities	Sports	15250	Changed MET level from 3.5 to 8.0 Polished this gods for the Toylor Code 000 for "golf, carrying clubs"
15200 Added "grooming harea" to the description of potanties		15280	Deleted this code for the Taylor Code 080 for "golf, carrying clubs"
15380 Added growning noise to the description of activities 15680 Represents Taylor Code 430 intensity level for doubles tennis		15380 15680	Added "grooming horse" to the description of activities Represents Taylor Code 430 Intensity level for doubles tennis
17010 Demoved "general" from the description of activities	Molleing	15710	Pamound "apparal" from the description of activities.
17100 Added "or walk with children" to the description of activities	waiking	17100	Added "or walk with children" to the description of activities
17150 Changed description of activities to "household walking"			Changed description of activities to "household walking"
17160 Changed the MET level from 2.5 to 3.5 and changed description of activities to "walking for pleasure (Taylor Code 010)"		17160	Changed the MET level from 2.5 to 3.5 and changed description of activities to "walking for pleasure (Taylor Code 010)"
17190 Changed the MET level from 3.5 to 3.3		17190	Changed the MET level from 3.5 to 3.3
17200 Changed the MET level from 4.0 to 3.8; Added "walking for exercise" to the description of activities 17220 Changed MET level from 4.0 to 5.0		17220	Changed MET level from 4.0 to 5.0
17230 Changed MET level from 4.5 to 6.3 17250 Removed "walking the dog" from the description of activities		17230	Changed MET level from 4.5 to 6.3
Water Activities 18170 Changed code number to Occupational, 11495	Water Activities	18170	Changed code number to Occupational, 11495
18240 Changed MET level from 8.0 to 7.0 18250 Changed MET level from 8.0 to 7.0			Changed MET level from 8.0 to 7.0 Changed MET level from 8.0 to 7.0

by a standard RMR. In the 1993 Compendium, MET values were assigned to each activity based on the "best representation" of an intensity level from published lists and selected unpublished data (1). For activities not in original lists or in other unpublished reports of the energy cost of physical activities, data were obtained from published literature and assigned a measured MET value or was estimated from similar activities with a known MET value (1).

MET levels for 42 activities in the updated Compendium were changed based on published and unpublished studies that measured the energy cost of PAs (4,7-9,16,17, 21,22,24,27–30,32,35,37). Since the publication of the 1995 Pate et al. (23) moderate activity recommendation, there has been widespread interest among health educators, clinicians, public health specialists, and fitness professionals to recommend types of activities that are classified as moderate intensity. There was some concern, however, that the MET levels for many household, lawn and garden, walking, and some occupational activities frequently performed by older adults, people of color, and women of all ages had not been objectively measured, but had been assigned estimated MET intensities. Thus, in 1997-1998, a series of studies were funded by the International Life Sciences Institute Research Foundation to measure the energy cost of selected household, lawn and garden, walking, recreational, and occupational activities using indirect calorimetry methods in laboratory and field settings (4,9,29,30,35). dissertations and other research studies have also focused on measuring the MET intensities of household, lawn and garden, cultural, and custodial activities (8,9,27,28).

Because changes in MET intensities for selected activities may change the energy cost of PA, investigators using the 1993 Compendium in cohort studies may wish to continue using the 1993 Compendium to compute the energy cost of activities. However, for newer activities, codes in the 2000 Compendium are appropriate for use.

As in the 1993 Compendium of Physical Activities, the updated Compendium provides data for adults without handicaps or other conditions that would significantly alter their mechanical or metabolic efficiency. Also, a study is underway at the University of North Carolina at Chapel Hill to measure the energy cost of individual and group PAs among youth, ages 8–18 yr (J. A. Harrell, School of Nursing, University of North Carolina at Chapel Hill, 1999). Another study is underway at the Edward Hines Jr. VA Hospital to measure the energy costs of physical activities in adults with spinal cord injuries (W. E. Langbein and E. Collins, Hine Hospital, Maywood, IL, 1999). When completed, the projects will provide compendiums of the PAs measured in the studies.

Calculation of energy cost. Methods used to calculate the energy cost of activities in the 1993 Compendium were explained in detail by Ainsworth et al. (1). There has been concern that the absolute MET intensities presented in the Compendium may be inaccurate for people of different body mass and body fat percentage (10,27). For weightbearing activities, Schmitz et al. (27) and Howell et al. (10) showed that the energy cost of activity was higher among

heavier individuals than indicated by the Compendium's MET intensities. For these individuals, use of the MET intensities in the Compendium would underestimate the actual energy cost of weight bearing activity. The opposite pattern would be observed for non-weight-bearing activities. Schmitz (27) discusses these concerns in relation to energy expended during household chores among obese and lean women. Similar observations may apply to individuals who differ in age, cardiorespiratory fitness levels, and mechanical efficiency and when activities are performed in varied geographic and environmental conditions (33). It should be emphasized that the Compendium was developed to facilitate the coding of PAs and to compare coding across studies. It does not take into account individual differences that may alter the energy cost of movement. Thus, a correction factor may be needed to adjust for individual differences when estimating the energy cost of PA in individuals; but no such general correction is available at this time.

Use of the Compendium in PA validation studies. The Compendium facilitates the use of PA records to record the type, intensity, and duration of activities in a systematic manner. PA records and the Compendium have been used to validate PA surveys commonly used in observational and clinical studies (25). In 1993, we presented a sample PA record for use with the Compendium (1). We have since developed an updated PA record that is easy to use and code and provides a detailed explanation for the use of PA records and the Compendium in PA validation studies.

DISCUSSION AND LIMITATIONS

The value and limitations of using the Compendium of Physical Activities to determine the energy cost of PA in adults was previously discussed in the 1993 publication (1). Because the MET levels presented in the Compendium are based on the energy cost of actual movement, investigators should remind participants to recall only the time spent in movement when using the Compendium to estimate the energy cost of activities. It should also be stressed that the Compendium was not developed to determine the precise energy cost of PA within individuals, but instead to provide an activity classification system that standardizes the MET intensities of PAs used in survey research. This limits the use of the Compendium in estimating the energy cost of PA in individuals in ways that account for differences in body mass, adiposity, age, sex, efficiency of movement, geographic and environmental conditions in which the activities are performed. Thus, individual differences in energy expenditure for the same activity can be large and the true energy cost for a person may or may not be close to the stated mean MET level as presented in the Compendium.

As was true with the original Compendium, the updated version contains specific activities in which the MET values were not derived from indirect calorimetry; however, many codes have been updated using measured MET values. The updated Compendium still has some codes in which MET values were estimated from activities having similar

movement patterns. Therefore, these estimates may have ill-defined confidence limits around the mean MET values.

SUMMARY

The updated version of the 1993 Compendium of Physical Activities includes new major headings for religious and volunteer activities, new five-digit codes for 129 specific activities, and modifications to codes for 94 specific activities. Despite its known limitations, the Compendium has proven useful in coding physical activity surveys or records and in providing examples of activities within broad intensity ranges for use for PA counseling in research, education, and clinic settings. However, additional methods are needed to account for differences in individual characteristics that may alter the energy costs of physical activities.

NOTES

An unpublished edition of the Compendium was developed in 2000 to track changes from the first edition and to explore possible changes in future editions. The unpublished edition includes a two-digit number that identifies the version of the Compendium. The version number should make it simple to make corrections and additions to activity codes and their intensities while retaining the ability to code questionnaires consistently with questionnaires collected earlier on the same person. A copy of the unpublished tracking

REFERENCES

- AINSWORTH, B. E., W. L. HASKELL, A. S. LEON, et al. Compendium of physical activities: energy costs of human movement. *Med. Sci. Sports Exerc.* 25:71–80, 1993.
- AINSWORTH, B. E., M. L. IRWIN, C. L. ADDY, M. C. WHITT, and L. M. STOLARCZYK. Moderate physical activity patterns among minority women: the Cross-Cultural Activity Participation Study. J. Women's Health 8:805–813, 1999.
- AINSWORTH, B. E., B. STERNFELD, M. T. RICHARDSON, and K. JACK-SON. Evaluation of the Kaiser Physical Activity Survey in Women. Med. Sci. Sports Exerc. 32(Suppl.), 2000.
- BASSETT, D. R. JR., B. E. AINSWORTH, A. M. SWARTZ, S. J. STRATH, W. L. O'BRIEN, and G. A. KING. Validity of four motion sensors in measuring moderate intensity physical activity. *Med. Sci. Sports Exerc.* 32(Suppl.):S471–S480, 2000.
- BAYNE-SMITH, M. Race, Gender, and Health. Thousand Oaks, CA: Sage Publications, 1996, p. 134.
- CRESPO, C. J., S. J. KETEYIAN, G. W. HEATH, and C. T. SEMPOS. Leisure-time physical activity among US adults: results from the Third National Health and Nutrition Examination Survey. Arch. Intern. Med. 156:93–98, 1996.
- EMPLAINCOURT, P. O. Inter-individual Variability in the Energy Cost of Several Habitual Physical Activities. Unpublished Ph. D. Dissertation, University of Alabama, Tuscaloosa, AL, 1999.
- GILMAN, M. B., H. HOULE, L. FIRZELL, K. HEADBIRD, J. L. DURSTINE, and B. E. AINSWORTH. Metabolic cost of traditional American Indian activities in women over 40 years of age (Abstract). *Med. Sci. Sports Exerc.* 32:S53, 2000.
- Hendelman, D., K. Miller, C. Bagget, E. Debold, and P. Freedson. Validity of accelerometry for the assessment of moderate intensity physical activity in the field. *Med. Sci. Sports Exerc.* 32(Suppl.):S442–S449, 2000.
- HOWELL, W., C. EARTHMAN, P. REID, J. DELANEY, and L. HOUTKOOPER.
 Doubly labeled water validation of the Compendium of Physical

version of the Compendium may be obtained from Dr. Barbara Ainsworth.

Many people participated in the identification of specific activities and the modification of existing codes for the updated Compendium of Physical Activities. Although the individuals involved are too numerous to mention, we wish to thank a few colleagues and graduate students (listed by their institutional affiliation) for their valuable contributions to the updated Compendium of Physical Activities. The individuals are listed by their institutional affiliation: Jennifer Hootman and Angela Morgan (University of South Carolina), Mark Richardson (University of Alabama), Devra Hendelman and Patty Freedson (University of Massachusetts), Gregory Welk (lowa State University), Steven Blair (Cooper Institute for Aerobics Research), Vivian Heyward, Lisa Stolarczyk, and Julia Orri (University of New Mexico), and Ava Walker (University of Minnesota).

This work was supported in part by the International Life Sciences Institute Center for Health Promotion (ILSI CHP). The use of trade names and commercial sources in this document is for purposes of identification only and does not imply endorsement by ILSI CHP. In addition, the views expressed herein are those of the individual authors and/or their organizations and do not necessarily reflect those of ILSI CHP.

Dr. Leon is supported in part by the Henry L. Taylor Professorship in Exercise Science and Health Enhancement. Dr. Ainsworth is supported in part by the NIH Women's Health Initiative SIP 22W-U48/CCU 409554-03. Support for the development of the initial Compendium of Physical Activities was provided by grants from the National Heart, Lung, and Blood Institute to Drs. Leon and Jacobs (RFA-86-37561), to Dr. Haskell (HL-362-72), to Dr. Montoye (5-R01-HL-37561), and to Dr. James Sallis (RFA-86-HL-9-P).

Address for correspondence: Barbara E. Ainsworth, Ph.D., MPH, FACSM, Department of Epidemiology and Biostatistics, University of South Carolina, Columbia, SC 29208; E-mail: bainsworth@sph.sc.edu.

- Activities in lean and obese college women (Abstract). *Med. Sci. Sports Exerc.* 31:S142, 1999.
- JONES, D. A., B. E. AINSWORTH, J. B. CROFT, J. R. LIVENGOOD, E. LLOYD, and H. R. YUSUF. Prevalences of moderate physical activity recommended by the Surgeon General's Report in U.S. adults: National Health Interview Survey, 1990. Arch. Family Med. 7:285–289, 1998.
- Jones, D. A., C. D. Kimsey, C. A Macera, and C. M. Fuchs. Characteristics of physical activity among employed adults in selected WHO MONICA sites (Abstract). *Med. Sci. Sports Exerc.* 32:S187, 2000.
- KUCZMARSKI, R. J., M. D. CARROLL, K. M. FLEGAL, and R. P. TROIANO. Varying body mass index cutoff points to describe overweight prevalence among U.S. adults: NHANES III (1988–1994). Obes. Res. 5:542–548, 1997.
- KUCZMARSKI, R. J., K. M. FLEGAL, S. M. CAMPBELL, and C. L. JOHNSON. Increasing prevalence of overweight among U.S. adults: the National Health and Nutrition Examination Surveys 1960– 1991. JAMA 272:205–211, 1994.
- LEE, I-M., C-C. HSIEH, and R. S. PAFFENBARGER, JR. Exercise intensity and longevity in men. JAMA 273:1179–1184, 1995.
- MARGARIA, R., P. CERRETELLI, P. AGHEMO, and G. SASSI. Energy cost of running. J. Appl. Physiol. 18:367–370, 1963.
- Melanson, E. L., P. S. Freedson, R. Webb, S. Jungbluth, and N. Kozlowski. Exercise responses to running and in-line skating at self-selected paces. *Med. Sci. Sports Exerc.* 28:247–250, 1996.
- Montoye, H. J. The energy cost of exercise and competitive sport. In: Nutrition in Sport: Olympic Encyclopaedia of Sports Medicine, Vol. VII, R. J. Maughan (Ed.). Maldea, MA: Blackwell Science Inc., 2000, pp. 53–72.
- MONTOYE, H. J., H. C. G. KEMPER, W. H. M. SARIS, and R. A. WASHBURN. Measuring Physical Activity and Energy Expenditure. Champaign, IL: Human Kinetics Publishers, 1996, pp. 34-41.

- 20. Nieman, D. C. Fitness and Sports Medicine, 2nd Ed. Palo Alto: Bull Publishing Co., 1995, pp. 685-691.
- 21. Noble R. M., and E. T. Howley. The energy requirement of selected tap dance routines. *Res. Q.* 50:438-442, 1979.
- 22. Olson M. S., H. N. Williford, D. L. Blessing, and R. Greathouse. The cardiovascular and metabolic effect of bench stepping exercise stepping in females. *Med. Sci. Sports Exerc.* 23:1311–1318, 1991.
- PATE, R. R., M. PRATT, S. N. BLAIR, et al. Physical activity and public health: a recommendation from the Centers for Disease Control and Prevention and the American College of Sports Medicine. JAMA 273:402-407, 1995.
- PATTERSON R., and S. V. FISHER. Cardiovascular stress of crutch walking. Arch. Phys. Med. Rehabil. 62:257-260, 1981.
- Pereira, M. A., S. J. Fitzgerald, E. W., and Gregg, et al. A collection of physical activity questionnaires for health related research. Med. Sci. Sports Exerc. 29:S1-S205, 1997.
- RICHARDSON, M. T., A. S. LEON, D. R. JACOBS, JR., B. E. AINSWORTH, and R. C. SERFASS. Comprehensive evaluation of the Minnesota Leisure Time Physical Activity Questionnaire. J. Clin. Epidemiol. 47:271–281, 1994.
- 27. SCHMITZ, M. K. H. The Interactive and Independent Associations of Physical Activity, Body Weight, and Blood Lipid Levels. Unpublished Ph. D. Dissertation, University of Minnesota, Minneapolis, MN, 1998.
- 28. SMITH J. F. Energy cost of specific custodial work tasks. Unpublished Doctoral Dissertation, University of Tennessee 1975:.
- STRATH S. J., A. M. SWARTZ, D. R. BASSETT, JR., W. L. O'BRIEN, G. A. KING, and B. E. AINSWORTH. Evaluation of heart rate as a method for estimating moderate intensity physical activity. *Med. Sci. Sports Exerc.* 32(Suppl.):S471-S480, 2000.

- SWARTZ, A. M., S. J. STRATH, D. R. BASSETT, JR., W. L. O'BRIEN, G. A. KING, and B. E. AINSWORTH. Estimation of energy expenditure using CSA, Inc. accelerometer hip and wrist sites. *Med. Sci. Sports Exerc.* 32(Suppl.):S450-S456, 2000.
- TAYLOR H. L., D. R. JACOBS JR., B. SCHUKER, J. KNUDSEN, A. S. LEON, and G. DEBACKER. A questionnaire for the assessment of leisure time physical activities. J. Chronic Dis. 31:741-755, 1978.
- Town G. P., N. Sol, and W. Sinning. The effect of rope skipping rate on energy expenditure of males and females. *Med. Sci. Sports Exerc.* 12:295–298, 1980.
- 33. U. S. DEPARTMENT OF HEALTH AND HUMAN SERVICES. Physical Activity and Health: A Report of the Surgeon General. Atlanta, GA: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, 1996, pp. 29-37.
- 34. U. S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Human Promotion, Division of Nutrition and Physical Activity. Promoting Physical Activity: A Guide for Community Action. Champaign, IL: Human Kinetics, 1999.
- Welk, G. J., S. N. Blair, K. Wood, S. Jones, and R. W. Thompson. A comparative evaluation of three accelerometry-based physical activity monitors. *Med. Sci. Sports Exerc.* 32(Suppl.):S489-S497, 2000
- WILLIAMS, C. D., J. F. SALLIS, K. J. CALFAS, and R. BURKE. Psychosocial and demographic correlates of television viewing. Am. J. Health Promot. 13:207–214, 1999.
- 37. ZENI A. I., M. D. HOFFMAN, and P. S. CLIFFORD. Energy expenditure with indoor exercise machines. *JAMA* 275:1424–1427, 1996.

CODE	METS	SPECIFIC ACTIVITY	EXAMPLES
01009	8.5	bicycling,	bicycling, BMX or mountain
01010	4.0	bicycling,	bicycling, <10 mph, leisure, to work or for pleasure (Taylor Code 115)
01015	8.0	bicycling,	bicycling, general
01020	6.0	bicycling,	bicycling, 10-11.9 mph, leisure, slow, light effort
01030	8.0	bicycling,	bicycling, 12-13.9 mph, leisure, moderate effort
01040	10.0	bicycling,	bicycling, 14-15.9 mph, racing or leisure, fast, vigorous effort
01050	12.0	bicycling,	bicycling, 16-19 mph, racing/not drafting or >19 mph drafting, very fast, racing general
01060	16.0	bicycling,	bicycling, >20 mph, racing, not drafting
01070	5.0	bicycling,	unicycling
02010	7.0	conditioning exercise,	bicycling, stationary, general
02011	3.0	conditioning exercise,	bicycling, stationary, 50 watts, very light effort
02012	5.5	conditioning exercise,	bicycling, stationary, 100 watts, light effort
02013	7.0	conditioning exercise,	bicycling, stationary, 150 watts, moderate effort
02014	10.5	conditioning exercise,	bicycling, stationary, 200 watts, vigorous effort
02015	12.5	conditioning exercise,	bicycling, stationary, 250 watts, very vigorous effort
02020	8.0	conditioning exercise,	calisthenics (e.g. pushups, situps, pullups, jumping jacks), heavy, vigorous effort
02030	3.5	conditioning exercise,	calisthenics, home exercise, light or moderate effort, general (example: back exercises), going up &
			down from floor (Taylor Code 150)
02040	8.0	conditioning exercise,	circuit training, including some aerobic movement with minimal rest, general
02050	6.0	conditioning exercise,	weight lifting (free weight, nautilus or universal-type), power lifting or body building, vigorous effort (Taylor Code 210)
02060	5.5	conditioning exercise,	health club exercise, general (Taylor Code 160)
02065	9.0	conditioning exercise,	stair-treadmill ergometer, general
02070	7.0 .	conditioning exercise,	rowing, stationary ergometer, general
02071	3.5	conditioning exercise,	rowing, stationary, 50 watts, light effort
02072	7.0	conditioning exercise,	rowing, stationary, 100 watts, moderate effort
02073	8.5	conditioning exercise,	rowing, stationary, 150 watts, vigorous effort
02074	12.0	conditioning exercise,	rowing, stationary, 200 watts, very vigorous effort
02080	7.0	conditioning exercise,	ski machine, general
02090	6.0	conditioning exercise,	slimnastics, jazzercise
02100	2.5	conditioning exercise,	stretching, hatha yoga
02101	2.5	conditioning exercise,	mild stretching
02110	6.0	conditioning exercise,	teaching aerobic exercise class
02120	4.0	conditioning exercise,	water aerobics, water calisthenics
02130	3.0	conditioning exercise,	weight lifting (free, nautilus or universal-type), light or moderate effort, light workout, general
02135	1.0	conditioning exercise,	whirlpool, sitting
03010	4.8	dancing,	ballet or modern, twist, jazz, tap, jitterbug
03015	6.5	dancing,	aerobic, general
03016	8.5	dancing,	aerobic, step, with 6 – 8 inch step
03017	10.0	dancing,	aerobic, step, with 10 – 12 inch step
03020	5.0	dancing,	aerobic, low impact
03021	7.0	dancing,	aerobic, high impact
03025	4.5	dancing,	general, Greek, Middle Eastern, hula, flamenco, belly, swing
03030	5.5	dancing,	ballroom, fast (Taylor Code 125)
03031	4.5	dancing,	ballroom, fast (disco, folk, square), line dancing, Irish step dancing, polka, contra, country
03040	3.0	dancing,	ballroom, slow (e.g. waltz, foxtrot, slow dancing), samba, tango, 19th C, mambo, chacha
03050	5.5	dancing,	Anishinaabe Jingle Dancing or other traditional American Indian dancing
04001	3.0	fishing and hunting,	fishing, general

Figure 1—Appendix 1. Updated Compendium of Physical Activities.

CODE	METS	SPECIFIC ACTIVITY	EXAMPLES
04010	4.0	fishing and hunting,	digging worms, with shovel
04020	4.0	fishing and hunting,	fishing from river bank and walking
04030	2.5	fishing and hunting,	fishing from boat, sitting
04040	3.5	fishing and hunting,	fishing from river bank, standing (Taylor Code 660)
04050	6.0	fishing and hunting,	fishing in stream, in waders (Taylor Code 670)
04060	2.0	fishing and hunting,	fishing, ice, sitting
04070	2.5	fishing and hunting,	hunting, bow and arrow or crossbow
04080	6.0	fishing and hunting,	hunting, deer, elk, large game (Taylor Code 170)
04090	2.5	fishing and hunting,	hunting, duck, wading
04100	5.0	fishing and hunting,	hunting, general
04110	6.0	fishing and hunting,	hunting, pheasants or grouse (Taylor Code 680)
04120	5.0	fishing and hunting,	hunting, rabbit, squirrel, prairie chick, raccoon, small game (Taylor Code 690)
04130	2.5	fishing and hunting,	pistol shooting or trap shooting, standing
05010	3.3	home activities,	carpet sweeping, sweeping floors
05020	3.0	home activities,	cleaning, heavy or major (e.g. wash car, wash windows, clean garage), vigorous effort
05021	3.5	home activities.	mopping
05025	2.5	home activities.	multiple household tasks all at once, light effort
05026	3.5	home activities,	multiple household tasks all at once, moderate effort
05027	4.0	home activities,	multiple household tasks all at once, vigorous effort
05030	3.0	home activities,	cleaning, house or cabin, general
05040	2.5	home activities,	cleaning, light (dusting, straightening up, changing linen, carrying out trash)
05041	2.3	home activities,	wash dishes - standing or in general (not broken into stand/walk components)
05042	2.5	home activities,	wash dishes; clearing dishes from table – walking
05043	3.5	home activities,	vacuuming
05045	6.0	home activities,	butchering animals
05050	2.0	home activities,	cooking or food preparation - standing or sitting or in general (not broken into stand/walk components), manual
			appliances
05051	2.5	home activities,	serving food, setting table - implied walking or standing
05052	2.5	home activities,	cooking or food preparation - walking
05053	2.5	home activities,	feeding animals
05055	2.5	home activities,	putting away groceries (e.g. carrying groceries, shopping without a grocery cart), carrying packages
05056	7.5	home activities,	carrying groceries upstairs
05057	3.0	home activities,	cooking Indian bread on an outside stove
05060	2.3	home activities,	food shopping with or without a grocery cart, standing or walking
05065	2.3	home activities,	non-food shopping, standing or walking
05070	2.3	home activities,	ironing
05080	1.5	home activities,	sitting - knitting, sewing, lt. wrapping (presents)
05090	2.0	home activities,	implied standing - laundry, fold or hang clothes, put clothes in washer or dryer, packing suitcase
05095	2.3	home activities,	implied walking - putting away clothes, gathering clothes to pack, putting away laundry
05100		home activities,	making bed
05110	5.0	home activities,	maple syruping/sugar bushing (including carrying buckets, carrying wood)
05120	6.0	home activities,	moving furniture, household items, carrying boxes
05130	3.8	home activities,	scrubbing floors, on hands and knees, scrubbing bathroom, bathtub
05140		home activities,	sweeping garage, sidewalk or outside of house
05146		home activities,	standing - packing/unpacking boxes, occasional lifting of household items light - moderate effort
05147		home activities,	implied walking - putting away household items - moderate effort
05148	2.5	home activities,	watering plants
05149	2.5	home activities,	building a fire inside
05150		home activities,	moving household items upstairs, carrying boxes or furniture
05160	2.0	home activities,	standing - light (pump gas, change light bulb, etc.)
05165	3.0	home activities,	walking - light, non-cleaning (readying to leave, shut/lock doors, close windows, etc.)

Figure 1—Continued.

CODE	METS	SPECIFIC ACTIVITY	EXAMPLES	
05170	2.5	home activities,	sitting - playing with child(ren) - light, only active periods	
05171	2.8	home activities,	standing - playing with child(ren) - light, only active periods	
05175	4.0	home activities,	walk/run - playing with child(ren) - moderate, only active periods	
05180	5.0	home activities,	walk/run - playing with child(ren) - vigorous, only active periods	
05181	3.0	home activities,	carrying small children	
05185	2.5	home activities,	child care: sitting/kneeling - dressing, bathing, grooming, feeding, occasional lifting of child-light effort, general	
05186	3.0	home activities,	child care: standing - dressing, bathing, grooming, feeding, occasional lifting of child-light effort	
05187	4.0	home activities,	elder care, disabled adult, only active periods	
05188	1.5	home activities,	reclining with baby	
05190	2.5	home activities,	sit, play ing with animals, light, only active periods	
05191	2.8	home activities,	stand, playing with animals, light, only active periods	
05192	2.8	home activities,	walk/run, playing with animals, light, only active periods	
05193	4.0	home activities,	walk/run, playing with animals, moderate, only active periods	
05194	5.0	home activities,	walk/run, playing with animals, vigorous, only active periods	
05195	3.5	home activities,	standing - bathing dog	
06010	3.0	home repair,	airplane repair	
06020	4.0	home repair,	automobile body work	
06030		home repair,	automobile repair	
06040	3.0	home repair,	carpentry, general, workshop (Taylor Code 620)	
06050	6.0	home repair,	carpentry, outside house, installing rain gutters, building a fence, (Taylor Code 640)	
06060	4.5	home repair,	carpentry, finishing or refinishing cabinets or furniture	
06070	7.5	home repair,	carpentry, sawing hardwood	
06080	5.0	home repair,	caulking, chinking log cabin	
06090	4.5	home repair,	caulking, except log cabin	
06100	5.0	home repair,	cleaning gutters	
06110	5.0	home repair,	excavating garage	
06120	5.0	home repair,	hanging storm windows	
06130	4.5	home repair,	laying or removing carpet	
06140	4.5	home repair,	laying tile or linoleum, repairing appliances	
06150	5.0	home repair,	painting, outside home (Taylor Code 650)	
06160	3.0	home repair,	painting, papering, plastering, scraping, inside house, hanging sheet rock, remodeling	
06165	4.5	home repair,	painting, (Taylor Code 630)	
06170	3.0	home repair,	put on and removal of tarp - sailboat	
06180	6.0	home repair,	roofing	
06190	4.5	home repair,	sanding floors with a power sander	
06200	4.5	home repair,	scraping and painting sailboat or powerboat	
06210	5.0	home repair,	spreading dirt with a shovel	
06220	4.5	home repair,	washing and waxing hull of sailboat, car, powerboat, airplane	
06230	4.5	home repair,	washing fence, painting fence	
06240	3.0	home repair,	wiring, plumbing	
07010	1.0	inactivity, quiet	lying quietly and watching television	
07011	1.0	inactivity, quiet	lying quietly, doing nothing, lying in bed awake, listening to music (not talking or reading)	
07011	1.0	inactivity, quiet	sitting quietly and watching television	
07020	1.0	inactivity, quiet		
07021		• · A	sitting quietly, sitting smoking, listening to music (not talking or reading), watching a movie in a theater sleeping	
07030	0.9	inactivity, quiet	steeping standing quietly (standing in a line)	
	1.2	inactivity, quiet		
07050	1.0	inactivity, light	reclining - writing	
07060	1.0	inactivity, light	reclining - talking or talking on phone	
07070	1.0	inactivity, light	reclining - reading	
07075	1.0	inactivity, light	meditating	
08010	5.0	lawn and garden,	carrying, loading or stacking wood, loading/unloading or carrying lumber	

Figure 1—Continued.

		SPECIFIC ACTIVITY	EXAMPLES
08020	6.0	lawn and garden,	chopping wood, splitting logs
08030	5.0	lawn and garden,	clearing land, hauling branches, wheelbarrow chores
08040	5.0	lawn and garden,	digging sandbox
08050	5.0	lawn and garden,	digging, spading, filling garden, composting, (Taylor Code 590)
08060	6.0	lawn and garden,	gardening with heavy power tools, tilling a garden, chain saw
08080	5.0	lawn and garden,	laying crushed rock
08090	5.0	lawn and garden,	laying sod
08095	5.5	lawn and garden,	mowing lawn, general
08100	2.5	lawn and garden,	mowing lawn, riding mower (Taylor Code 550)
08110	6.0	lawn and garden,	mowing lawn, walk, hand mower (Taylor Code 570)
08120	5.5	lawn and garden,	mowing lawn, walk, power mower
08125	4.5	lawn and garden,	mowing lawn, power mower (Taylor Code 590)
08130	4.5	lawn and garden,	operating snow blower, walking
08140	4.5	lawn and garden,	planting seedlings, shrubs
08150	4.5	lawn and garden,	planting trees
08160	4.3	lawn and garden,	raking lawn
08165	4.0	lawn and garden,	raking lawn (Taylor Code 600)
08170	4.0	lawn and garden,	raking roof with snow rake
08180	3.0	lawn and garden,	riding snow blower
08190	4.0	lawn and garden,	sacking grass, leaves
08200	6.0	lawn and garden,	shoveling snow, by hand (Taylor Code 610)
08210	4.5	lawn and garden,	trimming shrubs or trees, manual cutter
08215	3.5	lawn and garden,	trimming shrubs or trees, power cutter, using leaf blower, edger
08220	2.5	lawn and garden,	walking, applying fertilizer or seeding a lawn
08230	1.5	lawn and garden,	watering lawn or garden, standing or walking
08240	4.5	lawn and garden,	weeding, cultivating garden (Taylor Code 580)
08245	4.0	lawn and garden,	gardening, general
08246	3.0	lawn and garden,	picking fruit off trees, picking fruits/vegetables, moderate effort
08250	3.0	lawn and garden,	implied walking/standing - picking up yard, light, picking flowers or vegetables
08251	3.0	lawn and garden,	walking, gathering gardening tools
09010	1.5	miscellaneous,	sitting - card playing, playing board games
09020	2.3	miscellaneous,	standing - drawing (writing), casino gambling, duplicating machine
09030	1.3	miscellaneous,	sitting - reading, book, newspaper, etc.
09040	1.8	miscellaneous,	sitting - writing, desk work, typing
09050	1.8	miscellaneous,	standing - talking or talking on the phone
09055	1.5	miscellaneous,	sitting - talking or talking on the phone
09060	1.8	miscellaneous,	sitting - studying, general, including reading and/or writing
09065	1.8	miscellaneous,	sitting - in class, general, including note-taking or class discussion
09070	1.8	miscellaneous,	standing - reading
09071	2.0	miscellaneous,	standing - miscellaneous
09075	1.5	miscellaneous,	sitting - arts and crafts, light effort
09080	2.0	miscellaneous,	sitting - arts and crafts, moderate effort
09085	1.8	miscellaneous,	standing - arts and crafts, light effort
09090	3.0	miscellaneous,	standing - arts and crafts, moderate effort
09095	3.5	miscellaneous,	standing - arts and crafts, vigorous effort
09100	1.5	miscellaneous,	retreat/family reunion activities involving sitting, relaxing, talking, eating
09105	2.0	miscellaneous,	touring/traveling/vacation involving walking and riding
09110	2.5	miscellaneous,	camping involving standing, walking, sitting, light-to-moderate effort
09115	1.5	miscellaneous,	sitting at a sporting event, spectator
10010	1.8	music playing,	accordion
10020	2.0	music playing,	cello

Figure 1—Continued.

(CODE	METS	SPECIFIC ACTIVITY	EXAMPLES	
	10030	2.5	music playing,	conducting	
	10040	4.0	music playing,	drums	
	10050	2.0	music playing,	flute (sitting)	
	10060	2.0	music playing,	horn	
	10070	2.5	music playing,	piano or organ	
	10080	3.5	music playing,	trombone	
	10090	2.5	music playing,	trumpet	
	10100	2.5	music playing,	violin	
	10110	2.0	music playing,	woodwind	
	10120	2.0	music playing,	guitar, classical, folk (sitting)	
	10125	3.0	music playing,	guitar, rock and roll band (standing)	
	10130	4.0	music playing,	marching band, playing an instrument, baton twirling (walking)	
	10135	3.5	music playing,	marching band, drum major (walking)	
	11010	4.0	occupation,	bakery, general, moderate effort	
	11015	2.5	occupation,	bakery, light effort	
	11020	2.3	occupation,	bookbinding	
	1030	6.0	occupation,	building road (including hauling debris, driving heavy machinery)	
	11035	2.0	occupation,	building road, directing traffic (standing)	
	1040	3.5	occupation,	carpentry, general	
	11050	8.0	occupation,	carrying heavy loads, such as bricks	
	11060	8.0	occupation,	carrying moderate loads up stairs, moving boxes (16-40 pounds)	
	11070	2.5	occupation,	chambermaid, making bed (nursing)	
	11080	6.5	occupation,	coal mining, drilling coal, rock	
	1090	6.5	occupation,	coal mining, erecting supports	
	11100	6.0	occupation,	coal mining, general	
	11110	7.0	occupation,	coal mining, shoveling coal	
	11120	5.5	occupation,	construction, outside, remodeling	
	11121	3.0	occupation,	custodial work - buffing the floor with electric buffer	
	11122	2.5	occupation,	custodial work - cleaning sink and toilet, light effort	
	11123	2.5	occupation,	custodial work - dusting, light effort	
	11124	4.0	occupation,	custodial work – feathering arena floor, moderate effort	
	11125	3.5	occupation,	custodial work - general cleaning, moderate effort	
	11126	3.5	occupation,	custodial work - mopping, moderate effort	
	11127	3.0	occupation,	custodial work - take out trash, moderate effort	
	11128	2.5	occupation,	custodial work - vacuuming, light effort	
	11129	3.0	occupation,	custodial work - vacuuming, moderate effort	
	11130	3.5	occupation,	electrical work, plumbing	
	1140	8.0	occupation,	farming, baling hay, cleaning barn, poultry work, vigorous effort	
	1150	3.5	occupation,	farming, chasing cattle, non-strenuous (walking), moderate effort	
-	11151	4.0	occupation,	farming, chasing cattle or other livestock on horseback, moderate effort	
1	11152	2.0	occupation,	farming, chasing cattle or other livestock, driving, light effort	
1	1160	2.5	occupation,	farming, driving harvester, cutting hay, irrigation work	
1	1170	2.5	occupation,	farming, driving tractor	
1	1180	4.0	occupation,	farming, feeding small animals	
1	1190	4.5	occupation,	farming, feeding cattle, horses	
1	1191	4.5	occupation,	farming, hauling water for animals, general hauling water	
1	1192	6.0	occupation,	farming, taking care of animals (grooming, brushing, shearing sheep, assisting with birthing, medical care,	
				branding)	
	1200	8.0	occupation,	farming, forking straw bales, cleaning corral or barn, vigorous effort	
	1210	3.0	occupation,	farming, milking by hand, moderate effort	
	1220	1.5	occupation,	farming, milking by machine, light effort	

Figure 1—Continued.

CODE	METS	SPECIFIC ACTIVITY	EXAMPLES
11230	5.5	occupation,	farming, shoveling grain, moderate effort
11240	12.0	occupation,	fire fighter, general
11245	11.0	occupation,	fire fighter, climbing ladder with full gear
11246	8.0	occupation,	fire fighter, hauling hoses on ground
11250	17.0	occupation,	forestry, ax chopping, fast
11260	5.0	occupation,	forestry, ax chopping, slow
11270	7.0	occupation,	forestry, barking trees
11280	11.0	occupation,	forestry, carrying logs
11290	8.0	occupation,	forestry, felling trees
11300	8.0	occupation,	forestry, general
11310	5.0	occupation,	forestry, hoeing
11320	6.0	occupation,	forestry, planting by hand
11330	7.0	occupation,	forestry, sawing by hand
11340	4.5	occupation,	forestry, sawing, power
11350	9.0	occupation,	forestry, trimming trees
11360	4.0	occupation,	forestry, weeding
11370	4.5	occupation,	furriery
11380	6.0	occupation,	horse grooming
11390	8.0	occupation,	horse racing, galloping
11400	6.5	occupation,	horse racing, trotting
11410	2.6	occupation,	horse racing, walking
11420	3.5	occupation,	locksmith
11430	2.5	occupation,	machine tooling, machining, working sheet metal
11440	3.0	occupation,	machine tooling, operating lathe
11450	5.0	occupation,	machine tooling, operating punch press
11460	4.0	occupation,	machine tooling, tapping and drilling
11470	3.0	occupation,	machine tooling, welding
11480	7.0	occupation,	masonry, concrete
11485	4.0	occupation,	masseur, masseuse (standing)
11490	7.5	occupation,	moving, pushing heavy objects, 75 lbs or more (desks, moving van work)
11495	12.0	occupation,	skindiving or SCUBA diving as a frogman (Navy Seal)
11500	2.5	occupation,	operating heavy duty equipment/automated, not driving
11510	4.5	occupation,	orange grove work
11520	2.3	occupation,	printing (standing)
11525	2.5	occupation,	police, directing traffic (standing)
11526	2.0	occupation,	police, driving a squad car (sitting)
11527	1.3	occupation,	police, riding in a squad car (sitting)
11528	4.0	occupation,	police, making an arrest (standing)
11530	2.5	occupation.	shoe repair, general
11540	8.5	occupation,	shoveling, digging ditches
11550	9.0	occupation,	shoveling, heavy (more than 16 pounds/minute)
11560	6.0	occupation,	shoveling, light (less than 10 pounds/minute)
11570	7.0	occupation,	shoveling, moderate (10 to 15 pounds/minute)
11580	1.5	occupation,	sitting - light office work, general (chemistry lab work, light use of hand tools, watch repair or micro-assembly, light
		- '	assembly/repair), sitting, reading, driving at work
11585	1.5	occupation,	sitting - meetings, general, and/or with talking involved, eatting at a business meeting
11590	2.5	occupation,	sitting; moderate (heavy levers, riding mower/forklift, crane operation), teaching stretching or yoga
11600	2.3	occupation,	standing; light (bartending, store clerk, assembling, filing, duplicating, putting up a Christmas tree), standing and talking at
		• •	work, changing clothes when teaching physical education
11610	3.0	occupation,	standing; light/moderate (assemble/repair heavy parts, welding, stocking, auto repair, pack boxes for moving, etc.),
		-	patient care (as in nursing)

Figure 1—Continued.

CODE	METS	SPECIFIC ACTIVITY	EXAMPLES
11615	4.0	occupation,	lifting items continuously, 10 – 20 lbs, with limited walking or resting
11620	3.5	occupation,	standing; moderate (assembling at fast rate, intermittent, lifting 50 lbs, hitch/twisting ropes)
11630	4.0	occupation,	standing; moderate/heavy (lifting more than 50 lbs, masonry, painting, paper hanging)
11640	5.0	occupation,	steel mill, fettling
11650	5.5	occupation,	steel mill, forging
11660	8.0	occupation,	steel mill, hand rolling
11670	8.0	occupation,	steel mill, merchant mill rolling
11680	11.0	occupation,	steel mill, removing slag
11690	7.5	occupation,	steel mill, tending furnace
11700	5.5	occupation,	steel mill, tipping molds
11710	8.0	occupation,	steel mill, working in general
11720	2.5	occupation,	tailoring, cutting
11730	2.5	occupation,	tailoring, general
11740	2.0	occupation,	tailoring, hand sewing
11750	2.5	occupation,	tailoring, machine sewing
11760	4.0	occupation,	tailoring, pressing
11765	3.5	occupation,	tailoring, weaving
11766	6.5	occupation,	truck driving, loading and unloading truck (standing)
11770	1.5	occupation,	typing, electric, manual or computer
11780	6.0	occupation,	using heavy power tools such as pneumatic tools (jackhammers, drills, etc.)
11790	8.0	occupation,	using heavy tools (not power) such as shovel, pick, tunnel bar, spade
11791	2.0	occupation,	walking on job, less than 2.0 mph (in office or lab area), very slow
11792	3.3	occupation,	walking on job, 3.0 mph, in office, moderate speed, not carrying anything
11793	3.8	occupation,	walking on job, 3.5 mph, in office, brisk speed, not carrying anything
11795	3.0	occupation,	walking, 2.5 mph, slowly and carrying light objects less than 25 pounds
11796	3.0	occupation,	walking, gathering things at work, ready to leave
11800	4.0	occupation,	walking, 3.0 mph, moderately and carrying light objects less than 25 lbs
11805	4.0	occupation,	walking, pushing a wheelchair
11810	4.5	occupation,	walking, 3.5 mph, briskly and carrying objects less than 25 pounds
11820	5.0	occupation,	walking or walk downstairs or standing, carrying objects about 25 to 49 pounds
11830	6.5	occupation,	walking or walk downstairs or standing, carrying objects about 50 to 74 pounds
11840	7.5	occupation,	walking or walk downstairs or standing, carrying objects about 75 to 99 pounds
11850	8.5	occupation,	walking or walk downstairs or standing, carrying objects about 100 pounds or over
11870	3.0	occupation,	working in scene shop, theater actor, backstage employee
11875	4.0	occupation,	teach physical education, exercise, sports classes (non-sport play)
11876	6.5	occupation,	teach physical education, exercise, sports classes (participate in the class)
12010	6.0	running,	jog/walk combination (jogging component of less than 10 minutes) (Taylor Code 180)
12020	7.0	running,	jogging, general
12025	8.0	running,	jogging, in place
12023	4.5	running	jogging on a mini-tramp
	8.0	running,	running, 5 mph (12 min/mile)
12030		<u>.</u>	running, 5.2 mph (11.5 min/mile)
12040	9.0	running,	running, 6 mph (10 min/mile)
12050	10.0	running,	running, 6.7 mph (9 min/mile)
12060	11.0	running,	running, 7 mph (8.5 min/mile)
12070	11.5	running,	running, 7.5 mph (8.5 min/mile)
12080	12.5	running,	running, 8 mph (8 min/mile)
12090	13.5	running,	running, 8 mph (7.3 min/mile)
12100	14.0	running,	running, 8.0 mph (7 min/mile)
12110	15.0	running,	
12120	16.0	running,	running, 10 mph (6 min/mile)
12130	18.0	running,	running, 10.9 mph (5.5 min/mile)

Figure 1—Continued.

CODE	METS	SPECIFIC ACTIVITY	EXAMPLES
12140	9.0	running,	running, cross country
12150	8.0	running,	running (Taylor Code 200)
12170	15.0	running,	running, stairs, up
12180	10.0	running,	running, on a track, team practice
12190	8.0	running,	running, training, pushing a wheelchair
13000	2.0	self care,	standing - getting ready for bed, in general
13009	1.0	self care,	sitting on toilet
13010	1.5	self care,	bathing (sitting)
13020	2.0	self care,	dressing, undressing (standing or sitting)
13030	1.5	self care,	eating (sitting)
13035	2.0	self care,	talking and eating or eating only (standing)
13036	1.0	self care,	taking medication, sitting or standing
13040	2.0	self care,	grooming (washing, shaving, brushing teeth, urinating, washing hands, putting on make-up), sitting or standing
13045	2.5	self care,	hairstyling
13046	1.0	self care,	having hair or nails done by someone else, sitting
13050	2.0	self care,	showering, toweling off (standing)
14010	1.5	sexual activity,	active, vigorous effort
14020	1.3	sexual activity,	general, moderate effort
14030	1.0	sexual activity,	passive, light effort, kissing, hugging
15010	3.5	sports,	archery (non-hunting)
15020	7.0	sports,	badminton, competitive (Taylor Code 450)
15030	4.5	sports,	badminton, social singles and doubles, general
15040	8.0	sports,	basketball, game (Taylor Code 490)
15050	6.0	sports,	basketball, non-game, general (Taylor Code 480)
15060	7.0	sports,	basketball, officiating (Taylor Code 500)
15070	4.5	sports,	basketball, shooting baskets
15075	6.5	sports,	basketball, wheelchair
15080	2.5	sports,	billiards
15090	3.0	sports,	bowling (Taylor Code 390)
15100	12.0	sports,	boxing, in ring, general
15110	6.0	sports,	boxing, punching bag
15120	9.0	sports,	boxing, sparring
15130	7.0	sports,	broombail
15135	5.0	sports,	children's games (hopscotch, 4-square, dodge ball, playground apparatus, t-ball, tetherball, marbles, jacks, acrace
		op or to,	games)
15140	4.0	sports,	coaching: football, soccer, basketball, baseball, swimming, etc.
15150	5.0	sports,	cricket (batting, bowling)
15160	2.5	sports,	croquet
15170	4.0	sports,	curling
15180	2.5	sports,	darts, wall or lawn
15190		sports,	drag racing, pushing or driving a car
15200	6.0	sports,	fencing
15210	9.0	sports,	football, competitive
15230	8.0	sports,	football, touch, flag, general (Taylor Code 510)
15235	2.5	sports,	football or baseball, playing catch
15240	3.0	sports,	frisbee playing, general
15250	8.0	sports,	frisbee, ultimate
15255	4.5	sports,	golf, general
15265	4.5	sports,	golf, walking and carrying clubs (See footnote at end of the Compendium)
15270	3.0	sports,	golf, miniature, driving range
15285	4.3	sports,	golf, walking and pulling clubs (See footnote at end of the Compendium)
		~F ~	gon, maning and paning class (see routiste at old of the competition)

Figure 1—Continued.

15300 3.5 sports,	C	ODE	METS	SPECIFIC ACTIVITY	EXAMPLES
15300 4.0 sports, sports, handball, general (Taylor Code 520)					golf, using power cart (Taylor Code 070)
15310 4.0 sports, hacky sack hardball, general (Taylor Code 520)	15	300	4.0	•	gymnastics, general
15330	15	5310	4.0	•	hacky sack
15340 3.5 sports, hand gliding 15350 8.0 sports, hockey, field 15360 8.0 sports, hockey, field 15370 4.0 sports, horseback riding, general 15380 3.5 sports, horseback riding, saddling horse, grooming horse 15390 6.5 sports, horseback riding, trotting 15400 2.5 sports, horseback riding, walking 15410 3.0 sports, horseback riding, walking 15420 12.0 sports, jugling 15430 10.0 sports, jugling 15440 4.0 sports, jugling 15450 7.0 sports, jugling 15460 8.0 sports, jugling 15470 4.0 sports, jugling 15480 9.0 sports, motor-cross 15480 9.0 sports, motor-cross 15490 10.0 sports, paddleball, competitive 15500 6.0 sports, paddleball, competitive 15500 6.0 sports, paddleball, competitive 15530 7.0 sports, racquetball, casual, general (Taylor Code 460) 15530 7.0 sports, racquetball, casual, general (Taylor Code 470) 15530 10.0 sports, rock climbing, aspending rock 15550 10.0 sports, rock climbing, rappelling 15550 10.0 sports, rock climbing, rappelling 15550 10.0 sports, rock climbing, rappelling 15550 10.0 sports, shuffleboard, lawn bowling 15580 5.0 sports, skatiesoarding 15600 3.5 sports, sports, skatiesoarding 15600 3.5 sports, sports, skatiesoarding 15600 10.0 sports, shuffleboard, lawn bowling 15600 10.0 sports, sports, skatiesoarding 15600 10.0 sports, sports, softball of ricating 15600 10.0 sports, sports, softball of ricating 15600 10.0 sports, sports, softball of paseball, fast or slow pitch, general (Taylor Code 440) 15600 10.0 sports, softball, pitching 15600 10.0 sports, softball, pitching 15600 10.0 sports, softball, pitching 15600 10.0 sports, softsall of reading 15600 10.0 sports, softsall of reading 15600 10.0	15	5320	12.0	sports,	handball, general (Taylor Code 520)
15350	15	330	8.0	=	handball, team
15350 8.0 sports, bockey, field	15	5340	3.5		hand gliding
15360 8.0 sports, hockey, ice 15370 4.0 sports, horseback riding, general 15380 3.5 sports, horseback riding, saddling horse, grooming horse 15390 6.5 sports, horseback riding, audking 15400 2.5 sports, horseback riding, quoits 15410 3.0 sports, horseback riding, quoits 15420 12.0 sports, jai alai 15430 10.0 sports, juggling 15440 4.0 sports, juggling 15450 7.0 sports, juggling 15460 8.0 sports, diacrosse 15470 4.0 sports, motor-cross 15480 9.0 sports, motor-cross 15490 10.0 sports, paddleball, competitive 15500 6.0 sports, paddleball, casual, general (Taylor Code 460) 15510 8.0 sports, racquetball, casual, general (Taylor Code 470) 15530 7.0 sports, racquetball, casual, general (Taylor Code 470) 15530 7.0 sports, racquetball, casual, general (Taylor Code 470) 15535 11.0 sports, rock climbing, aspectalling 15550 12.0 sports, rope jumping, fast 15551 10.0 sports, rope jumping, fast 15552 8.0 sports, rope jumping, fast 15553 7.0 sports, rope jumping, slow 15550 7.0 sports, skateboarding 15550 7.0 sports, skateboarding 15560 10.0 sports, sports, skateboarding 15570 3.0 sports, sports, skateboarding 15580 5.0 sports, sports, skateboarding 15600 10.0 sports, sports, skateboarding 15601 7.0 sports, sports, skateboarding 15601 7.0 sports, sports, softball officiating 15602 5.0 sports, sports, softball officiating 15603 6.0 sports, softball officiating 15604 6.0 sports, softball officiating 15605 10.0 sports, softball officiating 15606 6.0 sports, softball officiating 15607 7.0 sports, softball officiating 15608 6.0 sports, softball officiating 15609 8.0 sports, table tennis, ping pong (Taylor Code 440) 15600 8.0 spo	15	3350	8.0	-	hockey, field
15380 3.5 sports, horseback riding, saddling horse, grooming horse	15	5360	8.0	•	hockey, ice
15390 6.5 sports, sports, horseback riding, walking 15400 2.5 sports, horseback riding, walking 15420 12.0 sports, jai alai 15430 10.0 sports, judo, jujitsu, karate, kick boxing, tae kwan do 15440 4.0 sports, juggling 15450 7.0 sports, kickball 15450 8.0 sports, kickball 15470 4.0 sports, motor-cross 15480 9.0 sports, paddleball, competitive 15590 6.0 sports, paddleball, casual, general (Taylor Code 460) 15510 8.0 sports, paddleball, casual, general (Taylor Code 470) 15510 8.0 sports, racquetball, casual, general (Taylor Code 470) 15530 7.0 sports, racquetball, casual, general (Taylor Code 470) 15530 7.0 sports, racquetball, casual, general (Taylor Code 470) 15550 12.0 sports, rock climbing, ascending rock rock climbing, ascending rock rock climbing, steending rock rock climbing, steending rock rock climbing, steending rock rock climbing, steending rock rope jumping, slow rugby	15	5370	4.0	-	
15400 2.5 sports, horseback riding, walking sports, sports, horseshoe pitching, quoits sports, spo	15	5380	3.5	sports,	horseback riding, saddling horse, grooming horse
15410 3.0 sports, sports, jai alai 15420 12.0 sports, jai alai 15430 10.0 sports, jai alai 15440 4.0 sports, judo, jujitsu, karate, kick boxing, tae kwan do 15440 4.0 sports, kickball 15450 7.0 sports, kickball 15460 8.0 sports, kickball 15470 4.0 sports, motor-cross 15480 9.0 sports, paddleball, competitive 15590 6.0 sports, paddleball, casual, general (Taylor Code 460) 15510 8.0 sports, paddleball, casual, general (Taylor Code 460) 15530 7.0 sports, racquetball, casual, general (Taylor Code 470) 15530 7.0 sports, racquetball, casual, general (Taylor Code 470) 15530 11.0 sports, racquetball, casual, general (Taylor Code 470) 15551 10.0 sports, rock climbing, ascending rock 15550 12.0 sports, rock climbing, ascending rock 15551 10.0 sports, rock climbing, aspelling 15552 8.0 sports, rope jumping, fast 15553 10.0 sports, rope jumping, slow 15554 8.0 sports, rope jumping, slow 15555 8.0 sports, rugby 15550 10.0 sports, sports, skateboarding 15570 3.0 sports, skateboarding 15580 5.0 sports, skateboarding 15590 7.0 sports, skateboarding 15600 3.5 sports, skateboarding 15600 3.5 sports, skateboarding 15600 5.0 sports, skateboarding 15600 5.0 sports, skateboarding 15600 5.0 sports, skateboarding 15600 5.0 sports, skateboarding 15600 6.0 sports, ska	15	5390	6.5	-	horseback riding, trotting
15420 12.0 sports, jai alai judo, jujitsu, karate, kick boxing, tae kwan do judo, judo, jujitsu, karate, kick boxing, tae kwan do judo, judo	15	5400	2.5	sports,	horseback riding, walking
15430 10.0 sports, judo, jujitsu, karate, kick boxing, tae kwan do 15440 4.0 sports, juggling 15450 7.0 sports, kickball 15460 8.0 sports, kickball 15460 8.0 sports, motor-cross motor-cross 15470 4.0 sports, paddleball, competitive 15490 10.0 sports, paddleball, competitive 15500 6.0 sports, paddleball, casual, general (Taylor Code 460) 15510 8.0 sports, polo	15	5410	3.0	sports,	horseshoe pitching, quoits
15440 4.0 sports, juggling kickball 15450 7.0 sports, kickball 15450 7.0 sports, kickball 15460 8.0 sports, sports, motor-cross 15470 4.0 sports, motor-cross 15480 9.0 sports, paddleball, competitive 15500 6.0 sports, paddleball, casual, general (Taylor Code 460) 15510 8.0 sports, paddleball, casual, general (Taylor Code 460) 15510 8.0 sports, paddleball, casual, general (Taylor Code 470) 15530 7.0 sports, racquetball, casual, general (Taylor Code 470) 15533 11.0 sports, racquetball, casual, general (Taylor Code 470) 15535 11.0 sports, racquetball, casual, general (Taylor Code 470) 15535 11.0 sports, rock climbing, ascending rock rock climbing, rappelling rock rock climbing, rappelling rock rock climbing, ascending rock rock climbing, rappelling rock rope jumping, fast rope jumping, fast rope jumping, slow rope j	15	5420	12.0	sports,	jai alai
15450 7.0 sports, kickball 15460 8.0 sports, sports, lacrosse lacrosse 15470 4.0 sports, sports, motor-cross 15480 9.0 sports, sports, paddleball, competitive 15590 6.0 sports, paddleball, casual, general (Taylor Code 460) 15510 8.0 sports, paddleball, casual, general (Taylor Code 460) 15520 10.0 sports, racquetball, casual, general (Taylor Code 470) 15535 11.0 sports, racquetball, casual, general (Taylor Code 470) 15535 11.0 sports, racquetball, casual, general (Taylor Code 470) 15540 8.0 sports, racquetball, casual, general (Taylor Code 470) 15551 10.0 sports, rock climbing, ascending rock rock	15	5430	10.0	sports,	judo, jujitsu, karate, kick boxing, tae kwan do
15460	15	5440	4.0	sports,	juggling
15470	15	5450	7.0	sports,	kickball
15480 9.0 sports, paddleball, competitive polo	15	5460	8.0	sports,	lacrosse
15490 10.0 sports, paddleball, competitive paddleball, casual, general (Taylor Code 460) 15510 8.0 sports, paddleball, casual, general (Taylor Code 460) 15510 8.0 sports, paddleball, casual, general (Taylor Code 470) 15520 10.0 sports, racquetball, casual, general (Taylor Code 470) 15535 11.0 sports, rock climbing, ascending rock 15540 8.0 sports, rock climbing, rappelling rope jumping, fast rope jumping, fast rope jumping, slow rope jumping, slow rugby 15551 10.0 sports, rope jumping, slow rugby 15570 3.0 sports, rugby shuffleboard, lawn bowling skateboarding ska	15	5470	4.0	sports,	motor-cross
15500 6.0 sports, sports, paddleball, casual, general (Taylor Code 460) 15510 8.0 sports, sports, polo 15520 10.0 sports, racquetball, casual, general (Taylor Code 470) 15535 11.0 sports, rock climbing, ascending rock 15540 8.0 sports, rock climbing, ascending rock 15551 10.0 sports, rope jumping, fast 15552 8.0 sports, rope jumping, moderate, general 15550 10.0 sports, rope jumping, slow 15550 3.0 sports, rope jumping, slow 15570 3.0 sports, rugby 15580 5.0 sports, skateboarding 15590 7.0 sports, skating, roller (Taylor Code 360) 15591 12.5 sports, skating, roller (Taylor Code 360) 15600 3.5 sports, sky diving 15601 7.0 sports, soccer, competitive 15610 7.0 sports, soccer, competitive 15620 5.0 sports, softball or baseball, fast or slow pitch, general (Taylor Code 440) 15630 4.0 sports, softball, pitching 15660 4.0 sports, softball, pitching 15670 4.0 sports, table tennis, ping pong (Taylor Code 410) 15670 4.0 sports, table tennis, general 15680 5.0 sports, table tennis, general 15680 5.0 sports, tennis, general 15680 5.0 sports, tennis, general 15680 5.0 sports, tennis, singles (Taylor Code 420) 15685 5.0 sports, tennis, singles (Taylor Code 420) 15690 8.0 sports, tennis, singles (Taylor Code 420) 15710 4.0 sports, tennis, singles (Taylor Code 420) 15710 5770 5775,	15	5480	9.0	sports,	
15510 8.0 sports, sports racquetball, competitive	15	5490	10.0	sports,	
15520 10.0 sports, racquetball, competitive 15530 7.0 sports, racquetball, casual, general (Taylor Code 470) 15535 11.0 sports, rock climbing, ascending rock 15540 8.0 sports, rock climbing, ascending rock 15550 12.0 sports, rope jumping, fast 15551 10.0 sports, rope jumping, moderate, general 15552 8.0 sports, rope jumping, slow 15570 3.0 sports, rope jumping, slow 15570 3.0 sports, skateboarding 15580 5.0 sports, skateboarding 15590 7.0 sports, skating, roller (Taylor Code 360) 15591 12.5 sports, skating, roller (Taylor Code 360) 15600 3.5 sports, sky diving 15600 10.0 sports, soccer, competitive 15610 7.0 sports, soccer, casual, general (Taylor Code 540) 15620 5.0 sports, softball, officiating 15640 6.0 sports, softball, officiating 15650 12.0 sports, softball, pitching 15650 12.0 sports, squash (Taylor Code 430) 15670 4.0 sports, table tennis, ping pong (Taylor Code 410) 15675 7.0 sports, tennis, general 15680 6.0 sports, tennis, general 15690 8.0 sports, tennis, doubles (Taylor Code 420) 15710 4.0 sports, volleyball (Taylor Code 400)	15	5500	6.0	sports,	paddleball, casual, general (Taylor Code 460)
15530 7.0 sports, racquetball, casual, general (Taylor Code 470) 15535 11.0 sports, rock climbing, ascending rock 15540 8.0 sports, rock climbing, ascending rock 15550 12.0 sports, rope jumping, fast 15551 10.0 sports, rope jumping, moderate, general 15552 8.0 sports, rope jumping, moderate, general 15550 10.0 sports, rope jumping, slow 15560 10.0 sports, rugby 15570 3.0 sports, skateboarding 15580 5.0 sports, skateboarding 15580 7.0 sports, skateboarding 15590 7.0 sports, skateboarding 15600 3.5 sports, roller blading (in-line skating) 15600 3.5 sports, sky diving 15601 7.0 sports, soccer, competitive 15610 7.0 sports, soccer, casual, general (Taylor Code 540) 15630 4.0 sports, softball or baseball, fast or slow pitch, general (Taylor Code 440) 15630 4.0 sports, softball, officiating 15640 6.0 sports, softball, pitching 15650 12.0 sports, squash (Taylor Code 530) 15660 4.0 sports, squash (Taylor Code 530) 15670 4.0 sports, tai chi 15675 7.0 sports, tai chi 15680 6.0 sports, tennis, general 15680 6.0 sports, tennis, general 15690 8.0 sports, tennis, doubles 15690 8.0 sports, tennis, doubles 15710 4.0 sports, trampoline 15710 4.0 sports, volleyball (Taylor Code 400)	15	5510	8.0	sports,	polo
15535 11.0 sports, rock climbing, ascending rock 15540 8.0 sports, rock climbing, rappelling 15550 12.0 sports, rope jumping, fast 15551 10.0 sports, rope jumping, moderate, general 15552 8.0 sports, rope jumping, slow 15560 10.0 sports, rugby 15570 3.0 sports, shuffleboard, lawn bowling 15580 5.0 sports, skateboarding 15590 7.0 sports, skateboarding 15591 12.5 sports, roller blading (in-line skating) 15600 3.5 sports, sky diving 15601 7.0 sports, soccer, competitive 15610 7.0 sports, soccer, casual, general (Taylor Code 540) 15620 5.0 sports, softball, officiating 15640 6.0 sports, softball, officiating 15650 12.0 sports, squash (Taylor Code 530) </td <td>15</td> <td>5520</td> <td>10.0</td> <td>sports,</td> <td></td>	15	5520	10.0	sports,	
15540 8.0 sports, rock climbing, rappelling 15550 12.0 sports, rope jumping, fast 15551 10.0 sports, rope jumping, moderate, general 15552 8.0 sports, rugby 15560 10.0 sports, shuffleboard, lawn bowling 15570 3.0 sports, skateboarding 15580 5.0 sports, skating, roller (Taylor Code 360) 15591 12.5 sports, skating, roller (Taylor Code 360) 15600 3.5 sports, sky diving 15601 7.0 sports, soccer, competitive 15610 7.0 sports, soccer, casual, general (Taylor Code 540) 15620 5.0 sports, softball or baseball, fast or slow pitch, general (Taylor Code 440) 15630 4.0 sports, softball, pitching 15650 12.0 sports, squash (Taylor Code 530) 15660 4.0 sports, table tennis, ping pong (Taylor Code 410) 15675 7	15	5530	7.0	sports,	
15550 12.0 sports, rope jumping, fast rope jumping, moderate, general rope jumping, moderate, general sports, rope jumping, slow rugby sports, rugby shuffleboard, lawn bowling skateboarding skateboa	15	5535	11.0	sports,	rock climbing, ascending rock
15551 10.0 sports, rope jumping, moderate, general rope jumping, slow rugby 15560 10.0 sports, rugby 15570 3.0 sports, skateboarding skateboar	15	5540	8.0	sports,	rock climbing, rappelling
15552 8.0 sports, rope jumping, slow 15560 10.0 sports, rugby 15570 3.0 sports, shuffleboard, lawn bowling 15580 5.0 sports, skateboarding 15590 7.0 sports, skating, roller (Taylor Code 360) 15591 12.5 sports, sky diving 15600 3.5 sports, sky diving 15601 7.0 sports, soccer, competitive 15610 7.0 sports, soccer, casual, general (Taylor Code 540) 15620 5.0 sports, softball or baseball, fast or slow pitch, general (Taylor Code 440) 15630 4.0 sports, softball, officiating 15650 12.0 sports, softball, pitching 15660 4.0 sports, squash (Taylor Code 530) 15670 4.0 sports, tai chi 15675 7.0 sports, tennis, general 15680 6.0 sports, tennis, doubles (Taylor Code 430)<	1.5	5550	12.0	sports,	
15560 10.0 sports, shuffleboard, lawn bowling skateboarding shuffleboard, lawn bowling skateboarding shuffleboard, lawn bowling skateboarding shuffleboard, lawn bowling shuffleboard, lawn bowling skateboarding shuffleboarding skateboarding shuffleboard, lawn bowling skateboarding shuffleboarding skateboarding skateboarding skateboarding skateboarding shuffleboarding skateboarding s	1.5	5551	10.0	sports,	
15570 3.0 sports, shuffleboard, lawn bowling 15580 5.0 sports, skateboarding 15590 7.0 sports, skating, roller (Taylor Code 360) 15591 12.5 sports, skating, roller (Taylor Code 360) 15600 3.5 sports, sky diving 15605 10.0 sports, soccer, competitive 15610 7.0 sports, soccer, casual, general (Taylor Code 540) 15620 5.0 sports, softball or baseball, fast or slow pitch, general (Taylor Code 440) 15630 4.0 sports, softball, officiating 15640 6.0 sports, softball, pitching 15650 12.0 sports, squash (Taylor Code 530) 15660 4.0 sports, table tennis, ping pong (Taylor Code 410) 15675 7.0 sports, tennis, general 15680 6.0 sports, tennis, doubles 15690 8.0 sports, tennis, singles (Taylor Code 420) 15700 <t< td=""><td>1.5</td><td>5552</td><td>8.0</td><td>sports,</td><td>rope jumping, slow</td></t<>	1.5	5552	8.0	sports,	rope jumping, slow
15580 5.0 sports, skateboarding 15590 7.0 sports, skating, roller (Taylor Code 360) 15591 12.5 sports, roller blading (in-line skating) 15600 3.5 sports, sky diving 15601 7.0 sports, soccer, competitive 15610 7.0 sports, soccer, casual, general (Taylor Code 540) 15620 5.0 sports, softball, officiating 15630 4.0 sports, softball, officiating 15640 6.0 sports, softball, pitching 15650 12.0 sports, squash (Taylor Code 530) 15660 4.0 sports, table tennis, ping pong (Taylor Code 410) 15670 4.0 sports, tennis, general 15680 6.0 sports, tennis, doubles (Taylor Code 430) 15690 8.0 sports, tennis, singles (Taylor Code 420) 15700 3.5 sports, tennis, singles (Taylor Code 420) 15710 4.0	15	5560	10.0	sports,	
15590 7.0 sports, skating, roller (Taylor Code 360) 15591 12.5 sports, roller blading (in-line skating) 15600 3.5 sports, sky diving 15601 7.0 sports, soccer, competitive 15610 7.0 sports, soccer, casual, general (Taylor Code 540) 15620 5.0 sports, softball or baseball, fast or slow pitch, general (Taylor Code 440) 15630 4.0 sports, softball, officiating 15640 6.0 sports, squash (Taylor Code 530) 15650 12.0 sports, table tennis, ping pong (Taylor Code 410) 15670 4.0 sports, tai chi 15675 7.0 sports, tennis, general 15680 6.0 sports, tennis, doubles (Taylor Code 430) 15685 5.0 sports, tennis, singles (Taylor Code 420) 15700 3.5 sports, tennis, singles (Taylor Code 420) 15710 4.0 sports, volleyball (Taylor Code 400)	1.5	5570	3.0	sports,	
15591 12.5 sports, roller blading (in-line skating) 15600 3.5 sports, sky diving 15605 10.0 sports, soccer, competitive 15610 7.0 sports, soccer, casual, general (Taylor Code 540) 15620 5.0 sports, softball or baseball, fast or slow pitch, general (Taylor Code 440) 15630 4.0 sports, softball, officiating 15640 6.0 sports, softball, pitching 15650 12.0 sports, squash (Taylor Code 530) 15660 4.0 sports, table tennis, ping pong (Taylor Code 410) 15675 7.0 sports, tennis, general 15680 6.0 sports, tennis, doubles (Taylor Code 430) 15685 5.0 sports, tennis, singles (Taylor Code 420) 15700 3.5 sports, tennis, singles (Taylor Code 420) 15710 4.0 sports, volleyball (Taylor Code 400)	1.5	5580		sports,	
15600 3.5 sports, sky diving 15605 10.0 sports, soccer, competitive 15610 7.0 sports, soccer, casual, general (Taylor Code 540) 15620 5.0 sports, softball or baseball, fast or slow pitch, general (Taylor Code 440) 15630 4.0 sports, softball, officiating 15650 12.0 sports, squash (Taylor Code 530) 15660 4.0 sports, table tennis, ping pong (Taylor Code 410) 15675 7.0 sports, tennis, general 15680 6.0 sports, tennis, doubles (Taylor Code 430) 15685 5.0 sports, tennis, doubles 15690 8.0 sports, tennis, singles (Taylor Code 420) 15710 4.0 sports, trampoline 15710 4.0 sports, volleyball (Taylor Code 400)	1.5	5590		sports,	
15605 10.0 sports, soccer, competitive 15610 7.0 sports, soccer, casual, general (Taylor Code 540) 15620 5.0 sports, softball or baseball, fast or slow pitch, general (Taylor Code 440) 15630 4.0 sports, softball, officiating 15650 12.0 sports, squash (Taylor Code 530) 15660 4.0 sports, table tennis, ping pong (Taylor Code 410) 15670 4.0 sports, tennis, general 15680 6.0 sports, tennis, doubles (Taylor Code 430) 15685 5.0 sports, tennis, doubles 15690 8.0 sports, tennis, singles (Taylor Code 420) 15710 4.0 sports, trampoline 15710 4.0 sports, volleyball (Taylor Code 400)	15	5591		sports,	•
15610 7.0 sports, soccer, casual, general (Taylor Code 540) 15620 5.0 sports, softball or baseball, fast or slow pitch, general (Taylor Code 440) 15630 4.0 sports, softball, officiating 15640 6.0 sports, softball, pitching 15650 12.0 sports, squash (Taylor Code 530) 15660 4.0 sports, table tennis, ping pong (Taylor Code 410) 15675 7.0 sports, tennis, general 15680 6.0 sports, tennis, doubles (Taylor Code 430) 15685 5.0 sports, tennis, doubles 15690 8.0 sports, tennis, singles (Taylor Code 420) 15700 3.5 sports, trampoline 15710 4.0 sports, volleyball (Taylor Code 400)				sports,	
15620 5.0 sports, softball or baseball, fast or slow pitch, general (Taylor Code 440) 15630 4.0 sports, softball, officiating 15640 6.0 sports, softball, pitching 15650 12.0 sports, squash (Taylor Code 530) 15660 4.0 sports, table tennis, ping pong (Taylor Code 410) 15675 7.0 sports, tennis, general 15680 6.0 sports, tennis, doubles (Taylor Code 430) 15685 5.0 sports, tennis, doubles 15690 8.0 sports, tennis, singles (Taylor Code 420) 15700 3.5 sports, trampoline 15710 4.0 sports, volleyball (Taylor Code 400)				sports,	
15630 4.0 sports, softball, officiating 15640 6.0 sports, softball, pitching 15650 12.0 sports, squash (Taylor Code 530) 15660 4.0 sports, table tennis, ping pong (Taylor Code 410) 15675 7.0 sports, tennis, general 15680 6.0 sports, tennis, doubles (Taylor Code 430) 15685 5.0 sports, tennis, singles (Taylor Code 420) 15700 3.5 sports, trampoline 15710 4.0 sports, volleyball (Taylor Code 400)				sports,	
15640 6.0 sports, softball, pitching 15650 12.0 sports, squash (Taylor Code 530) 15660 4.0 sports, table tennis, ping pong (Taylor Code 410) 15670 4.0 sports, tai chi 15680 6.0 sports, tennis, general 15685 5.0 sports, tennis, doubles 15690 8.0 sports, tennis, singles (Taylor Code 420) 15700 3.5 sports, trampoline 15710 4.0 sports, volleyball (Taylor Code 400)	_			sports,	
15650 12.0 sports, squash (Taylor Code 530) 15660 4.0 sports, table tennis, ping pong (Taylor Code 410) 15670 4.0 sports, tal chi 15675 7.0 sports, tennis, general 15680 6.0 sports, tennis, doubles (Taylor Code 430) 15685 5.0 sports, tennis, doubles 15690 8.0 sports, tennis, singles (Taylor Code 420) 15700 3.5 sports, trampoline 15710 4.0 sports, volleyball (Taylor Code 400)				sports,	
15660 4.0 sports, table tennis, ping pong (Taylor Code 410) 15670 4.0 sports, tai chi 15675 7.0 sports, tennis, general 15680 6.0 sports, tennis, doubles (Taylor Code 430) 15685 5.0 sports, tennis, doubles 15690 8.0 sports, tennis, singles (Taylor Code 420) 15700 3.5 sports, trampoline 15710 4.0 sports, volleyball (Taylor Code 400)				•	
15670 4.0 sports, tai chi 15675 7.0 sports, tennis, general 15680 6.0 sports, tennis, doubles (Taylor Code 430) 15685 5.0 sports, tennis, doubles 15690 8.0 sports, tennis, singles (Taylor Code 420) 15700 3.5 sports, trampoline 15710 4.0 sports, volleyball (Taylor Code 400)				-	
15675 7.0 sports, tennis, general 15680 6.0 sports, tennis, doubles (Taylor Code 430) 15685 5.0 sports, tennis, doubles 15690 8.0 sports, tennis, singles (Taylor Code 420) 15700 3.5 sports, trampoline 15710 4.0 sports, volleyball (Taylor Code 400)				•	
15680 6.0 sports, tennis, doubles (Taylor Code 430) 15685 5.0 sports, tennis, doubles 15690 8.0 sports, tennis, singles (Taylor Code 420) 15700 3.5 sports, trampoline 15710 4.0 sports, volleyball (Taylor Code 400)				•	
15685 5.0 sports, tennis, doubles 15690 8.0 sports, tennis, singles (Taylor Code 420) 15700 3.5 sports, trampoline 15710 4.0 sports, volleyball (Taylor Code 400)				-	
15690 8.0 sports, tennis, singles (Taylor Code 420) 15700 3.5 sports, trampoline 15710 4.0 sports, volleyball (Taylor Code 400)				-	
15700 3.5 sports, trampoline 15710 4.0 sports, volleyball (Taylor Code 400)				•	·
15710 4.0 sports, volleyball (Taylor Code 400)				•	
				-	
15/11 8.0 sports, voneyban, competitive, in gymnasium				-	
	1:	5/11	8.0	sports,	voneyoan, compentive, in gynniasium

Figure 1—Continued.

CODE	METS	SPECIFIC ACTIVITY	EXAMPLES
15720	3.0	sports,	volleyball, non-competitive, 6 - 9 member team, general
15725	8.0	sports,	volleyball, beach
15730	6.0	sports,	wrestling (one match = 5 minutes)
15731	7.0	sports,	wallyball, general
15732	4.0	sports,	track and field (shot, discus, hammer throw)
15733	6.0	sports,	track and field (high jump, long jump, triple jump, javelín, pole vault)
15734	10.0	sports,	track and field (steeplechase, hurdles)
16010	2.0	transportation,	automobile or light truck (not a semi) driving
16015	1.0	transportation,	riding in a car or truck
16016	1.0	transportation,	riding in a bus
16020	2.0	transportation,	flying airplane
16030	2.5	transportation,	motor scooter, motorcycle
16040	6.0	transportation,	pushing plane in and out of hangar
16050	3.0	transportation,	driving heavy truck, tractor, bus
17010	7.0	walking,	backpacking (Taylor Code 050)
17020	3.5	walking,	carrying infant or 15 pound load (e.g. suitcase), level ground or downstairs
17025	9.0	walking,	carrying load upstairs, general
17026	5.0	walking,	carrying 1 to 15 lb load, upstairs
17020	6.0	walking,	carrying 16 to 24 lb load, upstairs
17027	8.0	walking,	carrying 25 to 49 lb load, upstairs
17029	10.0	walking,	carrying 50 to 74 lb load, upstairs
17029	12.0	walking,	carrying 74+ lb load, upstairs
17031	3.0	walking,	loading /unloading a car
17031	7.0	walking,	climbing hills with 0 to 9 pound load
17040	7.5	walking,	climbing hills with 10 to 20 pound load
17050	8.0	walking,	climbing hills with 21 to 42 pound load
17060	9.0	walking,	climbing hills with 42+ pound load
17070	3.0	walking,	downstairs
17080	6.0	walking,	hiking, cross country (Taylor Code 040)
17085	2.5	walking,	bird watching
17090	6.5	walking,	marching, rapidly, military
17100	2.5	walking,	pushing or pulling stroller with child or walking with children
17105	4.0	walking,	pushing a wheelchair, non-occupational setting
17110	6.5	walking,	race walking
17110	8.0	walking,	rock or mountain climbing (Taylor Code 060)
17120	8.0	walking,	up stairs, using or climbing up ladder (Taylor Code 030)
17140	5.0	walking,	using crutches
17150	2.0	walking,	walking, household
17151	2.0	walking,	walking, less than 2.0 mph, level ground, strolling, very slow
17152	2.5	walking,	walking, 2.0 mph, level, slow pace, firm surface
17160	3.5	walking,	walking for pleasure (Taylor Code 010)
17161	2.5	walking,	walking from house to car or bus, from car or bus to go places, from car or bus to and from the worksite
17162	2.5	walking,	walking to neighbor's house or family's house for social reasons
17165	3.0	walking,	walking the dog
17170	3.0	walking,	walking, 2.5 mph, firm surface
17180	2.8	walking,	walking, 2.5 mph, downhill
17190	3.3	walking,	walking, 3.0 mph, level, moderate pace, firm surface
17200	3.8	walking,	walking, 3.5 mph, level, brisk, firm surface, walking for exercise
17210	6.0	walking,	walking, 3.5 mph, uphill
17220	5.0	walking,	walking, 4.0 mph, level, firm surface, very brisk pace
17230	6.3	walking,	walking, 4.5 mph, level, firm surface, very, very brisk
	~	J,	

Figure 1—Continued.

CODE	METS	SPECIFIC ACTIVITY	EXAMPLES
17231	8.0	walking,	walking, 5.0 mph
17250	3.5	walking,	walking, for pleasure, work break
17250	5.0	walking,	walking, grass track
17270	4.0	walking,	walking, to work or class (Taylor Code 015)
	2.5	O .	, , , , , , , , , , , , , , , , , , ,
17280 18010	2.5	walking, water activities,	walking to and from an outhouse boating, power
	4.0	water activities,	C/ 1
18020			canoeing, on camping trip (Taylor Code 270)
18025	3.3	water activities,	canoeing, harvesting wild rice, knocking rice off the stalks
18030	7.0	water activities,	canoeing, portaging
18040	3.0	water activities,	canoeing, rowing, 2.0-3.9 mph, light effort
18050	7.0	water activities,	canoeing, rowing, 4.0-5.9 mph, moderate effort
18060	12.0	water activities,	canoeing, rowing, >6 mph, vigorous effort
18070	3.5	water activities,	canoeing, rowing, for pleasure, general (Taylor Code 250)
18080	12.0	water activities,	canoeing, rowing, in competition, or crew or sculling (Taylor Code 260)
18090	3.0	water activities,	diving, springboard or platform
18100	5.0	water activities,	kayaking
18110	4.0	water activities,	paddle boat
18120	3.0	water activities,	sailing, boat and board sailing, windsurfing, ice sailing, general (Taylor Code 235)
18130	5.0	water activities,	sailing, in competition
18140	3.0	water activities,	sailing, Sunfish/Laser/Hobby Cat, Keel boats, ocean sailing, yachting
18150	6.0	water activities,	skiing, water (Taylor Code 220)
18160	7.0	water activities,	skimobiling
18180	16.0	water activities,	skindiving, fast
18190	12.5	water activities,	skindiving, moderate
18200	7.0	water activities,	skindiving, scuba diving, general (Taylor Code 310)
18210	5.0	water activities,	snorkeling (Taylor Code 320)
18220	3.0	water activities,	surfing, body or board
18230	10.0	water activities,	swimming laps, freestyle, fast, vigorous effort
18240	7.0	water activities,	swimming laps, freestyle, slow, moderate or light effort
18250	7.0	water activities,	swimming, backstroke, general
18260	10.0	water activities,	swimming, breaststroke, general
18270	11.0	water activities,	swimming, butterfly, general
18280	11.0	water activities,	swimming, crawl, fast (75 yards/minute), vigorous effort
18290	8.0	water activities.	swimming, crawl, slow (50 yards/minute), moderate or light effort
18300	6.0	water activities,	swimming, lake, ocean, river (Taylor Codes 280, 295)
18310	6.0	water activities,	swimming, leisurely, not lap swimming, general
18320	8.0	water activities.	swimming, sidestroke, general
18330	8.0	water activities.	swimming, synchronized
18340	10.0	water activities,	swimming, treading water, fast vigorous effort
18350	4.0	water activities.	swimming, treading water, moderate effort, general
18355	4.0	water activities,	water aerobics, water calisthenics
18360	10.0	water activities,	water polo
18365	3.0	water activities.	water volleyball
18366	8.0	water activities,	water jogging
18370	5.0	water activities,	whitewater rafting, kayaking, or canoeing
19010	6.0	winter activities,	moving ice house (set up/drill holes, etc.)
19020	5.5	winter activities,	skating, ice, 9 mph or less
19030	7.0	winter activities,	skating, ice, 9 mph of ices skating, ice, general (Taylor Code 360)
19030	9.0	winter activities,	skating, ice, general (Taylor Code 500) skating, ice, rapidly, more than 9 mph
19040	15.0	winter activities,	skating, speed, competitive
19050	7.0	winter activities,	ski jumping (climb up carrying skis)
13000	7.0	white activities,	are lambure (emus ab emulue aria)

Figure 1-Continued.

CODE	METS	SPECIFIC ACTIVITY	EXAMPLES
19075	7.0	winter activities,	skiing, general
19080	7.0	winter activities,	skiing, cross country, 2.5 mph, slow or light effort, ski walking
19090	8.0	winter activities,	skiing, cross country, 4.0-4.9 mph, moderate speed and effort, general
19100		winter activities,	skiing, cross country, 5.0-7.9 mph, brisk speed, vigorous effort
19110	14.0	winter activities,	skiing, cross country, >8.0 mph, racing
19130	16.5	winter activities,	skiing, cross country, hard snow, uphill, maximum, snow mountaineering
19150	5.0	winter activities,	skiing, downhill, light effort
19160	6.0	winter activities,	skiing, downhill, moderate effort, general
19170	8.0	winter activities,	skiing, downhill, vigorous effort, racing
19180	7.0	winter activities,	sledding, tobogganing, bobsledding, luge (Taylor Code 370)
19190	8.0	winter activities,	snow shoeing
19200	3.5	winter activities,	snowmobiling
20000	1.0	religious activities,	sitting in church, in service, attending a ceremony, sitting quietly
20001	2.5	religious activities,	sitting, playing an instrument at church
20005	1.5	religious activities,	sitting in church, talking or singing, attending a ceremony, sitting, active participation
20010	1.3	religious activities,	sitting, reading religious materials at home
20015	1.2	religious activities,	standing in church (quietly), attending a ceremony, standing quietly
20020	2.0	religious activities,	standing, singing in church, attending a ceremony, standing, active participation
20025	1.0	religious activities,	kneeling in church/at home (praying)
20030	1.8	religious activities,	standing, talking in church
20035	2.0	religious activities,	walking in church
20036	2.0	religious activities,	walking, less than 2.0 mph - very slow
20037	3.3	religious activities,	walking, 3.0 mph, moderate speed, not carrying anything
20038	3.8	religious activities,	walking, 3.5 mph, brisk speed, not carrying anything
20039	2.0	religious activities,	walk/stand combination for religious purposes, usher
20040	5.0	religious activities,	praise with dance or run, spiritual dancing in church
20045	2.5	religious activities,	serving food at church
20046	2.0	religious activities,	preparing food at church
20047	2.3	religious activities,	washing dishes/cleaning kitchen at church
20050	1.5	religious activities,	eating at church
20055	2.0	religious activities,	eating/talking at church or standing eating, American Indian Feast days
20060	3.0	religious activities,	cleaning church
20061	5.0	religious activities,	general yard work at church
20065	2.5	religious activities,	standing - moderate (lifting 50 lbs., assembling at fast rate)
20095	4.0	religious activities,	standing - moderate/heavy work
20100	1.5	religious activities,	typing, electric, manual, or computer
21000	1.5	volunteer activities,	sitting - meeting, general, and/or with talking involved
21005	1.5	volunteer activities,	sitting - light office work, in general
21010 21015	2.5 2.3	volunteer activities,	sitting - moderate work
21013	2.5	volunteer activities,	standing - light work (filing, talking, assembling)
21017	3.0	volunteer activities,	sitting, child care, only active periods
21017	4.0	volunteer activities,	standing, child care, only active periods
21019	5.0	volunteer activities,	walk/run play with children, moderate, only active periods
21020	3.0	volunteer activities,	walk/run play with children, vigorous, only active periods
21025	3.5	volunteer activities,	standing - light/moderate work (pack boxes, assemble/repair, set up chairs/furniture)
21023	4.0	volunteer activities,	standing - moderate (lifting 50 lbs., assembling at fast rate)
21035	1.5	volunteer activities, volunteer activities,	standing - moderate/heavy work
21033	2.0		typing, electric, manual, or computer
21040	3.3	volunteer activities,	walking, less than 2.0 mph, very slow
21045	3.8	volunteer activities,	walking, 3.0 mph, moderate speed, not carrying anything
21055	3.0	volunteer activities, volunteer activities,	walking, 3.5 mph, brisk speed, not carrying anything
21060	4.0	volunteer activities,	walking, 2.5 mph slowly and carrying objects less than 25 pounds
21065	4.5	volunteer activities,	walking, 3.0 mph moderately and carrying objects less than 25 pounds, pushing someth
21003	3.0	volunteer activities,	walking, 3.5 mph, briskly and carrying objects less than 25 pounds
21070	5.0	volumees activities,	walk/stand combination, for volunteer purposes



COPYRIGHT INFORMATION

TITLE: Compendium of physical activities: an update of activity

codes and MET intensities

SOURCE: Medicine and Science in Sports and Exercise 32 no9 S

2000 supp

WN: 0024601727009

The magazine publisher is the copyright holder of this article and it is reproduced with permission. Further reproduction of this article in violation of the copyright is prohibited..

Copyright 1982-2002 The H.W. Wilson Company. All rights reserved.