Analyses of Diets suggested by the Technical Commission of the League of Nations.

| Age | Calories | Ptn. | | P. | Fe. | Vitamins I. Units | | | | |
|-------------------------------|----------|------|---------------|-----------------|---------|-------------------|-------------|---|--------------|--|
| AGO | Galuitos | gm. | gm. From P | gm. rotectiv | e Foods | A | Bl | C | D | |
| | | | | | | | | | | |
| 1 - 2 years | 835 | 37 | (| | | 1. | | | | |
| 2-3 " | 1,050 | 46 | (1.12 | 0.93 | 4.5 | | | | | |
| 3 - 5 " | 1,215 | 53 | 1.28 | 1.08 | 5.7 | | | | | |
| 5 - 7 " | 1,430 | 64 | 1.30 | 1.20 | 7.6 | | | | | |
| 12-14 " | 1,255 | 69 | 1.45 | 1.40 | 13.1 | | | | | |
| Preg. and Nursing Women | 2,440 | 105 | 1.6 | 1.7 | 10.2 | over 5,000 | 0ver 150 | | About 300 | |

The diets from which these nutrients are derived do not take into account the energy requirements of muscular exercise. These requirements would ordinarily come mainly from cereals. The pregnant or nursing woman, for example, would require 600 - 800 calories in addition and the cereals necessary to provide these calories would supply more protein, Fe and P., more vitamin B and small amounts of other minerals depending on the proportion of whole grain (e.g. wheat or oats) eaten.

| | | | | National Printers and Street S | | - | - | Anna maria mana mana mana mana mana mana mana ma | - | primes consistent and an analysis of the second and |
|--------------------------|-----------------------------|-----------------------------|------------------------|--|---|--|---|--|--|--|
| | Worker | No. of children | Period of Exper. | aı | Ages nd Supplements | Gain in Weight | % Gain | Gain in Height | % Gain | Remarks |
| Gt. Britain 7 centres | Leighton and Clark | 1425 | 7 mths. | 6-7 yrs. \$\frac{3}{4} pt. \$\frac{9}{2} pt. \$\frac{1}{2} p | (1) Whole Milk (2) Sep. Milk (3) Biscuits E Calories in sep. milk (4) Nil |)3.58 lbs.))2.46 lbs. | makandardardardardardardardardardardardardard |)1.46 ins.))1.18 ins. | deligion and management of the control of the contr | Difference in gain in Ht. and Wt. between whole milk and sep. milk groups was not significant except in 6 yrs. old where whole milk was significantly better. |
| Lanarkshire | Leighton and McKinley | 20 ,000 | 4 mths. | 10,000 | (1) Controls (2) 13 pt. raw (3) 3 pt. past. |)4-6 ozs.)more)than)Controls | |).l ins.)more)than)Controls | | No significant difference between raw and pasteurised. |
| New Zealand | Turbott and Rolland | 93 + 25 Controls | 13 wks. | Under 9 Over 9 | l pint l pint Controls |))1.65 kg.) 0.66 kgs. | the early cape. | 0.8 ins. | | Ages 10-11 dil best. 12-14 gained less height but more weight than 5-7 c.f. Leighton & Clark. No appreciable |
| | | | | | | | | | | difference between 1 pt. and $\frac{1}{2}$ pt. suppl. |
| South India Ay | Aykroyd | Aykroyd 122 boys 11-15 yrs. | 14 wks. | | Powder = 8 ozs. sk. milk | 4.7 lbs. | | 0.61 ins. | | |
| | | | | Millet = Cal. in 8 ozs. ak. | | 2.1 lbs. | | 0.35 ins. | | |
| | | | | Groups re | versed Sk. milk Millet | 3.07lbs. | | 0.69 ins. | | |
| Japan | | 319 + 416 Controls | 6 mths. | | 180-360 c.c. milk Controls | 1.163 kg. 0.947 kg. | | 2.83 cms. 2.43 cms. | | |

15 = 1.0. 12-14-\$90. 3)2.70 man valuerperday 9-12. The energy value 34000. comer 34000 horselased or 3000. comer Protein 100gs Jah - 100 Carbohydrates Lorganie Sallo Water 1500 3000 2700 energy deverage for the 9000 gus proter Roberis 90. gms Fat. 90 X 9000 Culto 450 gm mater 131000 40.500 58500

PHYSICAL EFFICIENCY INDEX

Maximum = 50.

| (1) Pulse Rate:- Deduction | (2) Blood Pressure: - Deduction Systolic pressure - |
|--|--|
| Sitting - over 78 per minute 1 | over 130 mm. Hg. 1 |
| 1 96 1 11 3 | " 140 " 2 " 150 " 3 |
| On changing, Sitting to Standing- Increase of 24 per minute or over 1 | 150 " 3 160 " 4 |
| in a 36 ii ii ii ii ii 2 | Diastolic pressure - |
| After exercise - | below 75 mm. Hg. 1 |
| Increase to 108 per minute or over 1 | 1 70 1 2 1 60 1 5 |
| 11 11 11 11 11 11 11 11 13 | above 90 " 1 |
| 11 11 144 11 11 11 11 14 | 1 94 1 2 |
| Return to normal rate - | below 75 mm. Hg. 1 1 70 2 1 60 5 above 90 1 1 1 94 1 2 1 98 1 5 Pulso above 50 1 1 Pressure 60 2 |
| over 30 secs. 1 | Pulso above 50 " 2 Pressure 60 " 2 |
| n 60 th 3 | (11 70 11 3 |
| (3) | Expiratory Force - uncorlimming. 1 |
| Breath-holding - under 70 secs. 1 | " 100 " 2 |
| n 50 n 3 | n 90 n 3 |
| BEARING NAME OF THE PARTY OF TH | |
| (5) <u>Knee Jerks</u> - + + 2 | (6) Tremor - slight, hands 1 |
| | marked, hands 3 |
| (7) Self-balancing - | marked, hands o |
| 2 attempts 1) for 2)each | |
| 0 " 3)side. | |
| | |
| (8) Endurance (40 mm. Hg.) test | Pulse Rate during Test - |
| Time below 52 secs. | Gradual rise - starting 6 or 7 (per 5 seconds)l |
| n n 40 n 6 | " starting 8 (per |
| | 5 seconds) |
| | Immediate sustained rise to 8 (per 5 seconds) or over 2 |
| FIT = 40 - 50 | Immediate rise (in first 15 |
| DOUBTFUL = 35 - 40 | seconds) to 11 (per 5 seconds) |
| | Immediate rise to 12 (per 5 |
| UNFIT = Under 35. | seconds) or ever4 |
| and the second of the second o | Marked immediate rise with |
| | subsequent rapid fall in rate (inside 46 seconds) 5 |
| | (TUBLUE 14 populary) |

85. It will be seen that the index is arrived at by deducting marks for non-effectiveness. The absolutely physically efficient pilot would, therefore, obtain the maximum marks, 50, but such efficiency is seldom found. As a general rule it may be laid down that:-

40 - 50 marks indicates physical fitness for flying duties; 35 - 40 marks indicates doubtful fitness; under 35 marks indicates unfitness for flying duties.

In respect of the doubtful class (35-40) the whole facts of the case must be carefully reviewed, and from these an opinion can be formed as to possible fitness or otherwise, and in the case of unfitness, whether this be temporary or permanent.

86. Broadly speaking, therefore, in forming his final conclusion the assessor assures himself that (1) the subject presents such physiological characteristics that he is likely to become an efficient pilot, and (2) he has no history or present sign of any defect or disease likely to render him unfit for such duty.

Extract from "The Medical Examination for Fitness for Flying (Royal Air Force and Civil)" H.M.S.O. 1934. (pp. 26 - 28).

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