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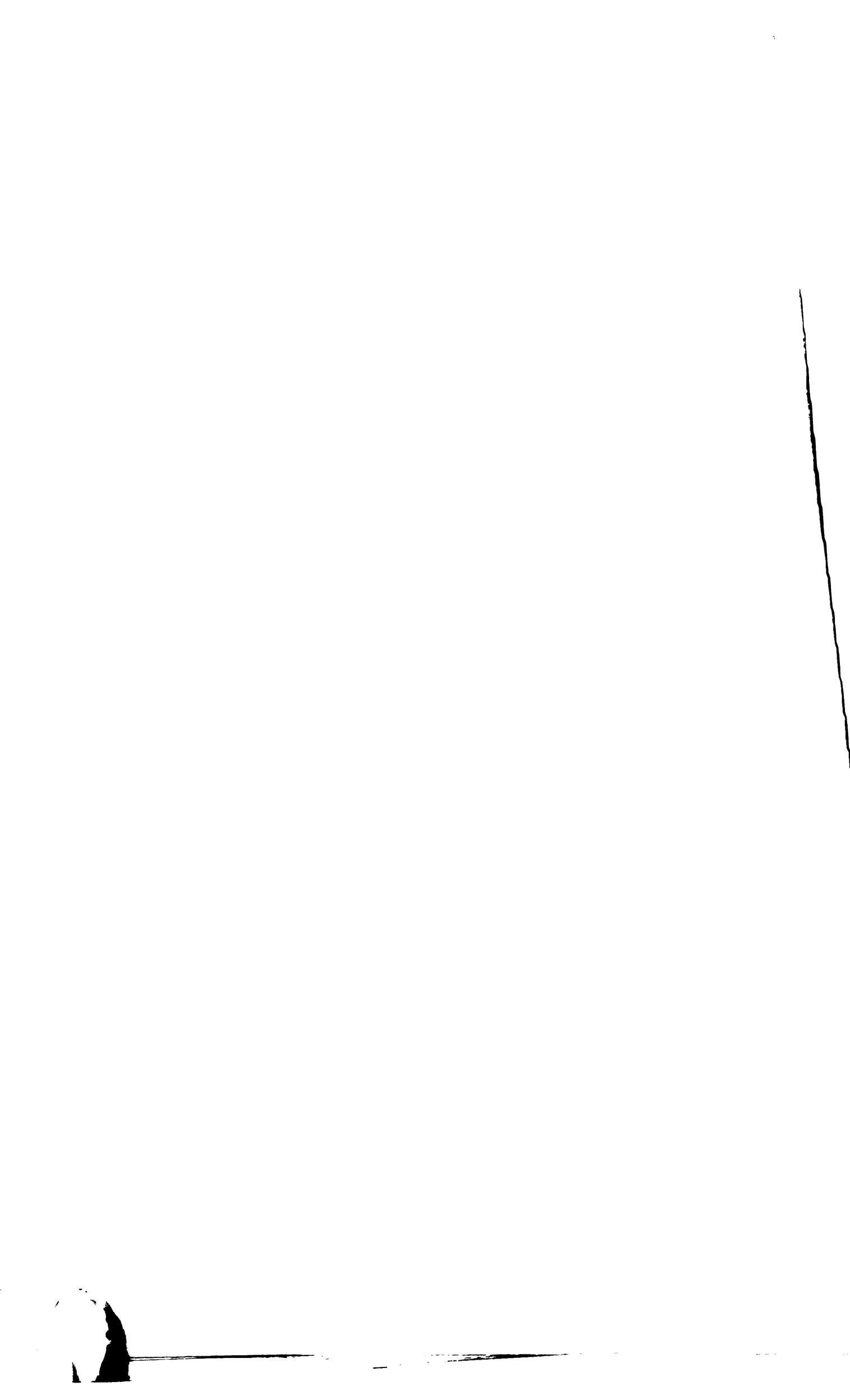
FEEDING FINISHED STEERS

Thesis for the Degree of B. S.

Antranig G. Bodourian

1900





Thesis

on

Feeding Finished Steers.

By

A. G. Bodourian.

Michigan Agricultural College, 1900.

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Thesis

On Feeding Finished Steers.

This thesis is the result of 12 weeks trial made by me during the winter term of 1900. Unfortunately, the time devoted for such an experiment as this was very short. Therefore, perhaps, the results obtained from it may be doubted, and would not be considered as valuable as they would have been otherwise. However, what is herein stated is accurate and true to the best of my knowledge and belief. I confess frankly that I did learn much ^{more} from this trial than I did during four years of my college course in the Agricultural classroom, as far as the feeding is concerned.

Respectfully Submitted

A. G. Bodourian.

Note,- The author will be glad to answer any question, at any time, in regard of any point found in this thesis.

A. G. B

History and Object in View.

During the latter part of the fall term 1899 the Superintendent of Michigan Agricultural College Farm - Herbert W. Mumford, bought from Smith and Wiggins, of Corning, Mich, some steers that were prize winners at State Fair at Grand Rapids in September of 1899. The prime object of his purchase, as reported in the M. A. C. Record, was to show to students especially to Short Course what a finished steer looks like. Also, if possible, to carry some further experiment with them in the line of feeding. At the time of their arrival on the College grounds their condition was very striking, so there was some doubt whether anything could be done with the steers; but after several consultations with Professor Mumford I decided to take my thesis work experimenting in "feeding finished steers," in order to convince myself, if not others, with an object lesson so easily obtained, how much could be done, under ordinary conditions, with the steers that were already in good marketable condition.

With this idea I chose from the lot the two which were better than any of the others namely, Peck and Senator, nearly of the same size and age, and apparently one a good feeder, the other bad. According to Mr. Smith's letter, Peck dropped on December 25th, '97 from a pure bred Angus and high grade Shorthorn cow, and Senator on December 1st, '97 from a pure bred Angus. For a proper comparison, we added a heifer Baroness's Girl, which was dropped on December 22, '97, from a pure bred Angus cow and Royal Mysie. Baroness's Girl was in a poor condition, but was a good feeder.

Environment.

The barn where we fed our animals, though better than the average farmers provide, was not entirely satisfactory for such a purpose. One of the most disagreeable features, according to my judgment, was the fact that three of the pens in the barn were occupied by pigs, whose noise and odor are not agreeable to such sensitive animals as cattle. The season, as it was noted by nearly all the stock feeders in the state was not favorable, especially in our locality. However, the supply of food and help for the accomplishment of our experiment was satisfactory in all respects.

General Care of the Steers.

Animals were fed three times a day regularly. The amount of food varied each day according to the climatic conditions and the appetite of the animal. The Schedule of meals was as follows,-

Morning 6 a. m.	Noon 12:30 p. m.	Evening 4 p. m.
<hr/>		
Cut Clover Hay,		
Mixed Grain,	Sugar Beets	Same as in the
Sugar Beets,	alone	morning.

The cattle were watered twice a day. In the morning before or after meals and at noon before feeding. Rock salt was kept in the mangers at all times. Stables were kept clean and the animals were carefully groomed. A close attention was given to the condition of the animals, and a kindly attitude toward them was at all times maintained. A habit to which the feeder attributes largely his success

if any at all. The mangers were cleaned thoroughly every morning before feeding, and the residue was kept in separate boxes for each steer. The waste material thus obtained was weighed and used for some other purpose.

On the whole, I might say, the care was not extraordinary, because the idea was to make it such that every stock feeder could adopt without difficulty or expense.

Rations Used in Our Trial.

The following are the three different combinations of grains used in three successive periods of our trial,- The first is rather a continuation to that of Mr. Smith's. The second is the richest of any, and the third is the most economical.

Mixture No. 1 for the 1st four weeks.

By Weight,-

1/2 Corn Meal
1/8 Oat Meal
1/4 Wheat Bran
1/8 Oil Meal

Mixture No. 2 for the 2nd four weeks.

By Weight,-

3/8 Corn Meal
3/8 Wheat Bran
1/4 Oil Meal

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Mixture No. 3 for the 3rd four weeks.

By Weight,-

$\frac{1}{2}$ Corn Meal

$\frac{1}{2}$ Wheat Bran

Feeding Stuffs and Percentage of Their Digestibility.

The following table shows the average coefficients of digestibility of the respective feeding stuffs used in our experiment. Scientific feeders have used Oil Meal very extensively in order to balance their ration. But it was entirely omitted in the third period of our trial, in order to reduce the economic value of the ration.

Table I.

Feeding Stuff	Percentage Digestibility			
	Dry matter	Protein	Carbo-Hydrate	Ether extract
Corn Meal	89.1	7.9	66.7	4.3
Wheat Bran	88.5	12.9	40.1	3.4
Oil Meal	91.8	25.8	43.3	11.
Oat Meal	92.1	11.5	52.1	5.9
Clover Hay	84.7	6.8	35.8	1.7
Sugar Beet	13.5	1.1	10.2	0.1

• 1990-1991 Year of the Environment • 1991-1992 Year of the Environment

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the 1990s, the number of people in the world who are under 15 years of age is expected to increase from 1.1 billion to 1.4 billion. The number of people aged 65 and over is expected to increase from 200 million to 400 million. The number of people aged 15 and over is expected to increase from 3.5 billion to 4.5 billion. The number of people aged 15 and over is expected to increase from 3.5 billion to 4.5 billion. The number of people aged 15 and over is expected to increase from 3.5 billion to 4.5 billion.

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4. *Conclusions* The results of this study indicate that the use of a single, standardized, and validated questionnaire is a feasible and reliable method for assessing the prevalence of mental health problems in a community sample. The prevalence of mental health problems was found to be higher in the community sample than in the clinical sample, which is consistent with the findings of other studies. The results also suggest that the use of a single, standardized, and validated questionnaire is a feasible and reliable method for assessing the prevalence of mental health problems in a community sample.

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| 8.0 | 8.1 | 8.2 | 8.10 | 1000.000 |
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| 7.1 | 7.1 | 7.1 | 7.11 | 700.0000 |
| 1.0 | 9.01 | 1.1 | 9.11 | 1000.000 |

Table II.

Trial Ration(first period) for Peck, weighing 1220lbs

| Feeding Stuff. | lbs. | D. M. | Digestible Nutriment. | | | | N.
Ratio. |
|----------------|------|-------|-----------------------|-------|-----------|--|--------------|
| | | | prot. | C. H. | eth. ext. | | |
| Mixture No. 1. | 5.5 | 2.45 | .217 | 1.83 | .118 | | |
| & | | .63 | .07 | .35 | .04 | | |
| Clover Hay | 4.5 | .63 | .17 | .29 | .07 | | |
| & | | 1.21 | .17 | .55 | .046 | | |
| Sugar Beet | 30. | 3.81 | .3 | 1.61 | .076 | | |
| | | 4.05 | .33 | 3.06 | .03 | | |
| | | 12.78 | 1.257 | 7.69 | .38 | | |
| W. L. Standard | 30. | 2.5 | | 15. | .50 | | 1:6.5 |

This table shows that Peck consumed 40# of feeding stuff a day. The ration far below the standard yet gave average daily gain of 2.14#.

● 1995 年 1 月 1 日

DECLASSIFICATION AUTHORITY DERIVED FROM: (1) 25 USC 552, (2) 5 U.S.C. 552

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1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

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1. *Chlorophyll a* (Chl *a*) and *Chlorophyll b* (Chl *b*) were determined by the method of Arar and Collins (1971) using a Shimadzu 1010 spectrophotometer. The concentration of Chl *a* and Chl *b* was expressed as $\mu\text{g mL}^{-1}$ of the sample.

• *Journal of Management Education* 32(10):1039-1050

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• **2010-2011**: **100%** of the total population of the country is covered by the national health insurance scheme.

2000 年 12 月 10 日 星期一 晴

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Table III.

Trial Ration(second period)for Peck, weighing 1280 $\frac{1}{2}$ lb.

| Feeding Stuff. | lbs. | D. M. | Nutrient Digestible. | | | |
|----------------|------|-------|----------------------|-------|----------|----------|
| | | | prot. | C. H. | eth.ext. | N. Ratio |
| Mixture No 2. | 4.5 | 1.49 | .13 | 1.12 | .07 | |
| & | | 1.43 | .21 | .67 | .05 | |
| Clover Hay | 4. | 1.04 | .29 | .49 | .12 | |
| & | | 3.38 | .27 | 1.43 | .06 | |
| Sugar Beet | 45. | 6.07 | .49 | 4.59 | .64 | |
| | | 13.41 | 1.39 | 8.3 | .34 | |

During this period Peck consumed per day 4.5 $\frac{1}{2}$ of grain, 4 $\frac{1}{2}$ of hay and 45 $\frac{1}{2}$ of sugar beets. This ration is richer than the first, but in eth. ext. However the average daily gain during this period was 1.42 $\frac{1}{2}$ lb.

Table IV.

Trial Ration(third period)for Peck, weighing 1320⁺lb.

| Feeding Stuff. | lbs. | D.M. | Digestible Nutriment. | | | |
|----------------|------|-------|-----------------------|-------|----------|----------|
| | | | prot. | C. H. | eth.ext. | H. Ratio |
| Mixture No. 3 | 5. | 2.22 | .19 | 1.66 | .1 | |
| & | | 2.15 | .32 | 1. | .08 | |
| Clover Hay | 5. | 4.23 | .34 | 1.79 | .08 | |
| & | | 6.07 | .49 | 4.59 | .04 | |
| Sugar Beet | 45. | | | | | |
| | | 14.65 | 1.34 | 9.04 | .3 | |

This third ration comparatively is the richest of the three. Yet during this period the animal weighed more than before. The average daily gain was 1.78⁺lb. It is higher than the second by .36⁺lb, and less than the first by .36⁺lb.

Table IV.

Trial Ration (third period) for Beck, weighing 1300.

| Feeding Stuff. | Lbs. | D.L. | Digestible Nutrients. | | |
|----------------|------|-------|-----------------------|----------|-------|
| | | | Cr. H. | St. Ext. | Ratio |
| Mixture No. 2 | 5. | 2.02 | 1.62 | 1. | |
| " | | 2.12 | 1. | .03 | |
| Clover Hay | 5. | 4.72 | 1.72 | .02 | |
| " | | 2.07 | 4.72 | .04 | |
| Grass Hay | 47. | 14.72 | 9.04 | 2. | |

This third ration comparatively is the richest of the three. Yet during this period the animal weighed more than before. The average daily gain was 1.75%. It is higher than the second by .26%, and less than the first by .75%.

Table V.

Trial Ration(first period)for Senator, weighing 1308#.

| Feeding Stuff. | lbs. | D. M. | Digestible Nutriment. | | | |
|----------------|-------|--------|-----------------------|-------|----------|-------------|
| | | | prot. | C. H. | eth.ext. | N.
Ratio |
| Corn Meal | 2.75 | 2.45 | .217 | 1.83 | .118 | |
| Oil Meal | .687 | .63 | .07 | .35 | .04 | |
| Oat Meal | .687 | .63 | .17 | .29 | .07 | |
| Wheat Bran | 1.375 | 1.21 | .17 | .55 | .046 | |
| Clover Hay | 5. | 4.02 | .32 | 1.69 | .08 | |
| Sugar Beet | 30. | 4.05 | .33 | 3.06 | .03 | |
| | | 12. 99 | 1.277 | 7.77 | .374 | |
| W. L. S. | | 30.0 | 2.5 | 2.5 | .50 | 1:6.5 |

The above table shows the first ration for the first period. It falls much below the standard. Yet Senator, during this period, has shown 2.28# daily gain.

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• 1941, 1942, 1943, 1944 (Dobry, 1944) 1945, 1946

Journal of Management Studies, 19(6), 701-718.

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6. A. B. C. D. E. F. G. H. I. J. K. L. M. N. O. P. Q. R. S. T. U. V. W. X. Y. Z.

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Table VI.

Trial Ration(second period)for Senator, weighing 1372 $\frac{1}{2}$

| Feeding Stuff | lbs | D.M. | Digestible Nutriment. | | | |
|---------------|-------|-------|-----------------------|-------|----------|-------------|
| | | | prot. | C. H. | eth.ext. | N.
Ratio |
| Corn Meal | 1.875 | 1.67 | .14 | 1.25 | .08 | |
| Wheat Bran | 1.875 | 1.65 | .24 | .75 | .06 | |
| Oil Meal | 1.25 | 1.14 | .32 | .54 | .13 | |
| Clover Hay | 4.75 | 3.99 | .32 | 1.70 | .08 | |
| Sugar Beet | 42. | 5.67 | .46 | 4.28 | .04 | |
| | | 14.12 | 1.48 | 8.52 | .39 | |
| W. L. S. | | 30. | 2.5 | 15. | .50 | 1:6.5 |

This second ration also falls below the standard. However it is richer than the first. But the gain during this period is 1.42 $\frac{1}{2}$ daily, that is .86 $\frac{1}{2}$ less than the first period. What does this test show? I leave this for the Scientist to answer. Were we to get greater daily gain if our ration was richer or the amount of feed increased??? I do not think so.

● 1997年10月1日

DATE: 11/11/2010 TIME: 10:00:00 (11/11/2010) PAGE: 1/1

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1. *Journal of the American Medical Association*, 1997; 277: 1033-1036.

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1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

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Table VII.

Trial Ration(third period)for Senator, weighing 1412 $\frac{1}{2}$ lbs.

| Feeding Stuff. | lbs. | D. M. | Digestible Nutrient. | | | |
|----------------|-------|-------|----------------------|-------|----------|-------------|
| | | | prot. | C. H. | eth.ext. | N.
ratio |
| Corn Meal | 2.625 | 2.33 | .2 | 1.75 | .11 | |
| Wheat Bran | 2.625 | 2.32 | .33 | 1.05 | .08 | |
| Clover Hay | 5.25 | 4.44 | .35 | 1.87 | .08 | |
| Sugar Beet | 42. | 5.67 | .46 | 4.28 | .04 | |
| | | 14.76 | 1.34 | 9.47 | .31 | |
| W. L. C. | | 30. | 2.5 | 15. | .50 | 1:6.5 |

This ration is richer than the first, but eth.ext. also richer than the second in D. M. and C. H. but deficient in prot. and eth. ext. yet the average daily gain during this period was 2.92 $\frac{1}{2}$ lbs, being higher than any of the best.

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Table VIII.

Trial Ration(first period) for Baroness's Girl,weighing 1042 $\frac{1}{2}$ lb.

| Feeding Stuff. | lbs | D. M. | Digestible Nutrient. | | | |
|----------------|------|-------|----------------------|-------|----------|----------|
| | | | prot. | C. N. | eth.ext. | M. Ratio |
| Corn Meal | 3.5 | 2.33 | .27 | 2.33 | .15 | |
| Wheat Bran | 1.75 | 1.54 | .22 | .7 | .05 | |
| Oil Meal | .875 | .8 | .22 | .37 | .09 | |
| Oat Meal | .875 | .8 | .1 | .45 | .05 | |
| Clover Hay | 6. | 5. | .4 | 2.14 | .1 | |
| Sugar Beet | 30. | 4.05 | .33 | 3.06 | .03 | |
| | | | | | | |
| | | 15.30 | 1.54 | 9.05 | .47 | |
| W. L. S. | | 30.0 | 2.5 | 15. | .5 | 1:6.5 |

This ration falls below the standard very heavily. It is deficient in all constituents. However the W. L. Standard is a ration for the rapid fattening of a steer weighing 1000 $\frac{1}{2}$ lb(first period) yet our trial shows positively that the average daily gain of Baroness's Girl was 2.78 $\frac{1}{2}$ lb(during this period).

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• 1766 • (1766) • 1766 •

• 1766 • (1766) • 1766 •

• 1766 • (1766) • 1766 •

• 1766 • (1766) • 1766 •

Table IX.

Trial Ration(second period) for Baroness Girl, weighing 1120#.

| Feeding Stuff. | lbs. | D. M. | Digestible Nutrient. | | | |
|----------------|------|-------|----------------------|-------|----------|----------|
| | | | prot. | C. H. | eth.ext. | N. Ratio |
| Corn Meal | 2.34 | 2.08 | .18 | 1.55 | .1 | |
| Wheat Bran | 2.34 | 2.07 | .3 | .93 | .07 | |
| Oil Meal | 1.57 | 1.44 | .4 | .07 | .17 | |
| Sugar Beet | 39. | 5.26 | .42 | 3.97 | .01 | |
| Cut Clover Hay | 6. | 5. | .4 | 2.14 | .1 | |
| | | 15.35 | 1.60 | 8.66 | .45 | |
| W. L. S. | | 30. | 2.5 | 15. | .50 | 1:6.5 |

This second ration also falls below the standard, being 14.15# D. M. .9 prot. 6.44 C. H. .05 eth. ext. It is slightly richer in digestible matter, prot. eth. ext., but lacks in C. H. yet the average daily gain for this period is 2.35#.

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Table X.

Trial Ration(third period)for Baroness's Girl,weighing 1186 $\frac{1}{2}$ lb.

| Feeding Stuff. | lbs. | D. M. | Digestible Nutriment. | | | |
|----------------|------|-------|-----------------------|-------|----------|-------|
| | | | prot. | C. F. | eth.ext. | Ratio |
| Corn Meal | 3.5 | 3.11 | .27 | 2.33 | .15 | |
| Wheat Bran | 3.5 | 3.09 | .45 | 1.4 | .1 | |
| Clover Hay | 6. | 5. | .4 | 2.14 | .1 | |
| Sugar Beet | 39. | 5.26 | .42 | 3.97 | .01 | |
| | | 16.46 | 1.54 | 9.84 | .36 | |
| W. L. S. | | 30.0 | 2.5 | 15. | .50 | 1:6.5 |

This ration also needs much in order to equal the W. L. Standard. It is richer in dry matter and C. F. than the preceding ones but lacks in eth. ext. Yet the average daily gain for this period is 3.5 $\frac{1}{2}$ %. Taking in consideration the ration on which she was fed, the average gain seems to be remarkable.

Table XI.

Mean Rations.

Table showing the Mean Rations of each animal for each period, and for the whole time.

| Name | Rat-
ion. | per-
iod. | Digestible Nutriment. | | | | |
|-----------------|--------------|--------------|-----------------------|-------|------|--------------|---------------------|
| | | | D.M. | | | | Gain
per
day. |
| | | | | prot. | C.M. | eth.
ext. | |
| Peck | No.1. | 1st. | 12.78 | 1.257 | 7.69 | .38 | 2.14 |
| | No.2. | 2nd. | 13.41 | 1.39 | 8.3 | .34 | 1.42 |
| | No.3. | 3rd. | 14.65 | 1.34 | 9.04 | .3 | 1.78 |
| Average. | | | 13.61 | 1.32 | 8.34 | .34 | 1.78 |
| Senator | No.1. | 1st. | 12.99 | 1.277 | 7.77 | .374 | 2.28 |
| | No.2. | 2nd. | 14.12 | 1.48 | 8.52 | .39 | 1.42 |
| | No.3. | 3rd. | 14.76 | 1.34 | 9.47 | .31 | 2.92 |
| Average | | | 13.95 | 1.36 | 8.62 | .35 | 2.21 |
| Baroness's Girl | No.1. | 1st. | 15.30 | 1.54 | 9.05 | .47 | 2.78 |
| | No.2. | 2nd. | 15.85 | 1.60 | 8.66 | .45 | 2.35 |
| | No.3. | 3rd. | 16.46 | 1.54 | 9.84 | .36 | 3.5 |
| Average | | | 15.87 | 1.56 | 9.15 | .42 | 2.88 |

This table shows the average ration of each animal for the whole period.

Table XII.

Mean Ration for the whole period of the animals.

Table showing the average Mean Ration for the whole period.

| Names | Av.
Rat-
ion.

for
the
whole
period. | whole
period | Digestible Nutriment. | | | | |
|-----------------|---|-----------------|-----------------------|-------|-------|--------------|----------------|
| | | | D. M. | prot | C.H. | eth.
ext. | Daily
gain. |
| | | 12 w'ks. | | | | | lbs |
| Peck | " | " | 13.61# | 1.32# | 8.34# | .34# | 1.78# |
| Senator | " | " | 13.95 | 1.36 | 8.62 | .35 | 2.21 |
| Baroness's Girl | " | " | 15.87 | 1.56 | 9.15 | .42 | 2.88 |
| Average | | | 14.47 | 1.41 | 8.7 | .37 | 2.29 |

Above table shows that the Mean Average Ration for the whole period, of the animals, was as follows,- 14.47# dry matter; 1.41# prot., 8.7# C. H. and .37# eth. ext.

• I N T R O D U C T I O N •

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Table VIII.

Results of Trial.

Variation in individual weight while feeding.

Weekly weight of steer during 12 weeks trial-A. G. B.

| | W't of
steer
Peck
lbs. | gain
or
loss
lbs. | W't of
steer
Sena-
tor
lbs. | gain
or
loss
lbs. | W't of
B. Girl
heifer
lbs. | gain
or
loss
lbs. |
|---------------|---------------------------------|----------------------------|---|----------------------------|-------------------------------------|----------------------------|
| Dec. 2nd--- | 1220 | --- | 1308 | --- | 1042 | --- |
| " 9th--- | 1244 | 24 | 1342 | 34 | 1074 | 32 |
| " 16th--- | 1260 | 16 | 1352 | 10 | 1098 | 24 |
| " 23rd--- | 1260 | --- | 1350 | 2 | 1100 | 2 |
| " 30--- | 1280 | 20 | 1372 | 22 | 1120 | 20 |
| Gain per week | | 60 | | 64 | | 78 |
| Jan. 6-'00. | 1292 | 12 | 1390 | 18 | 1134 | 14 |
| " 13--- | 1282 | 10 | 1390 | -- | 1134 | -- |
| " 20--- | 1296 | 14 | 1404 | 14 | 1162 | 28 |
| " 27--- | 1320 | 24 | 1412 | 8 | 1186 | 24 |
| per week | | 40 | | 40 | | 66 |
| Feb. 3--- | 1336 | 16 | 1436 | 24 | 1206 | 20 |
| " 10--- | 1346 | 10 | 1450 | 14 | 1218 | 12 |
| " 17--- | 1350 | 4 | 1474 | 24 | 1250 | 32 |
| " 24--- | 1370 | 20 | 1494 | 20 | 1284 | 34 |
| per week | | 50 | | 82 | | 98 |

The above table shows that Peck gained the most during the first four weeks, which is about 60%. But he falls to 40% during the second, and he raised to 50% during the third period. However the weights taken in each week were not so variable. On the other hand Senator shows the best gain during the third period, which is, 82%, ha falls to 40% during the second period just as Peck did, and, he gives 64% gain during the first period. Senator shows more weekly varaitions than Peck, the highest gain being 24% and the lowest 2%. Baroness's Girl shows the greatest gain during the third period, however, she falls to 66% during the second period.

Now we observe that all of the animals show the least gain during the second period. By the way, I call your attention to the fact that the first and the last weights were taken after the animals were fed and watered. This is a great mistake, though it does not effect the rate of gain for the whole period.

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Table XIV.

The rate of gain of steers during their early period compared with that of ours.

| per-
iod. | No.
of
days. | Av.
gain
per
head | Av.
gain
per
week. | Av.
gain
per
day. | No.
of
per-
iod. | No.
of
days. | Av.
gain
per
head. | Av.
gain
per
week. | Av.
gain
per
day. |
|-------------------|--------------------|----------------------------|-----------------------------|----------------------------|---------------------------|--------------------|-----------------------------|-----------------------------|----------------------------|
| -for- | | | | | | | | | |
| Peck | | | | | Senator | | | | |
| 1 | 28 | 22.14 | 5.6 | .8 | 1 | 28 | 45.08 | 11.27 | 1.61 |
| 2 | " | 54.04 | 13.51 | 1.93 | 2 | " | 76.72 | 19.18 | 2.74 |
| 3 | " | 44.8 | 11.2 | 1.6 | 3 | " | 44.8 | 11.2 | 1.6 |
| 4 | " | 31.36 | 7.84 | 1.12 | 4 | " | 45.08 | 11.27 | 1.61 |
| 5 | " | 4.48 | 1.12 | .16 | 5 | " | 18.48 | 4.62 | .66 |
| 6 | " | 67.48 | 16.87 | 2.41 | 6 | " | 31.36 | 7.84 | 1.12 |
| 7 | " | 76.72 | 19.18 | 2.74 | 7 | " | 76.72 | 19.18 | 2.74 |
| 8 | " | 31.36 | 7.84 | 1.12 | 8 | " | 26.88 | 6.72 | .96 |
| 9 | " | 85.68 | 21.42 | 3.06 | 9 | " | 34.44 | 8.61 | 1.23 |
| | | 45.98 | 11.49 | 1.64 | | | 44.39 | 11.09 | 1.58 |
| Averages of both. | | | | | | | | | |

This table shows that during 9 four weeks periods Peck made the best gain during the 9th period, which is 85.68# for four weeks, 21.42# per week and 3.06 per day. The lowest gain he made was 5.6# per week and .8# per day which was during the first period.

Table XV.

Monthly weight taken by Mr. Smith during the period
of fattening.

| Date | Weight of
steer Peck | Gain
or
loss | Weight of
steer
Senator | Gain
or
loss |
|----------------|-------------------------|--------------------|-------------------------------|--------------------|
| Dec. 1st, 1898 | 730 $\frac{1}{2}$ | --- $\frac{1}{2}$ | 740 $\frac{1}{2}$ | --- $\frac{1}{2}$ |
| Jan. 1st, 1899 | 755 | 25 | 790 | 50 |
| Feb. 1st, " | 815 | 60 | 875 | 85 |
| March 1st, " | 860 | 45 | 920 | 45 |
| April 1st, " | 895 | 35 | 970 | 50 |
| May 1st, " | 890 | 5 | 990 | 20 |
| June 1st, " | 965 | 75 | 1025 | 35 |
| July 1st, " | 1050 | 85 | 1110 | 85 |
| Aug. 1st, " | 1065 | 35 | 1140 | 30 |
| Sept. 1st, " | 1160 | 95 | 1180 | 40 |

The above table shows that the highest gain for Peck was 95 $\frac{1}{2}$ during the month of August, the lowest 25 $\frac{1}{2}$ while he was in proper condition for fattening, on the other hand Senator made the best gain during the month of January, being 85 $\frac{1}{2}$, the lowest is 20 $\frac{1}{2}$ during April. In comparing these results with the gains that they made during the short period of our trial, we found that they made better records in our hands. We do not doubt that they had good care under Mr. Smith. However, we cannot help asking the question, why is it that they gave better results when they were already finished than in poor condition?

Table XVI.

The effect of age, breed and condition on rate of gain.

| Name of animal. | Age | Breed | Cond. | Weight
at com-
menc-
ment. | Gain
in 12
weeks. | Gain
per
week. | Gain
per
day. |
|------------------|----------|-----------|-------|-------------------------------------|-------------------------|----------------------|---------------------|
| Peck | 705 days | Ab. Angus | fair | 1220# | 150# | 12.5 | 1.78 |
| Senator | 730 " | " " | well | 1308 | 186 | 15.5 | 2.21 |
| Baroness 's Girl | 710 " | Shorthorn | poor | 1042 | 242 | 20.16 | 2.88 |
| Average | | | | | | | |

The above table shows that the Shorthorn heifer made the best gain, perhaps most ly on account of her poor condition than the breed. The following table shows the same thing , but in three successive four weeks periods.

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Table XVII.

Comparison of the first and last periodical gains.

| Name of animal. | Period | Length
of
period | Av. gain
per
head. | Av. gain
per
week. | Av. gain
per
day. |
|-----------------|--------|------------------------|--------------------------|--------------------------|-------------------------|
| Peck | No. 1 | 28 days | 60 | 15 | 2.14 |
| | No. 2 | " " | 40 | 10 | 1.42 |
| | No. 3 | " " | 50 | 12.5 | 1.78 |
| Senator | No. 1 | " " | 64 | 16 | 2.28 |
| | No. 2 | " " | 40 | 10 | 1.42 |
| | No. 3 | " " | 82 | 20.5 | 2.92 |
| Baroness's Girl | No. 1 | " " | 78 | 19.5 | 2.78 |
| | No. 2 | " " | 66 | 16.5 | 2.35 |
| | No. 3 | " " | 98 | 20.45 | 3.5 |

In comparing Table XV. with Table XVII. we observe that the steers did show better results during the last part of their feeding period than the 1st. This result seems to be so marked and contrary to those obtained by different experimentors.

● **THEORY OF THE CASE** — The defendant was charged with the murder of a woman. The prosecution presented evidence that the defendant had a motive to kill the woman and that he had been seen near the crime scene at the time of the murder. The defense presented evidence that the defendant was not present at the crime scene and that he had no motive to kill the woman. The jury was instructed to find the defendant guilty if they believed the prosecution's evidence beyond a reasonable doubt. The jury found the defendant guilty of murder.

• In, including the following to the meeting:

| Year | Month | Day | Time | Location | Remarks |
|------|-------|-----|-------|---------------|---------|
| 1954 | 12 | 1 | 10:00 | San Francisco | Arrived |
| 1954 | 12 | 2 | 10:00 | San Francisco | Left |
| 1954 | 12 | 3 | 10:00 | San Francisco | Arrived |
| 1954 | 12 | 4 | 10:00 | San Francisco | Left |
| 1954 | 12 | 5 | 10:00 | San Francisco | Arrived |
| 1954 | 12 | 6 | 10:00 | San Francisco | Left |
| 1954 | 12 | 7 | 10:00 | San Francisco | Arrived |
| 1954 | 12 | 8 | 10:00 | San Francisco | Left |
| 1954 | 12 | 9 | 10:00 | San Francisco | Arrived |
| 1954 | 12 | 10 | 10:00 | San Francisco | Left |
| 1954 | 12 | 11 | 10:00 | San Francisco | Arrived |
| 1954 | 12 | 12 | 10:00 | San Francisco | Left |

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[illegible]

• *Journal of the American Medical Association*, 2000; 283: 2669-2672.

Table XVII. B.

Comparison of the effect of age and condition on the rate of gain.

| Name of animal. | Age | Breed | Cond. | W't at begin-
ning. | Total
gain. | Gain
per
week. | Gain
per
day. |
|-----------------|----------|-----------|-------|------------------------|-------------------|----------------------|---------------------|
| Peck | | Ab. Angus | young | 730 | 413.84 | 11.49 | 1.64 |
| Senator | | | young | 740 | 399.56 | 11.09 | 1.58 |
| Average | | | | 735 | 406.7 | 11.29 | 1.61 |
| Peck | 705 days | " " | fair | 1220 | 150 | 12.5 | 1.78 |
| Senator | 730 " | " " | well | 1308 | 186 | 15.5 | 2.21 |
| Average | | | | 1264 $\frac{1}{2}$ | 168 $\frac{1}{2}$ | 14. $\frac{1}{2}$ | 1.99" |

The above table shows plainly that the average gain for both, during our trial was higher than that in their early period; one being 1.99 $\frac{1}{2}$ per day, and the other 1.61 $\frac{1}{2}$. Why is it that we get such a good result as this? If it is true that they make better gain in the early period, why did they not in this experiment??

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from the position of the ship to the east to nothing at

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1. The first group of people who are not in the military are the people who are not in the military.

[illegible][illegible]

Figure 1. The effect of the concentration of the *Agaricus bisporus* spores on the growth of *Agaricus bisporus* and *Agaricus bisporus* spores. The concentration of the spores was 10⁶ spores/ml (a), 10⁷ spores/ml (b), 10⁸ spores/ml (c), 10⁹ spores/ml (d), 10¹⁰ spores/ml (e), 10¹¹ spores/ml (f), 10¹² spores/ml (g), 10¹³ spores/ml (h), 10¹⁴ spores/ml (i), 10¹⁵ spores/ml (j), 10¹⁶ spores/ml (k), 10¹⁷ spores/ml (l), 10¹⁸ spores/ml (m), 10¹⁹ spores/ml (n), 10²⁰ spores/ml (o), 10²¹ spores/ml (p), 10²² spores/ml (q), 10²³ spores/ml (r), 10²⁴ spores/ml (s), 10²⁵ spores/ml (t), 10²⁶ spores/ml (u), 10²⁷ spores/ml (v), 10²⁸ spores/ml (w), 10²⁹ spores/ml (x), 10³⁰ spores/ml (y), 10³¹ spores/ml (z), 10³² spores/ml (aa), 10³³ spores/ml (ab), 10³⁴ spores/ml (ac), 10³⁵ spores/ml (ad), 10³⁶ spores/ml (ae), 10³⁷ spores/ml (af), 10³⁸ spores/ml (ag), 10³⁹ spores/ml (ah), 10⁴⁰ spores/ml (ai), 10⁴¹ spores/ml (aj), 10⁴² spores/ml (ak), 10⁴³ spores/ml (al), 10⁴⁴ spores/ml (am), 10⁴⁵ spores/ml (an), 10⁴⁶ spores/ml (ao), 10⁴⁷ spores/ml (ap), 10⁴⁸ spores/ml (aq), 10⁴⁹ spores/ml (ar), 10⁵⁰ spores/ml (as), 10⁵¹ spores/ml (at), 10⁵² spores/ml (au), 10⁵³ spores/ml (av), 10⁵⁴ spores/ml (aw), 10⁵⁵ spores/ml (ax), 10⁵⁶ spores/ml (ay), 10⁵⁷ spores/ml (az), 10⁵⁸ spores/ml (ba), 10⁵⁹ spores/ml (bb), 10⁶⁰ spores/ml (bc), 10⁶¹ spores/ml (bd), 10⁶² spores/ml (be), 10⁶³ spores/ml (bf), 10⁶⁴ spores/ml (bg), 10⁶⁵ spores/ml (bh), 10⁶⁶ spores/ml (bi), 10⁶⁷ spores/ml (bj), 10⁶⁸ spores/ml (bk), 10⁶⁹ spores/ml (bl), 10⁷⁰ spores/ml (bm), 10⁷¹ spores/ml (bn), 10⁷² spores/ml (bo), 10⁷³ spores/ml (bp), 10⁷⁴ spores/ml (bq), 10⁷⁵ spores/ml (br), 10⁷⁶ spores/ml (bs), 10⁷⁷ spores/ml (bt), 10⁷⁸ spores/ml (bu), 10⁷⁹ spores/ml (bv), 10⁸⁰ spores/ml (bw), 10⁸¹ spores/ml (bx), 10⁸² spores/ml (by), 10⁸³ spores/ml (bz), 10⁸⁴ spores/ml (ca), 10⁸⁵ spores/ml (cb), 10⁸⁶ spores/ml (cc), 10⁸⁷ spores/ml (cd), 10⁸⁸ spores/ml (ce), 10⁸⁹ spores/ml (cf), 10⁹⁰ spores/ml (cg), 10⁹¹ spores/ml (ch), 10⁹² spores/ml (ci), 10⁹³ spores/ml (cj), 10⁹⁴ spores/ml (ck), 10⁹⁵ spores/ml (cl), 10⁹⁶ spores/ml (cm), 10⁹⁷ spores/ml (cn), 10⁹⁸ spores/ml (co), 10⁹⁹ spores/ml (cp), 10¹⁰⁰ spores/ml (cq), 10¹⁰¹ spores/ml (cr), 10¹⁰² spores/ml (cs), 10¹⁰³ spores/ml (ct), 10¹⁰⁴ spores/ml (cu), 10¹⁰⁵ spores/ml (cv), 10¹⁰⁶ spores/ml (cw), 10¹⁰⁷ spores/ml (cx), 10¹⁰⁸ spores/ml (cy), 10¹⁰⁹ spores/ml (cz), 10¹¹⁰ spores/ml (da), 10¹¹¹ spores/ml (db), 10¹¹² spores/ml (dc), 10¹¹³ spores/ml (dd), 10¹¹⁴ spores/ml (de), 10¹¹⁵ spores/ml (df), 10¹¹⁶ spores/ml (dg), 10¹¹⁷ spores/ml (dh), 10¹¹⁸ spores/ml (di), 10¹¹⁹ spores/ml (dj), 10¹²⁰ spores/ml (dk), 10¹²¹ spores/ml (dl), 10¹²² spores/ml (dm), 10¹²³ spores/ml (dn), 10¹²⁴ spores/ml (do), 10¹²⁵ spores/ml (dp), 10¹²⁶ spores/ml (dq), 10¹²⁷ spores/ml (dr), 10¹²⁸ spores/ml (ds), 10¹²⁹ spores/ml (dt), 10¹³⁰ spores/ml (du), 10¹³¹ spores/ml (dv), 10¹³² spores/ml (dw), 10¹³³ spores/ml (dx), 10¹³⁴ spores/ml (dy), 10¹³⁵ spores/ml (dz), 10¹³⁶ spores/ml (ea), 10¹³⁷ spores/ml (eb), 10¹³⁸ spores/ml (ec), 10¹³⁹ spores/ml (ed), 10¹⁴⁰ spores/ml (ee), 10¹⁴¹ spores/ml (ef), 10¹⁴² spores/ml (eg), 10¹⁴³ spores/ml (eh), 10¹⁴⁴ spores/ml (ei), 10¹⁴⁵ spores/ml (ej), 10¹⁴⁶ spores/ml (ek), 10¹⁴⁷ spores/ml (el), 10¹⁴⁸ spores/ml (em), 10¹⁴⁹ spores/ml (en), 10¹⁵⁰ spores/ml (eo), 10¹⁵¹ spores/ml (ep), 10¹⁵² spores/ml (eq), 10¹⁵³ spores/ml (er), 10¹⁵⁴ spores/ml (es), 10¹⁵⁵ spores/ml (et), 10¹⁵⁶ spores/ml (eu), 10¹⁵⁷ spores/ml (ev), 10¹⁵⁸ spores/ml (ew), 10¹⁵⁹ spores/ml (ex), 10¹⁶⁰ spores/ml (ey), 10¹⁶¹ spores/ml (ez), 10¹⁶² spores/ml (fa), 10¹⁶³ spores/ml (fb), 10¹⁶⁴ spores/ml (fc), 10¹⁶⁵ spores/ml (fd), 10¹⁶⁶ spores/ml (fe), 10¹⁶⁷ spores/ml (ff), 10¹⁶⁸ spores/ml (fg), 10¹⁶⁹ spores/ml (fh), 10¹⁷⁰ spores/ml (fi), 10¹⁷¹ spores/ml (fj), 10¹⁷² spores/ml (fk), 10¹⁷³ spores/ml (fl), 10¹⁷⁴ spores/ml (fm), 10¹⁷⁵ spores/ml (fn), 10¹⁷⁶ spores/ml (fo), 10¹⁷⁷ spores/ml (fp), 10¹⁷⁸ spores/ml (fq), 10¹⁷⁹ spores/ml (fr), 10¹⁸⁰ spores/ml (fs), 10¹⁸¹ spores/ml (ft), 10¹⁸² spores/ml (fu), 10¹⁸³ spores/ml (fv), 10¹⁸⁴ spores/ml (fw), 10¹⁸⁵ spores/ml (fx), 10¹⁸⁶ spores/ml (fy), 10¹⁸⁷ spores/ml (fz), 10¹⁸⁸ spores/ml (ga), 10¹⁸⁹ spores/ml (gb), 10¹⁹⁰ spores/ml (gc), 10¹⁹¹ spores/ml (gd), 10¹⁹² spores/ml (ge), 10¹⁹³ spores/ml (gf), 10¹⁹⁴ spores/ml (gg), 10¹⁹⁵ spores/ml (gh), 10¹⁹⁶ spores/ml (gi), 10¹⁹⁷ spores/ml (gj), 10¹⁹⁸ spores/ml (gk), 10¹⁹⁹ spores/ml (gl), 10²⁰⁰ spores/ml (gm), 10²⁰¹ spores/ml (gn), 10²⁰² spores/ml (go), 10²⁰³ spores/ml (gp), 10²⁰⁴ spores/ml (gq), 10²⁰⁵ spores/ml (gr), 10²⁰⁶ spores/ml (gs), 10²⁰⁷ spores/ml (gt), 10²⁰⁸ spores/ml (gu), 10²⁰⁹ spores/ml (gv), 10²¹⁰ spores/ml (gw), 10²¹¹ spores/ml (gx), 10²¹² spores/ml (gy), 10²¹³ spores/ml (gz), 10²¹⁴ spores/ml (ha), 10²¹⁵ spores/ml (hb), 10²¹⁶ spores/ml (hc), 10²¹⁷ spores/ml (hd), 10²¹⁸ spores/ml (he), 10²¹⁹ spores/ml (hf), 10²²⁰ spores/ml (hg), 10²²¹ spores/ml (hh), 10²²² spores/ml (hi), 10²²³ spores/ml (hj), 10²²⁴ spores/ml (hk), 10²²⁵ spores/ml (hl), 10²²⁶ spores/ml (hm), 10²²⁷ spores/ml (hn), 10²²⁸ spores/ml (ho), 10²²⁹ spores/ml (hp), 10²³⁰ spores/ml (hq), 10²³¹ spores/ml (hr), 10²³² spores/ml (hs), 10²³³ spores/ml (ht), 10²³⁴ spores/ml (hu),

1. *Journal of Management Studies*, 1996, 33, 1, 1-12.

1941-1942; 1943-1944; 1945-1946; 1947-1948; 1949-1950; 1951-1952; 1953-1954; 1955-1956; 1957-1958; 1959-1960; 1961-1962; 1963-1964; 1965-1966; 1967-1968; 1969-1970; 1971-1972; 1973-1974; 1975-1976; 1977-1978; 1979-1980; 1981-1982; 1983-1984; 1985-1986; 1987-1988; 1989-1990; 1991-1992; 1993-1994; 1995-1996; 1997-1998; 1999-2000; 2001-2002; 2003-2004; 2005-2006; 2007-2008; 2009-2010; 2011-2012; 2013-2014; 2015-2016; 2017-2018; 2019-2020; 2021-2022; 2023-2024; 2025-2026; 2027-2028; 2029-2030; 2031-2032; 2033-2034; 2035-2036; 2037-2038; 2039-2040; 2041-2042; 2043-2044; 2045-2046; 2047-2048; 2049-2050; 2051-2052; 2053-2054; 2055-2056; 2057-2058; 2059-2060; 2061-2062; 2063-2064; 2065-2066; 2067-2068; 2069-2070; 2071-2072; 2073-2074; 2075-2076; 2077-2078; 2079-2080; 2081-2082; 2083-2084; 2085-2086; 2087-2088; 2089-2090; 2091-2092; 2093-2094; 2095-2096; 2097-2098; 2099-2100; 2101-2102; 2103-2104; 2105-2106; 2107-2108; 2109-2110; 2111-2112; 2113-2114; 2115-2116; 2117-2118; 2119-2120; 2121-2122; 2123-2124; 2125-2126; 2127-2128; 2129-2130; 2131-2132; 2133-2134; 2135-2136; 2137-2138; 2139-2140; 2141-2142; 2143-2144; 2145-2146; 2147-2148; 2149-2150; 2151-2152; 2153-2154; 2155-2156; 2157-2158; 2159-2160; 2161-2162; 2163-2164; 2165-2166; 2167-2168; 2169-2170; 2171-2172; 2173-2174; 2175-2176; 2177-2178; 2179-2180; 2181-2182; 2183-2184; 2185-2186; 2187-2188; 2189-2190; 2191-2192; 2193-2194; 2195-2196; 2197-2198; 2199-2200; 2201-2202; 2203-2204; 2205-2206; 2207-2208; 2209-2210; 2211-2212; 2213-2214; 2215-2216; 2217-2218; 2219-2220; 2221-2222; 2223-2224; 2225-2226; 2227-2228; 2229-2230; 2231-2232; 2233-2234; 2235-2236; 2237-2238; 2239-2240; 2241-2242; 2243-2244; 2245-2246; 2247-2248; 2249-2250; 2251-2252; 2253-2254; 2255-2256; 2257-2258; 2259-2260; 2261-2262; 2263-2264; 2265-2266; 2267-2268; 2269-2270; 2271-2272; 2273-2274; 2275-2276; 2277-2278; 2279-2280; 2281-2282; 2283-2284; 2285-2286; 2287-2288; 2289-2290; 2291-2292; 2293-2294; 2295-2296; 2297-2298; 2299-2300; 2301-2302; 2303-2304; 2305-2306; 2307-2308; 2309-2310; 2311-2312; 2313-2314; 2315-2316; 2317-2318; 2319-2320; 2321-2322; 2323-2324; 2325-2326; 2327-2328; 2329-2330; 2331-2332; 2333-2334; 2335-2336; 2337-2338; 2339-2340; 2341-2342; 2343-2344; 2345-2346; 2347-2348; 2349-2350; 2351-2352; 2353-2354; 2355-2356; 2357-2358; 2359-2360; 2361-2362; 2363-2364; 2365-2366; 2367-2368; 2369-2370; 2371-2372; 2373-2374; 2375-2376; 2377-2378; 2379-2380; 2381-2382; 2383-2384; 2385-2386; 2387-2388; 2389-2390; 2391-2392; 2393-2394; 2395-2396; 2397-2398; 2399-2400; 2401-2402; 2403-2404; 2405-2406; 2407-2408; 2409-2410; 2411-2412; 2413-2414; 2415-2416; 2417-2418; 2419-2420; 2421-2422; 2423-2424; 2425-2426; 2427-2428; 2429-2430; 2431-2432; 2433-2434; 2435-2436; 2437-2438; 2439-2440; 2441-2442; 2443-2444; 2445-2446; 2447-2448; 2449-2450; 2451-2452; 2453-2454; 2455-2456; 2457-2458; 2459-2460; 2461-2462; 2463-2464; 2465-2466; 2467-2468; 2469-2470; 2471-2472; 2473-2474; 2475-2476; 2477-2478; 2479-2480; 2481-2482; 2483-2484; 2485-2486; 2487-2488; 2489-2490; 2491-2492; 2493-2494; 2495-2496; 2497-2498; 2499-2500; 2501-2502; 2503-2504; 2505-2506; 2507-2508; 2509-2510; 2511-2512; 2513-2514; 2515-2516; 2517-2518; 2519-2520; 2521-2522; 2523-2524; 2525-2526; 2527-2528; 2529-2530; 2531-2532; 2533-2534; 2535-2536; 2537-2538; 2539-2540; 2541-2542; 2543-2544; 2545-2546; 2547-2548; 2549-2550; 2551-2552; 2553-2554; 2555-2556; 2557-2558; 2559-2560; 2561-2562; 2563-2564; 2565-2566; 2567-2568; 2569-2570; 2571-2572; 2573-2574; 2575-2576; 2577-2578; 2579-2580; 2581-2582; 2583-2584; 2585-2586; 2587-2588; 2589-2590; 2591-2592; 2593-2594; 2595-2596; 2597-2598; 2599-2600; 2601-2602; 2603-2604; 2605-2606; 2607-2608; 2609-2610; 2611-2612; 2613-2614; 2615-2616; 2617-2618; 2619-2620; 2621-2622; 2623-2624; 2625-2626; 2627-2628; 2629-2630; 2631-2632; 2633-2634; 2635-2636; 2637-2638; 2639-2640; 2641-2642; 2643-2644; 2645-2646; 2647-2648; 2649-2650; 2651-2652; 2653-2654; 2655-2656; 2657-2658; 2659-2660; 2661-2662; 2663-2664; 2665-2666; 2667-2668; 2669-2670; 2671-2672; 2673-2674; 2675-2676; 2677-2678; 2679-2680; 2681-2682; 2683-2684;

Table XVIII.

The amount of feed consumed for 100# gain, and cost of the same during each period according to three different rations.

| Name | Ration & period | Gain in 28 days per head | Gain per head per day | Am't of grain for 100# gain | Hay for 100# gain | Roots for 100# gain | Cost for 100# gain |
|---------------|-----------------|--------------------------|-----------------------|-----------------------------|-------------------|---------------------|--------------------|
| Peck | | 60.7 | 2.14# | 256.66# | 210.4 | 1400# | \$4.69 |
| Senator | No. 1 | 64 | 2.28 | 240.62 | 218.75 | 1312.5 | \$4.48 |
| Baroness's G. | | 78 | 2.78 | 251.16 | 215.38 | 1076.91 | \$4.26 |
| Average | | 67.33 | 2.40 | 249.48 | 214.71 | 1263.13 | \$4.47 |
| Peck | | 40. | 1.42 | 315. | 280. | 3150. | \$7.60 |
| Senator | No. 2 | 40. | 1.42 | 350. | 332.5 | 2940. | \$7.82 |
| Baroness's G. | | 66. | 2.35 | 296.96 | 254.54 | 1654.54 | \$5.48 |
| Average | | 48.66 | 1.73 | 320.65 | 289.01 | 2581.51 | \$6.96 |
| Peck | | 50 | 1.78 | 280. | 280. | 2520. | \$6.12 |
| Senator | No. 3 | 82 | 2.92 | 179.26 | 179.26 | 1434.14 | \$3.69 |
| Baroness's G. | | 98 | 3.5 | 200. | 171.42 | 1114.28 | \$2.79 |
| Average | | 76.6 | 2.73 | 219.75 | 210.22 | 1689.47 | \$4.18 |

The above table shows that it took on an average of grain, 214.71#, clover hay, and 1263.13# roots to make 100# gain live weight, during the first period with the first ration, costing \$4.47 per hundred. During the second period it took 320.65# grain, 289.01# hay and 2581.51# sugar beets, which cost \$6.96 per hundred pounds: but that during the third period the amount of feed consumed for 100# gain was

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on the day, when "I had found a way to escape."

[illegible][illegible]

“...and the fact that the Government has not been able to control the situation in the region of the city of Tbilisi, which is a serious violation of the obligations of the Government of Georgia under the ceasefire agreement.”

... ..

[illegible]

100-384710-200, dated 10/1/67, 37 pages, 11 photos; 100-384710-201, dated

Journal of Management Studies, 19(1), 67-80.

Continued.

219.75# grain, 210.22# hay and 1689.47# sugar beets, thus making the average value of each 100# gain \$4.18. Therefore we notice readily that the trial of the third period was the most economical.

Average cost for 100# gain for each animal during whole period.

The following table shows that the average cost for 100# gain for three periods of three animals separately, was \$6.13 for Peck, \$5.33 for Senator, and \$4.16 for Baroness's Girl. We notice that Baroness's Girl had the lowest cost and Peck stood the highest. The average cost of each during the whole period was \$5.26 per 100# which, considering the unfavorable conditions is quite reasonable. Hence, it took only \$5.26 to produce one pound of flesh live weight.

Table XIX.

Average cost for 100# gain, live weight, each animal.

| Name | Ration | Period | Cost 100#
gain. | Av. cost
100# gain. | cents. |
|-----------------|--------|------------|--------------------|------------------------|--------|
| Peck | No. 1 | 1st 4 w's. | \$4.69 | | |
| | No. 2 | 2nd " " | \$7.60 | \$6.13 | 6.13 |
| | No. 3 | 3rd " " | \$6.12 | | |
| Senator | No. 1 | 1st 4 w's. | \$4.48 | | |
| | No. 2 | 2nd " " | \$7.82 | \$5.33 | \$.33 |
| | No. 3 | 3rd " " | \$3.69 | | |
| Baroness's Girl | No. 1 | 1st 4 w's. | \$4.26 | | |
| | No. 2 | 2nd " " | \$5.48 | \$4.16 | 4.16¢ |
| | No. 3 | 3rd " " | \$2.74 | | |
| Average | | | | \$5.26 | 5.26¢ |

Here also we see plainly that the third ration, though poorest of all, in the amount of digestible nutriment gave the most economical results.

•TABLE 9 (Cont.)

•In this table, the first column is the name of the country, the second column is the year, the third column is the unit, the fourth column is the value, and the fifth column is the source.

•Note: The data in this table are preliminary and subject to change.

| | | | | | |
|------|------|------|------|------|------|
| 1970 | 1971 | 1972 | 1973 | 1974 | 1975 |
| 1976 | 1977 | 1978 | 1979 | 1980 | 1981 |

| | | | | | |
|------|------|------|------|------|------|
| 1982 | 1983 | 1984 | 1985 | 1986 | 1987 |
| 1988 | 1989 | 1990 | 1991 | 1992 | 1993 |

| | | | | | |
|------|------|------|------|------|------|
| 1994 | 1995 | 1996 | 1997 | 1998 | 1999 |
| 2000 | 2001 | 2002 | 2003 | 2004 | 2005 |

| | | | | | |
|------|------|------|------|------|------|
| 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
|------|------|------|------|------|------|

•Source: The data in this table are preliminary and subject to change.

Table XX.

Table Showing the various gains in different successive periods.

| Name | Date | Total gain. | Av. gain per week. | Av. gain per day. | Total gain. | Av. gain per week. | Av. gain per day. |
|-----------------|---------|-------------|--------------------|-------------------|-------------|--------------------|-------------------|
| Peck | Dec.2- | | | | | | |
| | " 30. | 60 | 15 | 2.14 | | | |
| | " 30- | | | | | | |
| | Jan.27. | 40 | 10 | 1.42 | 150 | 12.5 | 1.78 |
| | " 27- | | | | | | |
| | Feb.24. | 50 | 12.5 | 1.78 | | | |
| Senator | Dec.2- | | | | | | |
| | " 30. | 64 | 16 | 2.28 | | | |
| | " 30 | | | | | | |
| | Jan.2. | 40 | 10 | 1.42 | 186 | 15.5 | 2.21 |
| | " 27- | | | | | | |
| | Feb.24. | 82 | 20.5 | 2.92 | | | |
| Baroness's Girl | Dec.2- | | | | | | |
| | " 30. | 78 | 19.5 | 2.78 | | | |
| | " 30- | | | | | | |
| | Jan.27. | 66 | 16.5 | 2.35 | 242 | 20.16 | 2.88 |
| | " 27- | | | | | | |
| | Feb.24. | 98 | 20.45 | 3.5 | | | |
| | | | | | 196.66# | 16.05# | 2.29# |

These figures show the total and average amount of gain by each individual animal , and all during three successive periods.

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Table XXI.

Total Amount of Gain in Three Periods.

Table showing the total amount of gain by three successive periods.

| Name | Period | Gain
per
per-
iod. | Gain
per
per
week. | Gain
per
per
day. | Total
gain
in 12
weeks. | Av.
gain
per
week. | Av.
gain
per
day. |
|-----------------|-----------------|-----------------------------|-----------------------------|----------------------------|----------------------------------|-----------------------------|----------------------------|
| Peck | 1st.
4 w'ks. | 202 [#] | 505 [#] | 7.21 [#] | | | |
| Senator | 2nd.
4 w'ks. | 146 | 36.5 | 5.21 | 578 [#] | 48.16 [#] | 6.88 [#] |
| Baroness's Girl | 3rd.
4 w'ks. | 230 | 57.5 | 8.21 | | | |
| Average | 1st.
4 w'ks. | 67.33 | 16.83 | 2.4 | | | |
| | 2nd.
4 w'ks. | 48.33 | 12.16 | 1.7 | 192.66 | 16.05 | 2.29 |
| | 3rd.
4 w'ks. | 76.33 | 19.16 | 2.74 | | | |

The above table shows the total and average amount of gain by three animals per period, per week and per day. And, also, the final average gain of all for the whole period. The gain is quite variable in three successive periods of four weeks each, probably due more to the climatic condition than to the food itself. So the average daily gain during the whole period of trial was 2.29[#].

• 2000 9/10/00

• 2000 9/10/00 10:00

• 2000 9/10/00 10:00

• 2000 9/10/00

• 2000 9/10/00 10:00

• 2000 9/10/00 10:00

• 2000 9/10/00 10:00

• 2000 9/10/00 10:00

Table XXII.

The Amount of Feeding Stuff Consumed.

Table Showing the amount of feeding stuff consumed.

| Name | Time | Feed per animal daily. | | | | | |
|-----------------|----------|------------------------|-----------------|--------------|-----------------|-------------|-----|
| | | Av.w't. of the animal. | Av. daily gain. | Mixed grain. | Cut clover hay. | Sugar beet. | |
| Peck | 1st.p'd. | 1252.8# | 2.14# | 5.5# | 4.5# | 30# | |
| | 2nd " | 1314. | 1.42 | 4.5 | 4. | 45 | |
| | 3rd " | 1344.4 | 1.78 | 5. | 5. | 45 | |
| Senator | 1st.p'd. | 1344.8# | | 2.28# | 5.5# | 5.# | 30# |
| | 2nd " | 1393.6 | | 1.42 | 5. | 4.75 | 42 |
| | 3rd " | 1413.2 | | 2.92 | 5.25 | 5.25 | 42 |
| Baroness's Girl | 1st.p'd. | 1086.8 | 2.78# | 7.# | 6# | | 30# |
| | 2nd " | 1147.2 | 2.35 | 6.25 | 6. | | 39 |
| | 3rd " | 1208.5 | 3.5 | 7. | 6. | | 39 |

The above table shows the amount of feeding stuff consumed according to three different rations, in each period. There was a wide difference in the daily variation. However, the feed per animal, consumed in each period is practically the same, except sugar beets. Baroness's Girl shows better gain with the same amount of feed during the third period than in the second. The contents of this table will reveal to you a new insight of standard ration.

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Amount of Feeding Stuff Consumed by Period.

Table Showing the amount of feed consumed by each by periods.

| | Per four weeks. | | | per week. | | | Per day. | | |
|----------------------|-----------------------|-----------------|---------------------------|-----------|-------|------|----------|-------|------|
| Date | Cut
clover
hay. | Mixed
grain. | Sliced
sugar
beets. | Hay | Grain | Beet | Hay | Grain | Beet |
| For Peck. | | | | | | | | | |
| | lbs. | lbs. | lbs. | lbs. | lbs. | lbs. | lbs. | lbs. | lbs. |
| Dec. 2- | | | | | | | | | |
| " 30. | 126 | 154 | 840 | 31.5 | 38.5 | 210 | 5.5 | 4.5 | 30 |
| " 30- | | | | | | | | | |
| Jan. 27. | 112 | 126 | 1260 | 28. | 31.5 | 315 | 4.5 | 4. | 45 |
| " 27- | | | | | | | | | |
| Feb. 24. | 140 | 140 | 1260 | 35. | 35. | 315 | 5. | 5. | 45 |
| For Senator | | | | | | | | | |
| | lbs. | lbs. | lbs. | lbs. | lbs. | lbs. | lbs. | lbs. | lbs. |
| Same | 140 | 154 | 840 | 35. | 38.5 | 210 | 5.5 | 5. | 30 |
| as | | | | | | | | | |
| before | 133 | 140 | 1176 | 33.25 | 35. | 284 | 5.2 | 4.75 | 42 |
| | 147 | 147 | 1176 | 36.75 | 36.75 | 284 | 5.25 | 5.25 | 42 |
| For Baroness's Girl. | | | | | | | | | |
| | lbs. | lbs. | lbs. | lbs. | lbs. | lbs. | lbs. | lbs. | lbs. |
| Same | 168 | 196 | 840 | 42 | 49 | 210 | 7. | 6 | 30 |
| as | | | | | | | | | |
| before | 168 | 173 | 1092 | 42 | 47.25 | 273 | 6.25 | 6 | 39 |
| | 168 | 196 | 1092 | 42 | 49. | 273 | 7. | 6 | 39 |

The above table shows, as near as possible, the average amount of feeding stuff consumed for three animals, and each, during three periods of trial. That is to say, on an average each of them consumed

• Index of the names of the persons who have been named in the list

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Continued.

per day, 5.16# hay, 5.66# grain and 38# sugar beets to give 2.29# daily gain.

Table XXV.

Comparison of 84 days trial at Ontario and Michigan
Agricultural Colleges.

Feed for steer daily.

Roots fed

| | W't of
animal
at com-
mencement. | Daily
increase. | Hay | Bran | Pea
meal. | Roots. |
|--------------------|---|--------------------|------|------|--------------|--------|
| Sugar Beet | 1059 | 2.31 | 10.5 | 3 | 6.5 | 52 |
| Many lbs. | 1063 | 2.38 | 11.5 | 3 | 6.5 | 55 |
| Turnips | 1061 | 2.30 | 12. | 3 | 6.5 | 52 |
| Average | 1061 | 2.33 | 11.3 | 3 | 6.5 | 53 |
| Feed for 100# gain | | | 485 | 129 | 279 | 2275 |

Results of 84 days trial with sugar beet for cattle
feeding. - M. A. C.

| Roots fed. | W't of
animal Daily
at com- in-
monementcrease | | Feed per animal daily. | | | Name |
|---------------------|---|------|------------------------|--------|---------|--------------|
| | | | Hay | Grain | Roots | |
| Sugar Beet | 1220 | 1.78 | 4.5 | 5. | 40 | Peck |
| " " | 1308 | 2.21 | 5. | 5.25 | 38 | Sena-
tor |
| " " | 1042 | 2.88 | 6. | 6.75 | 36 | B's
Girl |
| | 1190 | 2.29 | 5.16 | 5.66 | 38 | |
| Feed for 100# gain. | | | 225.33 | 247.11 | 1688.88 | |

In comparing these two tables we find that it required a less amount of feed to produce the same amount of gain in our trial that it did at Ontario Agricultural College Experiment Station. As you notice the average weight of the animals was about 43# greater than those of the Ontario College yet when under these conditions we see clearly that it took only on an average 225.33# of hay, 247.11# of grain and 1688.88# of sugar beets for 100# of gain live weight, at M. A. C., but on the other hand at the Ontario Agricultural College it took 485# of hay, 129# bran, 279# pea meal and 2275# of roots, for the same amount of gain. Our result seems to be remarkable when compared with that of the Ontario College.

addition of the following information:

1. The following information:

2. The following information:

3. The following information:

4. The following information:

| Item | Quantity | Unit | Value |
|-------------------------------|----------|------|-------|
| 1. The following information: | 1 | Unit | 1.00 |
| 2. The following information: | 1 | Unit | 1.00 |
| 3. The following information: | 1 | Unit | 1.00 |
| 4. The following information: | 1 | Unit | 1.00 |

5. The following information:

6. The following information:

7. The following information:

8. The following information:

9. The following information:

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11. The following information:

12. The following information:

13. The following information:

14. The following information:

15. The following information:

Total.

The amount of feed consumed for 100# gain, and cost of the same during 12 weeks trial.

The following table shows that it cost \$9.41 to produce 150# gain, live weight, for Peck, \$9.91 to produce 186# gain, live weight, for Senator and \$10.06 for Baroness's Girl to produce 242# gain. Also, on an average, it cost only \$9.79 to produce 196.66# of flesh during the whole period. Hence the cost is \$5.26 per 100# gain.

Table XXVI.

Table showing the total amount of feed consumed for 100# gain and cost of the same.

| Cost of the same. | | Gain | Gain | Total | | | | Cost |
|-------------------|-----------------------|------------------------------|---------------------------|-----------------------------------|------------------------------|----------------------------|------------------------------|---------------------|
| Name | Feed-
ing
stuff | in 84
days
per
head | per
head
per
day | cost
of
food
per
head | Grain
for
100#
gain | Hay
for
100#
gain | Roots
for
100#
gain | for
100#
gain |
| | | head | day | head | gain | gain | gain | gain |
| | | lbs. | lbs. | | lbs. | lbs. | lbs. | |
| Peck | O.M.Oil
Meal, W.B | 150 | 1.78 | \$9.41 | 280 | 252 | 2240 | \$6.13 |
| Senator | S.Beet
C.Meal | 186 | 2.21 | \$9.91 | 237.09 | 225.8 | 1716.12 | \$5.33 |
| B.Girl | " " | 242 | 2.88 | 10.06 | 234.29 | 208.26 | 1249.58 | \$4.16 |
| Average | | 192.66 | 2.29 | \$9.79 | 250.46 | 228.68 | 1401.90 | \$5.26 |

Continued.

These calculations are made according to the following prices.

| | | Per ton. | Per pound. |
|-------------|--------|----------|------------|
| Corn Meal | ⓐ----- | \$14.00 | .7¢ |
| Oil Meal | ⓐ----- | \$25.00 | 1.25¢ |
| Oat Meal | ⓐ----- | \$25.00 | 1.25¢ |
| Wheat Bran | ⓐ----- | \$12.50 | .625¢ |
| Clover Hay | ⓐ----- | \$ 8.00 | .4¢ |
| Sugar Beets | ⓐ----- | \$ 2.50 | .125¢ |

Table XXVII.

Economic value of the trial.

| Name | W't at
the com-
mencement | Cost
for
each | Cost of
food
during
the
trial | Their
value,
market
value | Profit
or
loss. |
|-----------------|---------------------------------|---------------------|---|------------------------------------|-----------------------|
| | lbs. | | | | |
| Peck | 1200 | \$60. | \$9.41 | \$66.82 | -\$2.59¢ |
| Bareness's Girl | 1000 | \$39.52 | \$10.06 | \$59.90 | \$10.32¢ |
| Average | 1100 | \$49.76 | \$9.73 | \$63.36 | \$3.86 |

The above table shows that the average cost of each animal at the beginning of the trial was \$49.76¢, weighing 1100, and the average cost of the feed per animal for the whole period was \$9.73. They brought in, after deducting all expenses incurred for their shipment and sale, on an average \$63.36¢, clear money, giving an average net profit of \$3.86¢ per animal. Senator is not taken into account in this calculation because he was not sold, but he was kept for the Chicago Stock Show in 1900 that will take place some time during the next fall.

These calculations are based on the following assumptions:

| Year | Cost | Revenue |
|------|--------|---------|
| 1970 | 100.00 | 100.00 |
| 1971 | 100.00 | 100.00 |
| 1972 | 100.00 | 100.00 |
| 1973 | 100.00 | 100.00 |
| 1974 | 100.00 | 100.00 |
| 1975 | 100.00 | 100.00 |

Continued on next page

These calculations are based on the following assumptions:

| Year | Cost | Revenue |
|------|--------|---------|
| 1976 | 100.00 | 100.00 |
| 1977 | 100.00 | 100.00 |
| 1978 | 100.00 | 100.00 |
| 1979 | 100.00 | 100.00 |
| 1980 | 100.00 | 100.00 |

| Year | Cost | Revenue |
|------|--------|---------|
| 1981 | 100.00 | 100.00 |

| Year | Cost | Revenue |
|------|--------|---------|
| 1982 | 100.00 | 100.00 |

| Year | Cost | Revenue |
|------|--------|---------|
| 1983 | 100.00 | 100.00 |

These calculations are based on the following assumptions:

1. The cost of the project is \$100.00 per year.

2. The revenue from the project is \$100.00 per year.

3. The project is expected to last for 10 years.

4. The project is expected to be profitable.

5. The project is expected to be sustainable.

6. The project is expected to be scalable.

7. The project is expected to be replicable.

Continued.

However, my belief is, that Senator would have increased rather than decreased our profit. The animals were sold by Carrier and Robinson to A. W. Smith, at Buffalo, March 12th, 1900. Had the market been favorable for beef, we would have made an average net profit for each animal of at least \$15.00 However, we believe, as far as business is concerned, it was profitable to ship the animals as soon as they were ready for the market. Though it always pays to put the animals on the market as soon as they are all in good condition. This will please both the purchaser and seller, and moreover, it will create a good reputation which will always bring higher prices than otherwise. In the first case the stockman will go (follow) the market, and in the other, the market will seek the stockman. The last condition should be always preferred.

Table XXVIII.

Live and Dressed Weights of the Steers and Heifer.

Live and dressed weights of Aberdeen Angus steers and heifer
fed at M. A. C.

| Name | W't in
Buffalo | Dressed
beef | Dressed
fat &
tallow% | Dressed
beef fat
& tallow% | Dressed
beef% |
|-----------------|-------------------|-----------------|-----------------------------|----------------------------------|------------------|
| Roxie | 1680# | 1083# | 145# | 73.93% | 64.46% |
| Wiggins | 1660 | 988 | 145 | 68.25 | 59.51 |
| Peck | 1280 | 810 | 102 | 71.25 | 63.28 |
| Johnson | 1050 | 630 | 80 | 67.61 | 60.00 |
| Baroness's Girl | 1230 | 714 | 84 | 64.87 | 58.86 |

Continued.

Percent of fat and tallow in relation to.

| Name | Live weight | Dressed beef fat and tallow | Dressed beef |
|-----------------|-------------|-----------------------------|--------------|
| Roxie | 8.62# | 11.80# | 13.30# |
| Wiggins | 8.73 | 12.79 | 14.67 |
| Peck | 7.96 | 11.18 | 12.59 |
| Johnson | 7.61 | 11.26 | 12.71 |
| Bareness's Girl | 6.82 | 10.52 | 11.76 |

The above table was prepared by Mr. Ferguson, Canadian, with the consent of Professor Mumford for the M. A. C. Record, and published in No. 29, Vol. 5, April 10th, 1900 with the following remarks,-

"During the past week the Farm Department received and tabulated the data obtained in connection with the beef steers and heifer fed at the farm this winter, and subsequently sold on the Buffalo market. While the showing of all animals is good, that of Roxie is exceptional, in that, if not actually the best on record it is very close to the champion. From Secretary Coburn's "The Beef Steer," we learn that the best record of "Net Dressed Meat" given, was that of the pure bred Shorthorn Steer, Clarence Kirk Livingston, which dressed 70 per cent. Roxie dressed 73.93 percent."

Theory of the Profit of Feeding Finished Cattle: -

Suppose we had sold Senator at the beginning of our trial, other things being equal, we would have received $\frac{1}{2}$ cent less for each pound of flesh than we would after having increased his weight by 200#.

For example: -

| | |
|---|----------------|
| Animal weight at commencement was----- | 1200# |
| It was sold 5.5¢ per pound live weight----- | 5.5 |
| Total amount received(expenses are-----) | <u>\$66.00</u> |

not taken into consideration).

| | |
|--|----------------|
| The animal weight after trial was----- | 1400# |
| It was sold at 6¢ per pound live weight----- | 6¢ |
| Total amount received----- | <u>\$84.00</u> |

Now, suppose, our trial was not profitable. That is to say, it cost us six cents to increase per pound flesh, that is what we got for it, but mark you even under this condition, we made \$6.00 net profit. Because if we had sold the animal at the commencement we could have gotten only \$66.00 but we now receive \$72.00,-

that is,

| | | |
|------------|------|--------------------|
| 1200# | 5.5¢ | \$66.00 |
| 1200# | 6 ¢ | \$72.00 |
| Net profit | | <u>\$6.00</u> |

In this calculation the fluctuation of the price of beef on the market, and the unfavorable condition for the feeding of cattle are not taken into consideration.

[illegible][illegible]

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[illegible]

1. The first of these is the fact that the United States has a large and growing population of people who are not citizens of the United States. This is a result of the large number of people who have immigrated to the United States in recent years, and the fact that many of these people are not naturalized citizens.

[illegible]

6. The Board of Directors shall have the authority to make any amendments to the Charter of the Corporation, subject to the approval of the stockholders of the Corporation.

Remarks and Suggestions.

This trial, though not very extensive in nature, reveals some facts in regard to the rations, average gain per day, percent of dressing, and the effect of age and condition upon the rate of gain that are contrary to the books. The question then is, not simply to deny the results thus obtained with improper criticism, but proceed to disprove or establish them with a trial that will be comparatively extensive. I believe that such an experiment will prove to be very interesting and valuable both scientific and practical. Stockmen of the state, We do not question that the results obtained from our trial can be altered or modified more or less under different climatic and non-climatic conditions. Yet, I insist upon the proposition that the facts observed from these results will remain always unchanged. I do not mean by this at all that a Standard Ration is useless, on the contrary it may be useful at certain periods at certain times, but not essential.

Hence I suggest to our Experiment Station that they allow some conscientious student to take two lots of steers, five animals in each lot, as nearly alike as possible in all points and conditions and feed lot No. 1, according to American and German Standard Rations, but the lot No. 2, according to the most economical rations regardless of the ration principle itself. The experiment should run at least two years under the management of a single person having in mind the following principles, -

1. Be kind with the steers at all times and in all places.
Avoid harsh expressions and profanity while feeding or cleaning.
 2. Be conscientious and manly in your feeding.
 3. Be honest, accurate and particular in your records.
-
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I am very sorry to hear that you are having trouble with your eyes. I hope they will get better soon. Please take good care of them.

Yours truly,
John Doe

and will be a great help to the people of the world. I am sure that the people of the world will be very grateful to you for the help you have given them. I am sure that the people of the world will be very grateful to you for the help you have given them.

- 1
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Continued.

4. Observe the principles of feeding - "Be always on time" - as promptness in feeding is essential.
- b. "Avoid sudden changes. Increase and decrease your grain rations gradually."
- c. "Water the animal at least twice a day."
- d. "Provide some exercise for the animal according to the climatic conditions."

Note:- I prefer not to feed the grain, hay and roots at the same time. It is better to feed one kind at a time, because in the first place you will be able to keep accurate record of wasting stuffs, and secondly animals will not be apt to waste so much.

Summary.

Facts observed:-

1. The kind treatment of the feeder is much more important in feeding stock, especially at the end of the fattening periods, than the feed itself.
2. Regularity in feeding is essential for obtaining the best results and the proper condition of the animal.
3. It pays, and moreover it is necessary, to be conscientious in stock feeding.
4. Do not feed the animal according to your habit, but according to the appetite and climatic conditions.
5. Standard ration is not necessary for an economical gain, it may be beneficial, but not essential.
6. A finished steer can be fed more or less profitably with proper care.
7. Under favorable conditions the time of watering - before or after meals - will not effect the rate of gain.
8. The animal should be watered at least twice a day.
9. Cleanliness effects the rate of gain. The cleaner the animal, the stall and the surroundings are, other things being equal, the greater the average gain, and vice versa.

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971).

- "right up and do it" - direct to participating of exercise. • 4

• Influence at subject of meeting on 11/11

there, and everybody has a different "right to life" . . .

• Wife's name not known

"...and the people of the world are all of them."

— 150 —

"... of them sit

• What is the purpose of the document?

10-10-68 10:00 AM

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2001 年 12 月 10 日 星期三 12:00

• **What is the purpose of the study?** The purpose of the study is to determine the effect of the use of a mobile phone on the performance of a simulated driving task.

available to the public. The information is available to the public in the following manner:

11-2-1948 Fri

the 1990s, the number of people in the world who are under 15 years of age is expected to increase by 1.5 billion, from 1.1 billion in 1990 to 2.6 billion in 2010. The number of people aged 65 and over is expected to increase by 1 billion, from 350 million in 1990 to 1.4 billion in 2010. The number of people aged 15-64 is expected to increase by 1.5 billion, from 1.1 billion in 1990 to 2.6 billion in 2010. The number of people aged 65 and over is expected to increase by 1 billion, from 350 million in 1990 to 1.4 billion in 2010. The number of people aged 15-64 is expected to increase by 1.5 billion, from 1.1 billion in 1990 to 2.6 billion in 2010.

...and the other is the *reduction of the number of people* who are in the *unemployment* state.

[illegible]

Journal of Interpersonal Violence

Journal of Management Studies, 20(6), 791-806.

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...and the fact that the ...

the following information for [redacted] [redacted]

10. What is the purpose of the study? \$

10. The following is a list of the names of the persons who have been appointed to the various committees of the Board of Directors of the Corporation:

Continued.

10. Weather affects the rate of gain as well as increases or decreases the amount of feed. The warmer the weather the less the consumption of feed and vice versa.

Points of interest:-

1. The average daily gain for each animal for the whole period of our experiment was 2.29#.

2. The average cost for 100# gain, live weight, was \$5.26¢.

3. The average amount of feed consumed per day for each animal was 5.16# cut clover hay, 5.66# grain and 38# sugar beets.

4. The highest ration fed was as follows:-

Dry matter 16.46#, protein 1.54#, carbo-hydrates 9.84#, ether extract .36#. This ration gave a daily gain of 3.5# during the third period of our trial.

5. The steers gained 158# per day when they were about of an average a year old, and 1.88# when two years old.

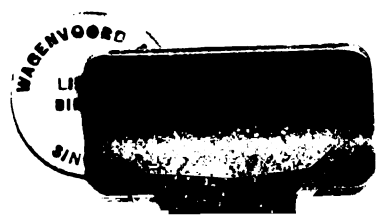
6. Peck dressed 71.25 percent, and Baroness's Girl 64.87. Senator would have exceeded both of these, and perhaps equaled Roxie, if not exceeded her. She dressed 73.93 percent.

7. The average net profit of each animal was \$3.86¢ for the whole period.

8. The average mean ration of all animals for the whole period was 14.47# dry matter, 1.41# protein, 8.7# carbo-hydrate and .37# ether extract.

1. The first of these is the fact that the number of cases of disease is increasing.
2. The second is the fact that the number of cases of disease is increasing.
3. The third is the fact that the number of cases of disease is increasing.
4. The fourth is the fact that the number of cases of disease is increasing.
5. The fifth is the fact that the number of cases of disease is increasing.
6. The sixth is the fact that the number of cases of disease is increasing.
7. The seventh is the fact that the number of cases of disease is increasing.
8. The eighth is the fact that the number of cases of disease is increasing.
9. The ninth is the fact that the number of cases of disease is increasing.
10. The tenth is the fact that the number of cases of disease is increasing.

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