**Table 1. Relative Organ Weight (Percent Body Weight) or Tissue Volume for Cattle (including Beef Cattle and Dairy Cows)**

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| --- | --- | --- | --- | --- | --- |
|  | **Mean** | **SD** | **Number of Animals** | **Number of Studies** | **References** |
| Adrenals | 0.006 | 0.002 | 716 | 3 | 1-3 |
| Adipose Tissue | 12.27 | 5.21 | 301 | 9 | 4-11, 48 |
| Blood | 4.31 | 0.87 | 893 | 9 | 1, 12-19 |
| Bone | 8.66 | 1.49 | 40 | 2 | 11,20 |
| Brain | 0.08 | 0.01 | 812 | 2 | 1,21 |
| GI Tract | 5.98 | 1.28 | 107 | 6 | 4,6,14,22-24 |
| Reticulorumen | 1.76 | 0.45 | 339 | 7 | 15,16,22,25,26,27,28 |
| Reticulum | 0.26 | 0.07 | 696 | 1 | 1 |
| Rumen | 1.75 | 0.35 | 869 | 4 | 1,14,29,30 |
| Omasum | 0.85 | 0.22 | 948 | 6 | 1,15,16,22,25,27 |
| Abomasum | 0.37 | 0.10 | 948 | 6 | 1,15,16,22,25,27 |
| Intestines |  |  |  |  |  |
| Small Intestine | 1.06 | 0.24 | 1158 | 10 | 1,14-17,22, 25,27,29,31 |
| Large Intestine | 0.78 | 0.21 | 919 | 8 | 1,14-17,22,25,31 |
| Caecum | 0.08 | 0.01 | 168 | 3 | 17,25,27 |
| Colon | 0.39 | 0.02 | 93 | 1 | 27 |
| Heart | 0.40 | 0.07 | 1828 | 28 | 1-4,14-18,22,24,26-42 |
| Kidneys | 0.21 | 0.04 | 2159 | 29 | 1-4,6,14-20,22,24-34, 35,37,40,42,43 |
| Liver | 1.23 | 0.21 | 2256 | 32 | 1-4,6,14-20,23-31,32,33 36,37,40,41,43-46 |
| Lungs | 0.77 | 0.20 | 1773 | 21 | 1,2,4,32,15-18,22,24,26-30,33,34,37-39,42 |
| Muscle | 36.10 | 11.73 | 83 | 2 | 11,47 |
| Pancreas | 0.09 | 0.02 | 1319 | 12 | 1,32,15,17,22,26,24,27,30,38,39,43 |
| Spleen | 0.18 | 0.05 | 1642 | 22 | 1,3,4,10,14-18,22,24-28,30,32-34,39,41,45 |
| Thyroid | 0.006 | 0.002 | 696 | 1 | 1 |
| Thymus | 0.030 | 0.018 | 728 | 3 | 1,24,26 |
| Rest of Body | 29.67 |  |  |  |  |

Note: The studies involved in the organ volume calculations are 1. Matthews et al. (1975); 2. Buntyn et al. (2017); 3. Garrett et al. (1968); 4. DiCostanzo et al. (1991); 5. Velazco et al. (1997); 6. Andrew et al. (1994); 7. Robelin et al. (1981); 8. De Paula et al. (2013); 9. Fernades et al. (1996); 10. Sainz et al. (1995); 11. Keane (2011); 12. Hansard et al. (1953); 13. Larsen et al. (2017); 14. Rumsey et al. (1996); 15. Long et al. (2010); 16. Rotta et al. (2015); 17. McCurdy et al. (2010); 18. Hansard (1956); 19. Swett et al. (1933); 20. Faulkner et al. (1989); 21. Ballarin et al (2016); 22. Sharman et al. (2013); 23. Sprinkle et al. (1998); 24. Schumann et al., (2007); 25. Reynolds et al. (2004); 26. Remling et al. (2017); 27. Mader et al. (2009); 28. Fitzsimons et al. (2014); 29. Jenkins and Ferrell, (1997); 30. Wood et al. (2013); 31. Scheaffer et al. (2001); 32. Terry et al. (1990); 33. Early et al. (1990); 34. Schlegel et al. (2006); 35. Olivares et al. (2019); 36. McEvoy et al. (1998); 37. Fiems et al. (1993); 38 Long et al. (2012); 39. Talton et al. (2014); 40. Murphy and Loerch (1994); 41. Bourg et al. 2012 (2012); 42. Sainz and Bentley (1997); 43. Burciaga-Robles et al. (2010); 44. Moseley et al. (1992); 45. Lawler et al. (2004); 46. Robertson et al. (1967); 47. Shahin and Berg, (1985a); 48. Fonseca et al. (2017).