

SUMWORDS: RECORD SCORES AND ANAGRAMS

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I first present a list of just over a hundred sumgrams (words with equal numerical value) of the longest words I was able to conquer. Note that one pair of reasonably common words could be construed as opposites: EXTRAORDINARINESS and STRAIGHTFORWARDNESS. Note also that all pairs of words with endings -IST and -ISMS are sumgrams, as the values of M and S sum to the value of T. I have included the longest such specimens in my list.

- 80.5 apocalyptically, diffrangibility
 86.3 homochlamydeous, lexicographical
 88.3 microphotograph, vicissitudinous
 89.0 anthropopsychic, inadmissibility, compressibility, photoconducting
 89.5 hypnotisability, quintuplication
 90.7 dolichocephalic, micromicrocurie
 91.5 jurisprudential, Marsipobranchii
 91.6 amaryllidaceous, bacchanalianism, appropinquation
 91.7 excommunication, numismatologist, untrustworthily
 91.9 circumforaneous, diamagnetically, disquisitionary, sanctimoniously
 92.7 arboriculturist, chamberlainship
 93.1 ankylostomiasis, condescendingly
 93.5 distinguishable, geomorphologist, hobbledehoyhood
 94.0 cholecystectomy, Chondropterygii
 94.2 allotriomorphic, circumincession, destructibility
 94.4 circumstantials, communalisation, dieselhydraulic, homeopathically, idiosyncratical
 95.0 caprifoliaceous, carpometacarpus
 95.4 disgracefulneee, mistrustfulness
 95.8 cerebrovascular, diaphragmatitis
 96.6 ichthyodorylite, lithochromatics, objectification
 96.7 paradoxicalness, phantasmagorical
 96.9 disadvantageous, distrustfulness, ecclesiological
 97.4 argumentatively, chondrification
 97.6 dysteleological, justifiableness
 97.9 disinflationary, formularisation, ichthyodorulite
 98.1 acknowledgement, developmentally
 98.4 compassionately, decalcification
 98.9 geochronologist, inappropriately, malassimilation, micromillimetre, photomechanical
 99.1 antimonarchical, coconsciousness, discommendation, schoolmastering
 100.0 anthropopathism, epistemological
 100.2 diversification, multiarticulate, neighbourliness
 100.4 anticlericalism, complementarity, ergatandromorph, helminthologist
 100.6 acquisitiveness, democratifiable
 100.7 disagreeability, illustriousness, notwithstanding
 100.9 extraordinarily, microdissection

- 101.4 acclimatisation, antichristianly, bioastronautics, doctrinarianism, Frenchification, lophobranchiate
- 101.7 asclepiadaceous, Christadelphian
- 101.9 bioluminescence, decarburisation
- 102.0 commendableness, diaheliotropism
- 102.4 discretionarily, dissatisfaction, intransmissible
- 102.8 anacreontically, chrestomathical, demonstratively
- 103.4 authoritatively, determinability, illimitableness, immortalisation
- 103.5 anthroposophist, computerisation
- 103.7 amphitheatrical, antivivisection
- 104.2 discontinuation, disorganisation
- 104.6 acknowledgements, adventurousness
- 104.8 apophthegmatise, conceivableness
- 105.0 historiographer, monocotyledones
- 105.2 annihilationism, cinematographer
- 105.4 circumstantiate, decolourisation
- 106.5 introsusception, miniaturisation
- 107.3 apophthegmatists, archiepiscopate
- 107.6 Callitrichaceae, categoricalness
- 107.8 disafforestation, fashionableness
- 107.9 acclimatisations, anthropocentric
- 108.1 distastefulness, fragmentariness
- 108.8 historiographical, uncompromisingness, impressionability
- 109.0 cinematographical, comprehensibility
- 111.1 appropriateness, decontamination
- 111.3 anaesthetically, apophthegmatises
- 112.4 Aristotelianism, departmentalisms
- 113.6 electroconvulsive, electrometallurgy
- 113.9 consubstantialisms, consubstantialist
- 114.3 overmultiplication, oversimplification
- 116.2 hydrotherapeutics, unconstitutionally
- 116.4 canisterisation, departmentalise
- 117.7 congregationalisms, congregationalist
- 120.3 exhibitionistically, schizophrenetically
- 120.4 consubstantialists, contradistinction
- 121.7 constitutionalisms, constitutionalist
- 122.1 electrocardiograms, physiotherapeutics
- 122.2 electrocardiograph, intercommunication
- 122.4 gentlewomanliness, underconsciousness
- 122.8 anthropomorphitisms, disproportionately, electromechanical
- 123.6 cheiropterophilous, unconscionableness
- 123.8 incomprehensibility, uncontrollableness
- 124.4 argumentativeness, conscientiousness
- 124.7 incompressibleness, parallelogrammatical
- 124.9 comprehensiveness, consubstantiations
- 125.2 incommunicativeness, transmogrifications
- 126.5 antivivisectionisms, antivivisectionist
- 126.7 antivaccinationisms, antivaccinationist
- 127.9 extraordinariness, straightforwardness
- 128.8 theophilanthropisms, theophilanthropist
- 129.6 irreconcilableness, syncategorematically
- 129.9 comprehensibleness, indestructibleness
- 130.2 Constantinopolitan, undenominationalism

- 130.4 anaesthesiologist, authoritativeness
 131.4 irreproachableness, transubstantiation
 132.6 disenfranchisement, incommensurateness, inconsiderableness
 133.2 antivaccinationists, quintessentialising
 133.6 establishmentarian, superintendentship
 134.1 quintessentialised, tetrakisshexahedron
 134.4 electrometallurgist, gastroenterologist
 135.4 dissatisfactoriness, electrometallurgical
 136.0 overspecialisations, unsophisticatedness
 137.1 lieutenantcolonelcy, thermoluminescences
 138.2 adrenocorticotrophic, electrodepositions
 139.1 disenfranchisements, indeterminableness
 139.7 incomprehensiveness, procrastinateness
 139.9 philoprogenitiveness, unostentatiousness
 140.6 tetrakisshexahedrons, undemonstrativeness

If one assumes that the upper limit on the numerical value of any word is 200, then there are only 2000 different possible values that words can have, stretching from 0.1 to 200 in steps of 0.1. Assuming that Chambers English Dictionary, has about 250,000 words or, say, 500,000 when plurals, verb forms, comparatives and superlatives are taken into account, then these 500,000 words are spread over the 2000 sumgram values available. So, on average, there are 250 words per individual numerical value. Given the paucity of words with particularly high or low numerical values, there must be instances of well over a thousand words for certain numerical values. Challenge: find a numerical value for which there are more than one thousand words. Another challenge: find the highest numerical value at the low end of the range, and the lowest numerical value at the high end of the range, for which there exist no words.

I conclude with a table of record high-scoring and low-scoring words of various lengths found in Chambers.

	Low-scoring Words	High-scoring words
2	KY (2.5)	EE (26)
3	ZUZ (3.5)	TEE (35)
4	BUZZ (5.0)	TETE (44)
5	BUZZY (5.2)	TEENE (55.5)
6	JUGFUL (15.6)	TEEHEE (67)
7	ZYMURGY (18.2)	TEEHEES (73.5)
8	ZIGZAGGY (21.9)	RESETTER (77.5)
9	BUZZINGLY (27.6)	RESETTERS (84)

If hyphenated words are allowed, improvements are possible with JUG-JUG (9.6), BUZZ-WIG (15.9), and TETE-A-TETE (96.5).