

[TABLE OF CONTENTS](#)[ARTICLE I General Provisions](#)[ARTICLE II Administration and Enforcement](#)[ARTICLE III System Contractor License](#)[ARTICLE IV General Technical Requirements](#)[ARTICLE V Component Design Criteria](#)[ARTICLE VI Other Treatment Systems](#)[ARTICLE VII Operation and Maintenance](#)[ARTICLE VIII General Prohibitions and Penalties](#)[ARTICLE IX Variance Procedure](#)[APPENDIX](#)

APPENDIX 30-A

**QUANTITIES AND BOD STRENGTH OF SEWAGE
FOR VARIOUS TYPES OF USES**

<i>Type of Establishment</i>	<i>Gallons/person/day (Average) (unless otherwise stated)</i>	<i>Lbs BOD5/person/day (unless otherwise stated)</i>
Residential		
Single-family dwellings (two people per bedroom)	75	.20
Separate distribution of flows – individual residential use		
Bath/shower	14.7	.014
Dishwasher	1.8	.002
Kitchen sink	4.4	.045
Additional for garbage grinder	1.4	.052
Laundry washer	19.5	.037
Lavatory	8.4	.021
Water closet	24.8	.029
Hotels & motels – per room (without private baths)	50	.15
Hotels & motels – per room (with private baths)	75	.15
Multiple-family dwellings or apartments	75	.20
Boarding and rooming houses	50	.15
Mobile home parks	75	.20
(per space)	300	.80
Commercial		
Airports (per passenger)	5	.02
Airports (per employee)	10	.06
Barber and beauty shops (per chair)	100	.70*
Bowling alleys (per lane – (toilet wastes only)	5	.03*
Bus service areas (not including food)	5	.02
Country clubs (per member)	30	.02
Country clubs (per employee)	20	.06
Dentist offices (per nonwet chair)	50	.14*
Doctors offices (per doctor)	250	.80*

Fairgrounds (per person attending)	5	.02
Factories and plants (exclusive of industrial wastes)		
(per employee per 8-hour shift – no showers)	20	.05
(per employee per 8-hour shift – showers provided)	35	.08
Food service establishments (per seat – including employees)		
restaurant (open 1 or 2 meals)	50	.06/meal served
24-hour restaurant	75	.07/meal served
restaurant with paper service only	25	.01/meal served
additional for bars and cocktail lounges	30	.02
drive-in restaurant (per car space)	50	.02
Kennels (per dog) boarding and grooming	30	.20
Kennels, sanitation only (greyhound, etc.)	10	.06*
Laundries, self-service (per commercial washer)	400	.75
Office buildings (per employee per 8-hour shift)	15	.06
Stores and shopping centers (per square foot of retail space)	.1	.01*
Service stations (per toilet fixture)	250	.50*
Stadiums, race tracks, ball parks (per seat)	5	.02
Theaters (movie, indoor, or auditorium)	5	.02
Work or construction camps (semi-permanent - with flush toilets)	50	.17
Work/construction camps (semi-permanent - without flush toilets)	35	.02
Institutional (does not include kitchen wastewater flows)		
Churches (not including food)	5	.01
Hospitals (per bed space)	250	.20
Nursing homes (per bed space)	100	.17
Schools, boarding	100	.17
Schools, day (without cafeterias, gym or showers)	15	.04
Schools, day (with cafeterias, no gym or showers)	20	.08
Schools, day (with cafeterias, gym and shower)	25	.10
Schools, day (additional for school workers)	15	.06
Recreational and Seasonal		
Camps, day (no meals served)	15	.12
Camps, luxury resort	125	.17
Camps, resort (night and day)	50	.12
Campground (seasonal occupancy – per unit)**	50	.12
Public park (during hours when park is open)		
flush toilet (per fixture per hour)	36	.04 lbs./fixture
urinal (per fixture per hour)	10	.01 lbs./fixture
shower (per fixture per hour)	100	.10 lbs./fixture

faucet (per fixture per hour)	15	.04 lbs./fixture
Swimming pools and bathhouses	10	.06
Travel trailer parks (with individual water and sewage hookup - per unit)**	50	.12
Travel trailer parks (without individual water and sewage hookup – per unit)**	50	.12

* = BOD levels needing further verification

** = Laundry facilities are to be calculated on a per-commercial-washer basis in accordance with other elements of this table.

(Weld County Code Ordinance 2005-5)

APPENDIX 30-B

WELD COUNTY TABLE OF MINIMUM HORIZONTAL DISTANCES IN FEET BETWEEN COMPONENTS OF A SEWAGE DISPOSAL SYSTEM INSTALLED AFTER NOVEMBER 15, 1973, AND PERTINENT GROUND FEATURES

	<i>Spring, Wells, Suction Lines</i>	<i>Potable Water Supply Line</i>	<i>Potable Water Supply Cistern</i>	<i>Dwelling or Occupied Building</i>	<i>Property Lines, Subsoil Drains Piped or Lined Irrigation Ditches</i>	<i>Lake, Pond</i>	<i>Watercourse, Irrigation Ditch or Stream</i>	<i>Dry Gulches, Swales, Gullies</i>
Absorption Trench or Bed Sand Filter, Sub-surface Dispersal System	(3) 100	(4)(2) 25	25	20	10	100	(3) 50	(3) 25
Unlined Sand Filter in Soil With a Percolation Rate Slower than 60 Minutes per Inch	100	(4)(2) 25	25	15	10	25	25	15
Unlined or Partially Lined Evapotranspiration System, or Surface Disposal System Other than Aerosol	100	(4)(2) 25	25	15	10	25	25	15
Lined Sand Filter	60	(4)10(2)	25	15	10	25	25	10
Lined Evapotranspiration Field	60	(4)10(2)	25	15	10	25	25	10
Vault Privy	50	(4)10(2)	25	15	10	25	25	10
Septic Tanks, Treatment Plants, Dosing Tanks, Vaults	(2) 50	(4)(2) 10	25	(1) 5	10	50	50	10
Building Sewer or Effluent Lines	(2)(4) 50	(4)(2) 10	(4) 25	0	(2)(4) 10	(4) 50	(2)(4) 50	(2)(4) 10

NOTE: The minimum distance shown above shall be maintained between the system components and the physical features described. Where soil, geological or other conditions warrant, greater distances may be required by the Board of Health or by the Water Quality Control Commission pursuant to Section 25-8-206, C.R.S., in accordance with the authority prescribed by law and rules and regulations implemental of said section. Components which are not watertight should not extend into areas of the root system of nearby trees. For repair or upgrading of existing systems where the size of lot precludes adherence to these distances, repaired facility shall not be closer to water supply components than the existing facilities. For new systems, variances may be given from these distances, but shall not be closer than the CDH distances.

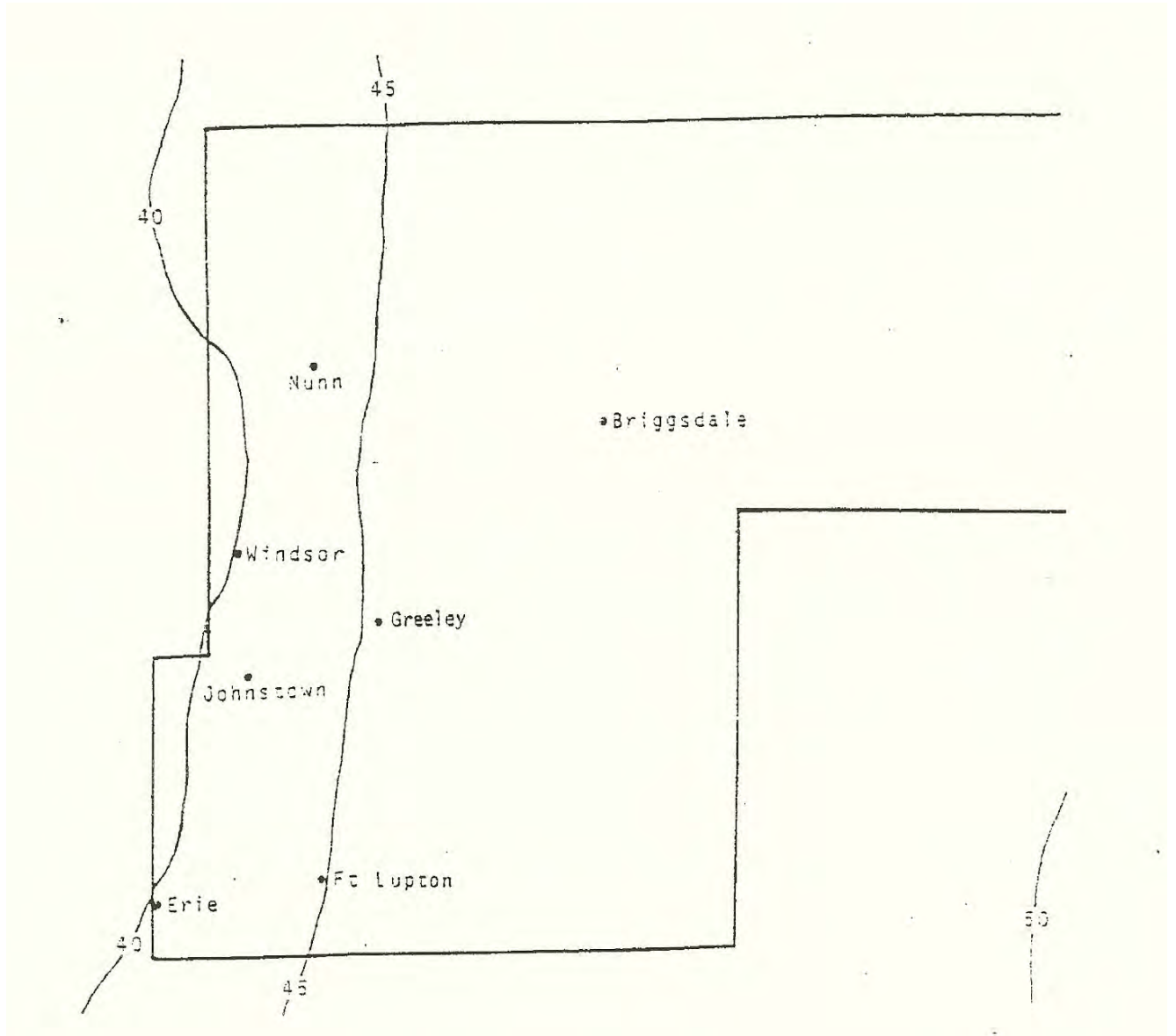
- (1) Distance shown shall not apply to treatment plants or effluent lines where recycling is permitted.
- (2) Crossings or encroachments may be permitted at the points as noted above, provided that the water conveyance pipe is encased for a minimum distance of 10 feet on each side of the crossing. A length of pipe shall be used with a minimum Schedule 40 rating of sufficient diameter to easily slide over and completely encase the water conveyance. Ridged end caps of a least Schedule 40 rating must be glued or secured in a watertight fashion to the ends of the encasement pipe. A hole of sufficient size to accommodate the end caps shall be sealed with an approved underground sealant compatible with the piping used.
- (3) Add 8 feet additional distance for each 100 gallons per day of design flow over 1,000 gallons per day as specified in the table, unless it can be demonstrated by a registered professional engineer or certified professional geologist that a mechanical or natural barrier will prevent contamination.
- (4) Encroachments may be permitted, provided that the water or wastewater conveyance pipe is encased as in (2) above, specified in the table.

(Weld County Code Ordinance 2005-5)

APPENDIX 30-C

ANNUAL FREE WATER SURFACE EVAPORATION MAP OF WELD COUNTY
(ADAPTED FROM NOAA TR NWS 33)

UNITS: INCHES/YEAR

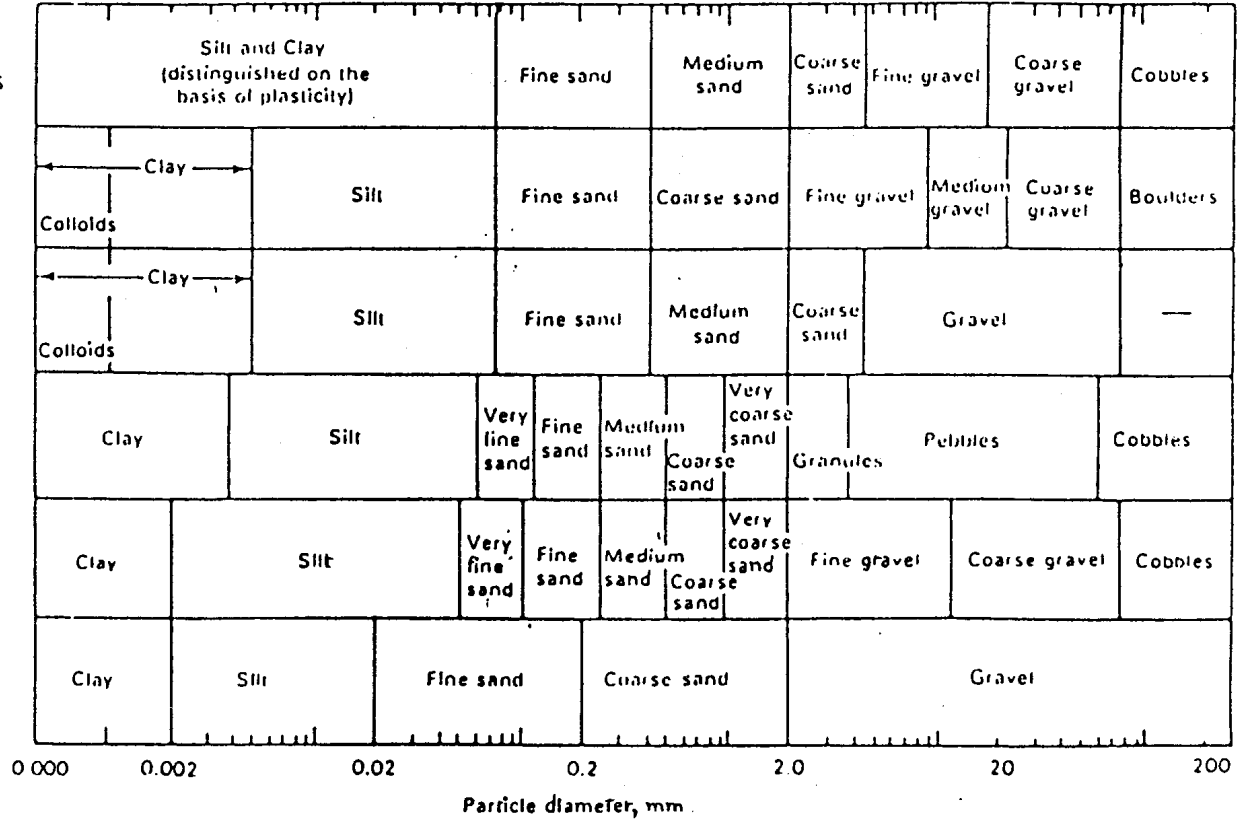


(Weld County Code Ordinance 2005-5)

APPENDIX 30-D

SOIL CLASSIFICATION SYSTEM (SOIL – SEPARATE SIZE LIMITS)

Source: EPA Design Manual for Onsite Wastewater Treatment and Disposal Systems
Names and Size Limits of Practical-Size Classes According to Six Systems



SYSTEM:

1. U.S. Bureau of Reclamation and Corps of Engineers (U.S. Dept. of the Army)
2. American Association of State Highway Officials
3. American Society for Testing and Materials
4. Wentworth
5. U.S. Department of Agriculture*
6. International Society of Soil Science

* Preferred System

(Weld County Code Ordinance 2005-5)

APPENDIX 30-E

TEXTURAL TRIANGLE DEFINING TWELVE TEXTURAL CLASSES OF THE USDA
(ILLUSTRATED FOR A SAMPLE CONTAINING 37% SAND, 45% SILT AND 18% CLAY)

Source: EPA Design Manual for Onsite Wastewater Treatment and Disposal Systems

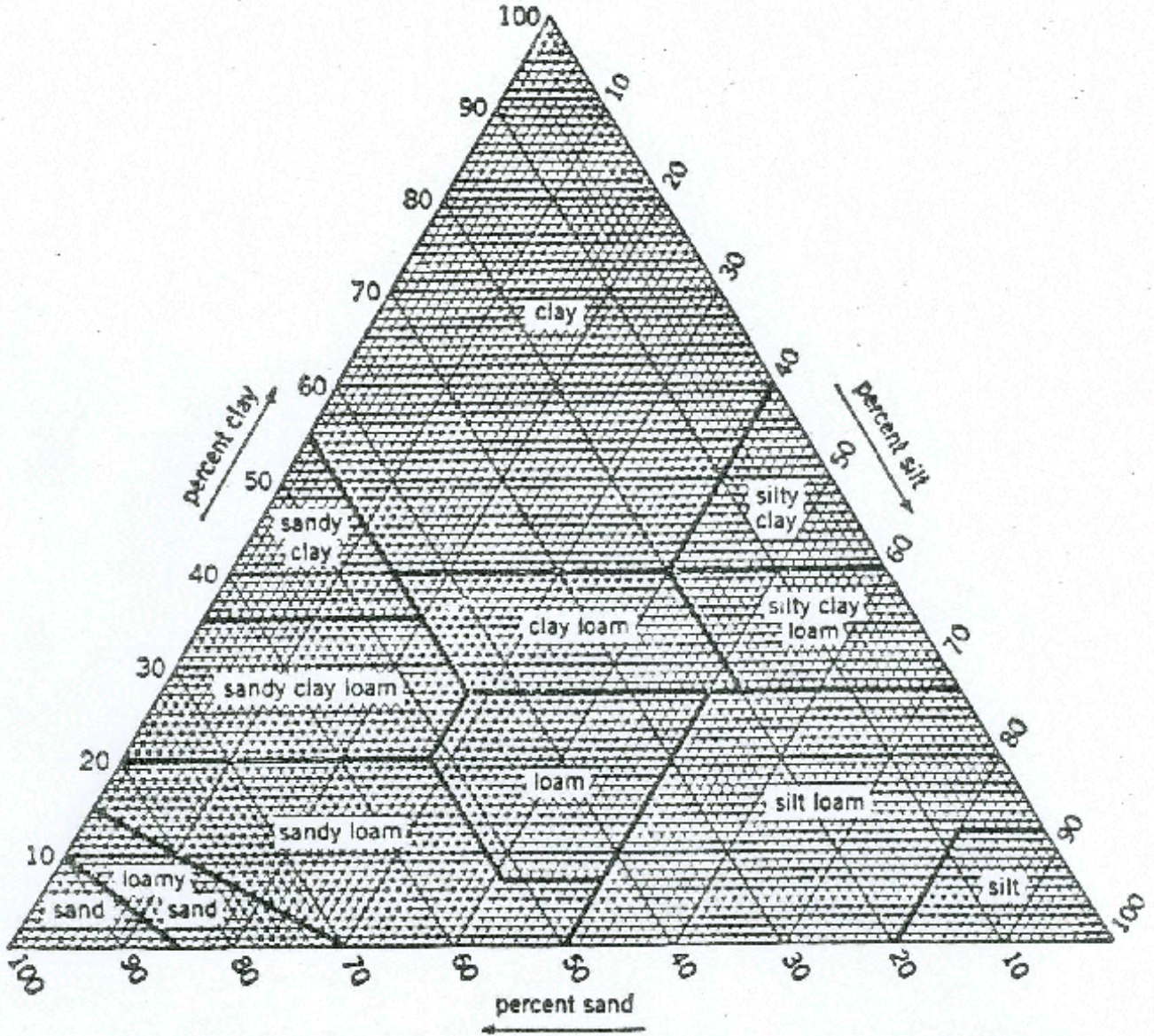


Chart showing the percentages of clay (below 0.002 mm.), silt (0.002 to 0.05 mm.), and sand (0.05 to 2.0 mm.) in the basic soil textural classes.

From: USDA Soil Survey Manual – 5, L-13, 748

(Weld County Code Ordinance 2005-5)

Appendix 30-F

Notice of Maintenance Required for Certain Aspects of Individual Sewage Disposal System

Weld County Department of Public Health and Environment
1555 N. 17th Avenue
Greeley, Colorado 80634
970-304-6415

The individual sewage disposal system serving the property with the address and legal description described below is equipped with a mechanical part or appurtenance that requires routine attention and/or maintenance that is necessary to maintain the integrity and functionality of the system.

Parcel #:

Address:

Legal Description: Pt. _____, Pt. _____, Section _____, Township _____, Range _____

Legal description from Weld County Assessor's Office (cut-and-paste legal description from County Assessor website, <http://www.co.weld.co.us/> below):

Equipment or Mechanical Part Requiring Attention or Maintenance:

A copy of the permit and supporting information for this individual sewage disposal system can be obtained at the Weld County Department of Public Health and Environment.

(Weld County Code Ordinance 2007-5)