

Non-Metrical Weights and Measures

In the past many different weights and measures have been used. Also after the year 1793, where in some parts of the world the metrical system was introduced, our ancestors in Europe used the old units.

Historically the meter was defined as 1/10,000,000 of the distance from the equator to the North Pole through the city of Paris.

Because the old weights and measures have been used in the German speaking areas, the following list uses them as you could find it in the records, means in the German language.

	Metric unit	Imperial unit (rounded)
Measure of length		
1 Äquatorgrad	111.3 km	69.159 miles
1 Meridiangrad	111.12 km	69.047 miles
1 deutsche Landmeile	7.5 km	4.660 miles
1 hessische Meile	9.2064 km	
1 neue geographische Meile	7.42 km	4.611 miles
1 deutsche Seemeile	1.852 km	1.151 miles
1 Kabel (= 120 Faden)	220 m	240 yard
1 Faden	1.829 m	2 yard
1 Klafter (= 1 russ. Saschen)	2.1336 m	
1 russischer Arschin	0.7112 m	
1 preußische Elle	0.666 m	2 ft., 2 inch
1 Casseler Elle	0.5698 m	
1 preußische Ruthe (= 12 Fuß)	3.766 m	4 yard, 5 inch
1 hessische Ruthe (= 14 Fuß)	3.9888 m	
1 preußische Fuß (= 12 Zoll)	0.3139 m	1 ft., 3/8 inch

1 althessischer Fuß	0.2849 m	
1 preußischer Zoll	2.615 cm	1 3/8 inch
1 russischer Zoll	2,54 cm	
1 hessischer Zoll	2.397 cm	
1 hessischer Werkfuß (= 12 Zoll)	0.2877 m	
1 hessische Linie	2.0 mm	

Square measure

1 geographische Quadratmeile	55.0629 km ²	21.260 sq.miles
1 hessische Quadratmeile	8475.7 ha	0.630 acre
1 preußischer Morgen	0.2533 ha	150.894 sq ft.
1 preußische Quadratruthe	14.0185 m ²	91.682 sq ft.
1 bayerische Quadratruthe	8.5175 m ²	
1 hessische Quadratruthe	15.910 m ²	0.842 acre
1 bayerisches Tagwerk	0.3407 ha	
1 hessischer Acker	2386.5 m ²	1.062 sq ft.
1 preußischer Quadratfuß	0.0985 m ²	
1 hessischer Quadratfuß	0.082771 m ²	
1 hessischer Quadratzoll	5.7480 cm ²	
1 hessische Quadratlinie	3.9916 mm ²	

Cubic measure

1 preußische Kubikrute	53.423 m ³	69.87 yd ³
1 Klafter (= 108 Kubikfuß)	3.339 m ³	4.37 yd ³

1 Kubikfuß	0.031 m ³	1.09 ft ³
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Measure of capacity

1 preußischer Scheffel	0.54 hl	11.878 gal
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1 bayerischer Scheffel	2.22 hl	48.393 gal
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1 russischer Tschetwert	200.91 l	52.836 gal
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1 Malter	1.5 hl	32.995 gal
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1 Schiffstonne	2.21 m ³	2.89 yd ³
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1 Simri	22.1533 l	5.029 gal
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1 Eimer	12.3 l	3.17 gal
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Weights

1 Zentner	50 kg	110.23 pound
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1 russisches Pud	16.38 kg	36.11 pound
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1 Pfund (= 30 Lot)	500 gram	1.102 pound
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1 altpreußisches Pfund	467.7 gram	1.031 pound
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1 russisches Pfund	409.5 gram	0.903 pound
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1 Lot (= 10 Quentchen)	16.66 gram	0.588 ounce
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1 Karat	0.2 gram	0.6172 grain
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