

**Kerfab**  
ATTACH+GO

# Wheel Loader Bucket Guide




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## About

Kerfab is Australia's leading supplier of multipurpose machinery attachments.

Over 25 years of experience designing, fabricating, and supplying attachments for the waste management, construction, and agriculture industries has given us a unique insight into each industry and its needs.

Machine utilisation, efficiency, and productivity are the heart of everything we do. Our expert team comprises of sales staff, engineers, fabricators, logistics experts, and painters.

It's this team that has the capability to identify each customer's unique needs, design and then build a bucket to suit those needs and each machine.



# The right bucket for the job



## What to consider when choosing a bucket

The first consideration is the machine.

The operating weight, lifting capacity, and hitch/coupler type are the first things to think about when selecting an attachment.

The choice of bucket will depend on the heaviest material density and harshest conditions the bucket will regularly handle. Environmental concerns should also be considered as a material may have a different density and weight depending on moisture levels.



People often want the largest bucket their machine can handle, but the materials being handled dictates the style and size of the required bucket. Dense and abrasive materials require heavier duty buckets which can weigh considerably more than their lighter duty counterparts.

Kerfab can help you determine the optimal balance between bucket weight and capacity for your machine.

## General Purpose Bucket

### Common uses:

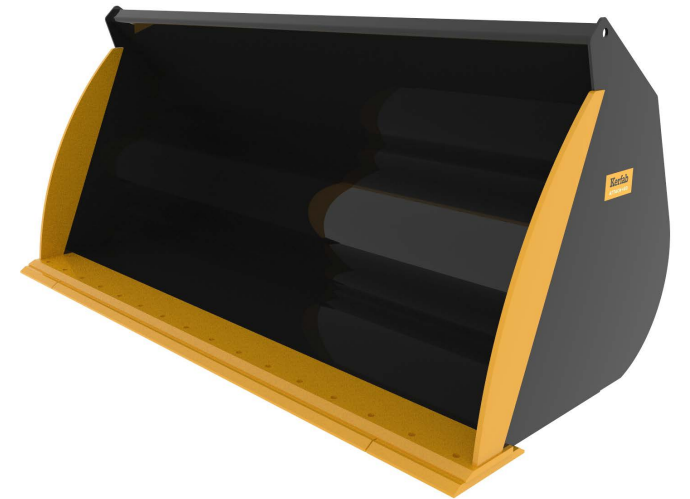
Handling gravel, fertiliser, rubble, light materials, dry sand, and other materials under 1600kg/m<sup>3</sup> density (refer to density chart on page 11).

### About

An ideal all round bucket, the GP Bucket is designed for handling loose material and aggregate.

This style of bucket is more durable than a light material bucket and can withstand harsher applications and material, but it has a smaller capacity.

Fitting this bucket with teeth allows it to be used to load easily broken material from banks.



## Rehandling Bucket

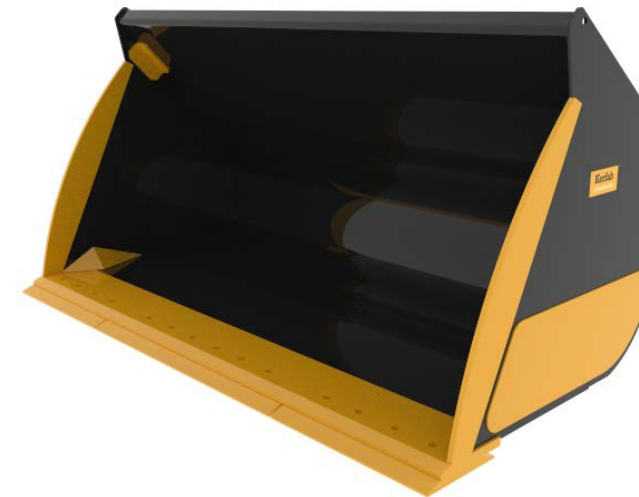
### Common uses:

Handling processed sand, gravel, aggregate, limestone, and other material between 1200kg-2200kg/m<sup>3</sup> (refer to density chart on page 11).

### About:

The perfect fit for handling, stockpiling and loading processed material. Optimised for applications requiring moderate break-out force.

Achieves the highest possible machine performance in both short cycle and load and carry applications. Available with optional bolt-on edge.



## 4 in 1 Bucket

### Common uses:

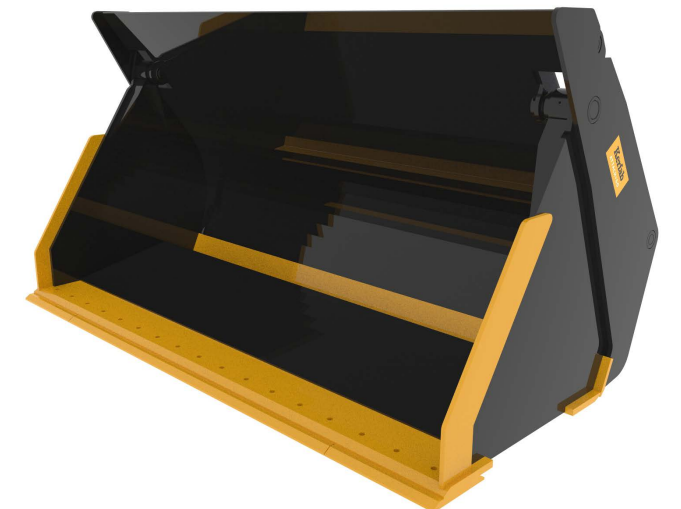
Handling gravel, fertiliser, rubble, light materials, dry sand, and other materials under 1600kg/m<sup>3</sup> density (refer to density chart on page 11).

### About

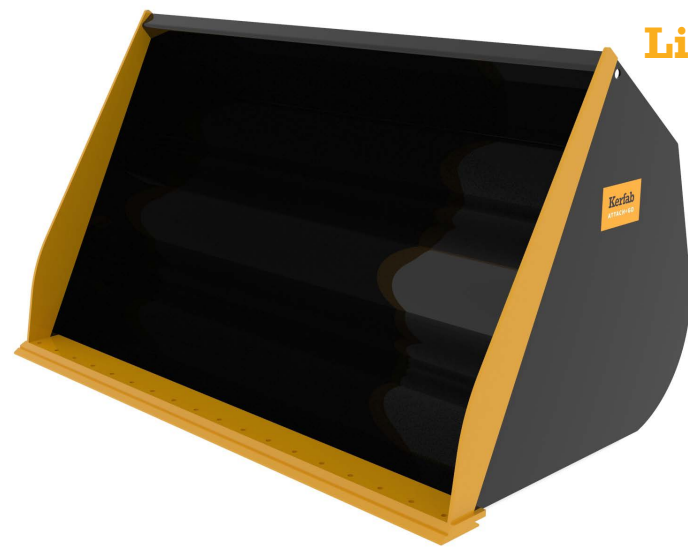
The most versatile attachment that's suitable for multiple applications. The bucket can be used as a standard bucket and due to the bucket opening from the centre, materials can be dumped without tilting the bucket, allowing for dumping from a greater height.

This bucket can also be used as a grab by closing the bucket on objects as well as a blade by opening the bucket fully.

This bucket can be optioned with teeth and various wear edges depending on application.







## Light Materials Bucket (Light Duty)

### Common uses:

Handling flour, oats, sawdust, other materials under 500kg/m<sup>3</sup> density (refer to density chart on page 11).

### About

High capacity light materials bucket for efficient handling of very low density material such as wood chips and sawdust.

Due to the light material being handled this bucket can be constructed from lighter materials which allows for a larger bucket with a huge capacity.

Using this bucket to handle material over 500kg/m<sup>3</sup> will result in premature wear.

## Light Materials Bucket (Medium Duty)

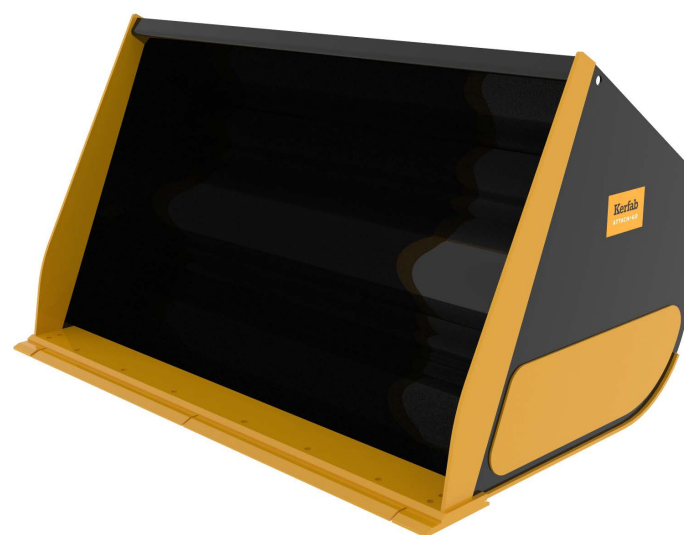
### Common uses:

Handling compost, wheat, ashes or other material between 500kg/m<sup>3</sup> - 1000kg/m<sup>3</sup> (refer to density chart on page 11).

### About

High capacity light materials bucket for efficient handling of low-density material such as compost, refuse, coal etc.

Made from a stronger material than its light duty counterpart, this bucket is capable of handling harsher materials while still being able to move large volumes of material.



## High Dump Bucket (Light Duty)

**Common uses:** Handling flour, oats, sawdust, and other materials under 500kg/m<sup>3</sup> density (refer to density chart on page 11).

### About

High capacity high dump bucket for efficient handling of very low-density material such as wood chips, sawdust etc.

The design of this bucket allows it to pivot on the front bucket edge. This design effectively gives the machine increased reach so it can dump over high sided trucks, over fences, or over other tall obstacles.

Being light duty, this bucket can handle large amounts of lighter material and is unsuited for harsher, more abrasive material.



## High Dump Bucket (Medium Duty)

### Common uses:

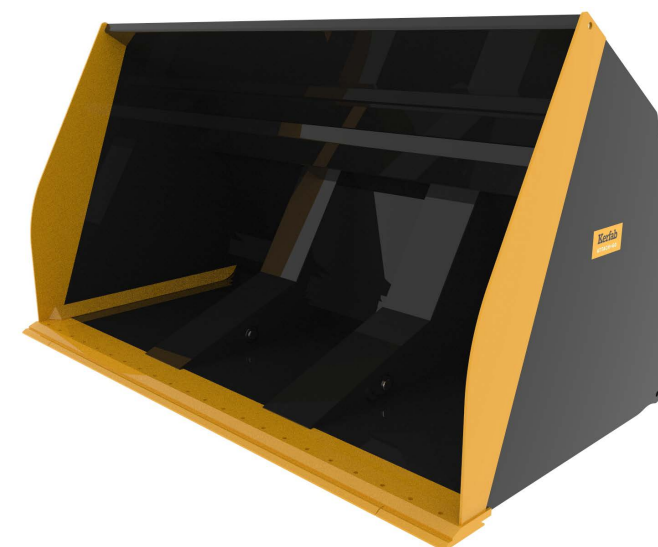
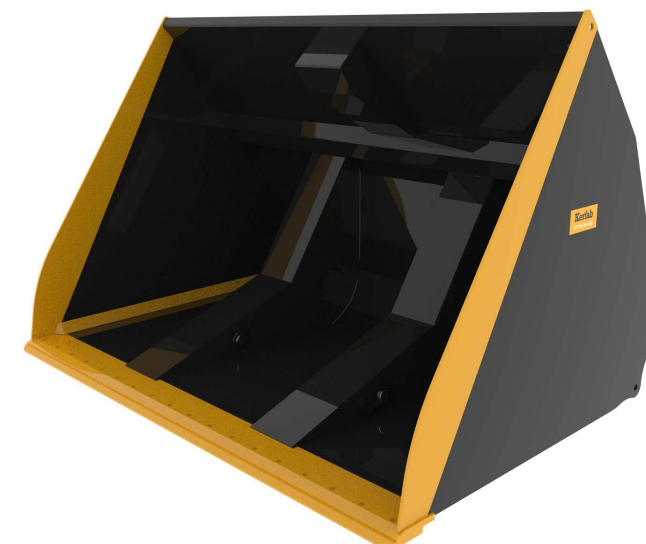
Handling manure, wheat, ashes, and other materials between 500kg/m<sup>3</sup> - 1000kg/m<sup>3</sup> (refer to density chart on page 11).

### About

Like its light duty counterpart, this bucket pivots on the front edge of the bucket which allows it to effectively increase the reach of a machine.

Constructed from stronger materials, this bucket is a good balance between weight, strength, and capacity.

While it is capable of handling harsher materials than the light duty version, it isn't suited for anything above 1,000kg/m<sup>3</sup>.



## High Dump Bucket (Heavy Duty)

### Common uses:

Handling fertiliser, waste, compost, coal, cement, and other materials over 1,000kg/m<sup>3</sup>.

### About

High capacity high dump bucket for efficient handling of dense and abrasive material. This is a tougher and stronger version than the medium or light duty high dump bucket.

The extra strength comes at the expense of weight, so this bucket is only recommended for abrasive and dense materials.

## High Dump Bucket (Outer Pocket)

### Common uses:

Handling fertiliser, waste, compost, coal, and other materials over 1,000kg/m<sup>3</sup>.

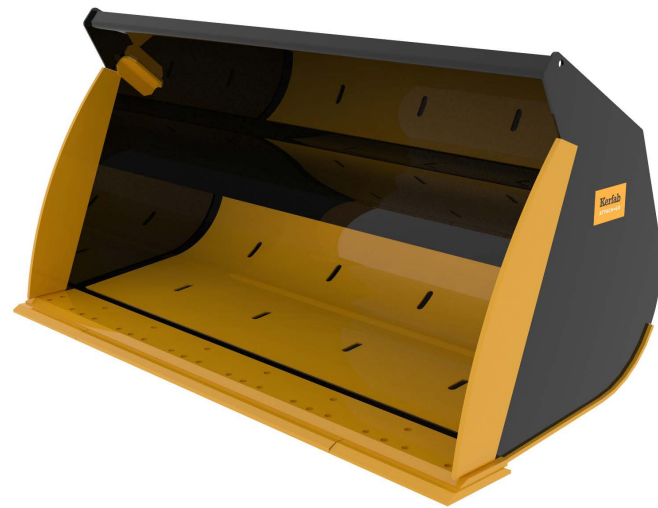
### About:

Outer pocket high dump buckets are for efficient handling of dense and sticky materials such as manure or fertiliser.

The design of this bucket reduces the amount of areas where materials can get stuck to.

This is a tougher and stronger version than the medium or light duty high dump bucket, hence capacities will be less than the other versions.





## Moderate Abrasion Bucket

### Common uses:

Handling processed sand, gravel, blue metal, aggregate, limestone, and other material between 1600kg- 2200kg/m<sup>3</sup> (refer to density chart on page 11).

### About

For use in more abrasive environments such as moderate duty concrete batching plants, this bucket is a perfect fit for handling, stockpiling and loading processed material.

Replaceable internal wear liners add extra life to the bucket while also adding weight, as a result capacity is reduced compared to GP buckets.

Available with optional bolt-on edge.

## High Abrasion Bucket

### Common uses:

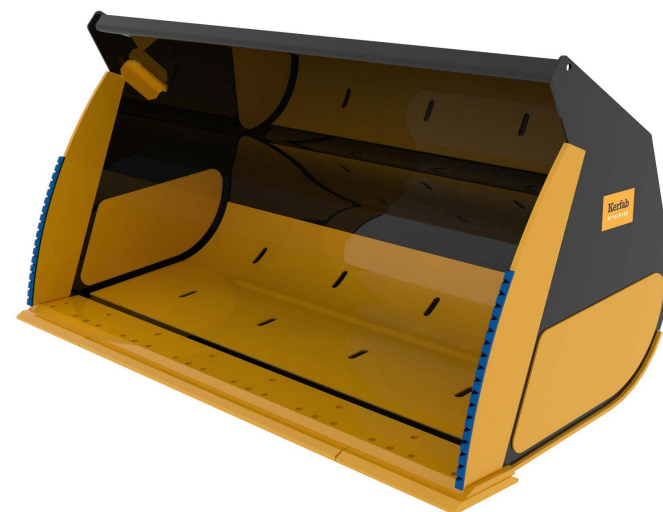
Handling processed mineral sands, sand, gravel, blue metal, aggregate, limestone, and other material between 1600kg- 2500kg/m<sup>3</sup> (refer to density chart on page 11).

### About

For use in highly abrasive environments such as loading mineral sands, and high duty cycle concrete batching plants.

Replaceable internal wear liners, side wear plates, and chocky block all add extra life to the bucket while also increasing weight and reducing capacity.

Available with optional bolt-on edge.



## General Purpose Waste Bucket

### Common uses:

Useful across a range of applications in the waste industry - capable of handling material up to 1800kgm<sup>3</sup>.

### About

Part of the **WastePro Range**, this bucket has been specially designed for the waste management industry.

This bucket can be optioned to handle a wide range of applications in the waste industry such as handling crushed glass, organic/green waste, general refuse, non-crushed glass, co-mingled waste, and more.

Options include: trash guard, internal skins, side wear plates, heel plates, raised floor, bolt on edges, and more.



## High Capacity Waste Bucket

### Common uses:

Handling dry refuse and other materials under 750kg/m<sup>3</sup>.

### About

The High Capacity Waste Bucket is a heavy-duty light material buckets intended for use in recycling applications like handling refuse material, household garbage and other low density waste material.

Part of the **WastePro Range**, this bucket has been strengthened and optimised to perform in the waste management industry.

Options include: trash guard, internal skins, side wear plates, heel plates, raised floor, bolt on edges, and more.



## Rock Bucket (Straight Edge)

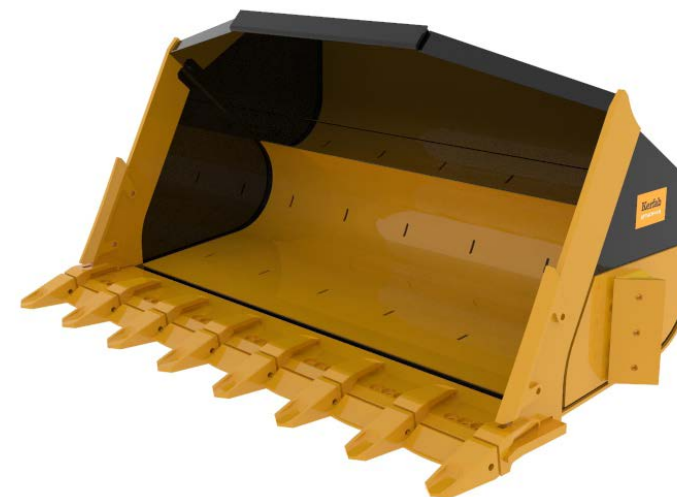
### Common uses:

Handling gravel, fine shot rock, ore, granite chippings, brick aggregate, bricks, and other material between 1600kg/m<sup>3</sup> - 2500kg/m<sup>3</sup>.

### About

Heavy-duty, wear resistant bucket. Optimised for loading shot rock or easily broken material from a bank with high break-out capability.

When fitted with welded teeth options and segments, it is the best choice for loading easily broken abrasive material.



## Rock Bucket (Spade Nose)

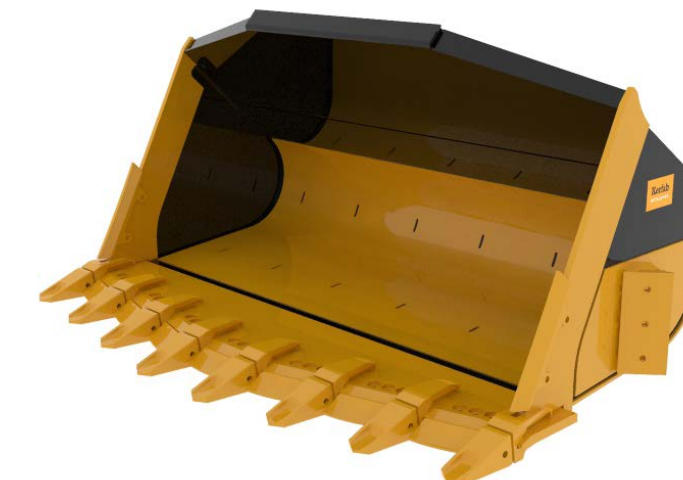
### Common uses:

Handling gravel, fine shot rock, ore, granite chippings, brick aggregate, bricks, and other material between 1600kg/m<sup>3</sup> - 2500kg/m<sup>3</sup>.

### About

The best choice for breaking-out hard and stony material and shot rock.

Can be fitted with custom GET to suit individual requirements, and, fitted with a spade nose edge, is most suited for handling rock in high abrasion, high impact environments.



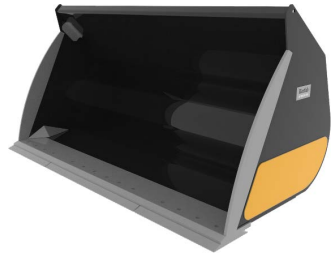




## Cutting Edges

### About:

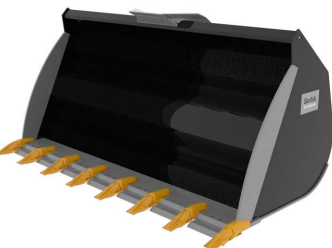
Available in both weld-on and bolt-on configurations. Bolt-on is preferred in applications where heavy wear is expected as it's easily replaceable. Weld-on is often used for light materials where minimum wear is expected.



## Side Wear Plates

### About:

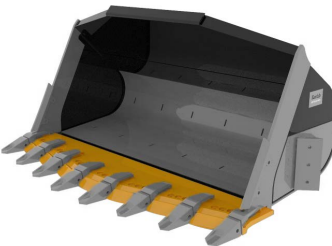
Side wear plates are useful when handling abrasive materials as it prolongs the life of the bucket by protecting the bucket skin. This will add weight to the bucket. Available in Standard Duty and Heavy Duty Configurations.



## Teeth

### About:

Ideal for digging compacted material, teeth increase the penetration capabilities of a bucket. Teeth are available in a range of brands and are supplied based on customer preference.



## Base Lip

### About:

The base lip is available in either a straight or spade nose (pictured). Straight lips are most common and offer good dumping clearance. Spade noses offer increased penetration and are particularly useful handling stone, but has reduced breakout force and reduced dumping clearance.



## Spill Guards

### About:

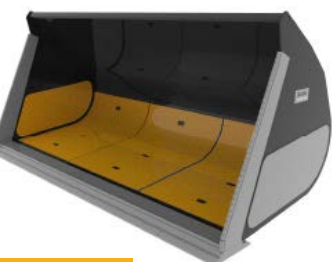
Spill guards come in various configurations. They can be a "V" style (pictured) or stretch across the entire width of the bucket. Larger guards incorporate slots for increased visibility. Spill guards stop material spilling onto the loader arms and hitch and also reduce the loss of material.



## Heel Plates

### About:

Heel plates protect the underside of the bucket from wear. These are especially useful when handling abrasive materials or in tough environments such as a quarry.



## Coatings

### About:

Kerfab products come standard painted to OEM colours in enamel paint, however there is also the option of high resistant coatings for corrosive applications such as handling fertiliser.

The table below indicates an estimate of material density (kg/m<sup>3</sup>) of various common materials, plus recommended maximum bucket fill values (%).

These figures will assist in selecting the correct attachment according to the machine lift capacities.

**If you have any questions regarding these or any material not listed below, please call Kerfab's technical team on 1800 818 079.**

Material	Kg/m <sup>3</sup>	% Fill
Aggregate (Brick)	1,820	100
Ashes	600	85
Asphalt	1,600	100
Beet Pulp (Nuts)	600	85
Beet Pulp (Pressed)	900	110
Brewers Grains	1,100	85
Brick Aggregate	1,830	100
Bricks (Common)	2,450	Per 1,000
Bricks (Facing)	2,700	Per 1,000
Cement (Natural)	895	100
Cement (Portland)	1,440	100
Chalk	2,200	100
Clay (Fire)	2,080	100
Clay (Wet)	1,880	110
Coal (Anthracite)	896	100
Coal (Bituminous)	1,261	100
Coal (Cannel)	1,261	100
Coal (Newcastle)	1,261	100
Coal (Welsh)	1,311	100
Coke (Loose)	597	85
Coke (Petroleum)	700	85
Copper (Concentrate)	2,300	85
Earth (Dry Loose)	1,112	100
Earth (Wet Packed)	1,550	110
Fertiliser (Mixed)	1,000	85
Fertiliser (Nitrate)	1,250	85

Material	Kg/m <sup>3</sup>	% Fill
Flour	440	85
Glass	2,600	85
Granite Chippings	2,655	85
Gravel (Dry)	1,700	85
Lime (Quick Loose)	850	100
Limestone (Crushed)	1,526	100
Manure (Farmed)	900	85
Mortar	1,600	100
Oats	410	85
Peat (Dry)	400	100
Potatoes	690	85
Rubble	1,025	100
Refuse (Dry)	398	100
Sand (Dry)	1,550	100
Sand (Wet)	1,900	110
Sawdust	250	110
Silage (Ensiled)	730	110
Silage (Green)	340	110
Slate	2,723	100
Slurry	1,740	85
Snow (Fresh)	141	110
Snow (Wet)	514	110
Sodium Chloride (Salt) (Dry)	1,300	85
Sugar Beet	540	100
Turnips	540	100
Wheat	730	85

# Conversions

Cubic Feet x 0.0283	=	Cubic Metres
Cubic Feet x 28.3	=	Litre
Cubic Metre ÷ 0.0283	=	Cubic Feet
Cubic Metre	=	1.31 Cubic Yards
Cubic Metre	=	5.32 Cubic Feet

1 Cubic Metre	=	1,000 Litres
1 Kilogram	=	2.2 Pounds
1 Metric Tonne	=	0.984 Tons Imperial
25.4 mm	=	1 Inch
4.5461 Litres	=	1 Gallon





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