

“Crush” Beans For Profit & To Fuel Your Farm

For the past three years Walder Farms has supplied 80 percent of its own fuel by crushing soybeans. Their business, Walder Mfg., has come up with a unique system that uses two inexpensive presses to heat meal to higher temperatures, resulting in a by-product with an average 47 percent by-pass protein for livestock feed. The two-press technique out-performs a single press.

The three biggest reasons to “double press”:

1. A double press allows meal to exit the second press at 197 degrees consistently, which achieves 47 percent by-pass protein. The two-press system has a special-designed meal cutter so the texture is a tiny chip ready to store in a tank for feeding.

2. A single press will extract on average .75 gallons of oil per bushel of soybeans. With the two-press system, the Walder’s average 1.2 gal. of oil per bushel. Raw soybeans contain a maximum of about 1.4 gal. of oil per bushel.

3. The two-press system doubles the output of a single press. Like a factory, the raw soybean go in and finished products come out.

The Walder’s feed bean meal to their purebred Black Angus herd daily. They have achieved 1,200-lb. bulls at one year old and most of the bulls were over 1000 lbs. That is an average of 105 lbs more weight compared to purchasing commercial pellets for protein. (All of the success is due to making their own meal and controlling the feed to the recommended rates.)

Testimonials explain why Walder Mfg. has been successful selling presses in a poor farm economy:

Walder Mfg. has sold custom presses to large farms and to small farms, both with different objectives.

1. Walder Mfg. delivered a set of large presses to a dairy with more than 600 cows in Michigan in January 2009. In April the farmer called and said he had a semi load of oil. What next? Walder suggested he sell the oil as a commodity at market price. The farm sold the pressed oil for \$2.88 a gallon and, in the spring, purchased fuel oil at \$1.90/gallon plus they still had all the meal to feed.

2. Walder Mfg. delivered a set of two-ton presses with a 22 hp diesel to a 50-cow dairy in Erie, Penn., that had been growing and selling their soybeans on the open market and buying commercial meal. The cows on their farm had stiff joints. Puzzled, the only variable that was different in the care of their cattle was that they were buying meal. They tested the meal and it was off the



Walder Mfg. set up a pair of 8-ton presses in one of their farm buildings and, after 3 years, are now custom-pressing soybeans for 6 local farms. Interest in the service has been increasing every year.

charts on molybdenum. Their home grown soybeans barely tested for any molybdenum. By feeding their own pressed meal from the Walder’s presses, they had total control of the quality of the meal and had the oil left over as a bonus.

3. The two 2-ton presses for soybeans are the most efficient pair and have enough capacity to power most farms, producing 5 gallons of oil per hour and almost 300 lbs. of meal per hour, while consuming only 1/2 gallon fuel per hour powering the presses.

The third market for Walder Mfg oil presses is a food grade oil press. This system mainly crushes sunflowers. The food upgrade press has all stainless steel bolts, catch pans and food grade paint. The oil press sells for \$1500.00 more.

Walder Mfg. future projects for the next year:

In 2010 Walder Mfg. plans to begin producing commercial quality meal for hogs and poultry. They are in the process of designing and testing a single press that leaves 10 percent fat in the meal. The output meal temperature is raised to 285 degrees to kill the trypsin. They are also testing a piece of equipment called a “Trypsinator” that also kills trypsin, which will allow edible and digestible commercial grade meal to be fed to hogs and poultry.

Walder Mfg. sells individual presses that produce 2, 6, 8 and 18 tons of oil per 24 hour work day. Individual presses work exceptionally well on sunflower, canola, and camelina with the 18-ton unit producing one

gallon of oil in less than 2 minutes.

The biggest reason to buy from Walder Mfg. is that when a press leaves their shop, all the parts are on and the press is ready to go to work. Every new press is totally taken apart, cleaned lubricated, readjusted for best oil yield, and they even machine some presses to their own specs.

They point out that some presses sold by importers on the internet never work out of the box and the people that sell them don’t have a clue how they work. Walder Mfg prides itself on never telling a customer “you’re on your own”. They give all the technical support needed, offering their own experience in processing oil crops.

The most common question asked is, “How do I burn the oil?” To help answer that question, the Walder’s have a business relationship with Dan McAmoil. Dan has a lot of experience growing sunflowers and has burned over 15,000 gallons of oil in his own tractors. Dan has done years of research to come up with a formula which involves adding gas instead of taking glycerin out.

(For more information about Dan’s work go to www.oilcrusher.5u.com or email [pvffarm@ruraltel.net](mailto:pvfarm@ruraltel.net)).

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