

# Finished Feed Analysis - Yellow peas (Montek)

REPORT NUMBER

**15-315-9417**

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13611 "B" Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121  
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ISSUE DATE  
Nov 11, 2015

**MONTANA DEPT OF AGRICULTURE  
TRESTON VERMANDEL  
321 SOUTH 24TH ST WEST  
BILLINGS MT 59101**

**REPORT OF ANALYSIS**  
For: (37276) MONTANA DEPT OF AGRICULTURE  
YELLOW PEAS  
YELLOWSTONE - MONTEK  
FINISHED FEEDS

Analysis	Level Found		Units	Reporting		Analyst- Date	Verified- Date
	As Received	Dry Weight		Limit	Method		
Sample ID: 003    Lab Number: 12543893							
Moisture	10.94	//////	%	0.01	AOAC 930.15 *	vrm7-2015/11/10	jgt1-2015/11/11
Dry matter	89.06	//////	%	0.010	Calculation *	Auto-2015/11/11	Auto-2015/11/11
Protein (crude)	25.2	28.3	%	0.20	AOAC 990.03 *	cmw4-2015/11/10	jgt1-2015/11/11
Fat (crude)	0.64	0.72	%	0.10	AOAC 945.16 *	lht0-2015/11/10	jgt1-2015/11/11
Fiber (acid detergent)	7.9	8.9	%	0.5	ANKOM Tech. Method *	vrm7-2015/11/10	jgt1-2015/11/11
Ash	2.38	2.67	%	0.10	AOAC 942.05 *	vrm7-2015/11/11	jgt1-2015/11/11
Total digestible nutrients	71.9	80.7	%	0.1	Calculation *	Auto-2015/11/11	Auto-2015/11/11
Net energy (lactation)	0.75	0.84	Mcal/lbs	0.01	Calculation *	Auto-2015/11/11	Auto-2015/11/11
Net energy (maint.)	0.78	0.87	Mcal/lbs	0.01	Calculation *	Auto-2015/11/11	Auto-2015/11/11
Net energy (gain)	0.52	0.58	Mcal/lbs	0.01	Calculation *	Auto-2015/11/11	Auto-2015/11/11
Digestible energy	1.43	1.61	Mcal/lbs	0.01	Calculation *	Auto-2015/11/11	Auto-2015/11/11
Metabolizable energy	1.30	1.46	Mcal/lbs	0.01	Calculation *	Auto-2015/11/11	Auto-2015/11/11

## Detailed Method Description(s)

### Moisture

Analysis follows MWL FD 016 which is based on AOAC 930.15. A sample is blended, mixed, or ground to obtain a homogenous sub-sample. The sample aliquot is placed in a pre-weighed tin, weighed to get a sample weight and then placed in a 135°C convection oven for two (2) hours. The sample is then removed, cooled in a desiccator and reweighed. The loss in weight is reported as % moisture.

### Calculation

Analytical results are entered into applicable formulas to provide a calculated result which is reported.

### Protein (Crude)

Analysis follows MWL FD 070 which is based on AOAC 990.03. The sample is placed in a combustion instrument and the amount of nitrogen is obtained. The nitrogen value is multiplied by a factor of 6.25 and that value reported as crude protein.

### Crude Fat

Analysis follows MWL FD 026 which is based on AOAC 945.16. The sample is extracted with drip immersion of the sample in petroleum (pet) ether. The pet ether is poured into a pre-weighed container and then evaporated. The container is re-weighed and the increase in weight is reported as crude fat.

### Acid Detergent Fiber

Analysis follows MWL FD 021 which is based on Ankom Technology method. The sample is sealed in a small bag and the bag immersed in a solution that dissolves certain materials. The bag is washed and dried and re-weighed. The material remaining in the bag is reported as acid detergent fiber.

### Ash

Analysis follows MWL FD 019 which is based on AOAC 942.05. The sample is weighed and placed in a muffle furnace at 600°C. After a period of time, the sample is removed and the remaining material weighed and reported as ash. Moisture and organic material is driven off.