

King Consistency

IAOM Arusha, Tanzania

Peter Lloyd, USW MEENA Region





The world's most reliable choice.





CONSISTENTLY GOOD FLOUR,

made from

CONSISTENTLY GOOD WHEAT,

processed by

CONSISTENTLY GOOD MILLERS and BAKERS

makes

CONSISTENTLY GOOD PROFITS!



Recession, Sub Prime, Banks, Credit...



- Businesses to suffer with tighter credit.
- Record number of bankruptcies forecast for 2009.
- Etc.



In the eyes of the customer!





Protein conversion (12%mb – db)

$$14.0\%$$
 pro $^{12\%$ mb $}/0.88 = 15.91\%$





- In our Wheat.
- In our Flour.
- In our Process.
- How much is tolerated by our customer?
- Can we reasonably expect to meet his needs?
- If not what can we do to correct this?





- Their average height is 1.52m
- Their average weight is 54 kg
- Their weights range from 44 to 100kg



Sublots <

ng

Material portions

(Rejected)

Example of a 14.5% minimum spec.						TW		M		PRO MIN		_	
6	S/L	TIMES	BINS	STOWAGE	Outpostitu	Odes	58.0	-0.3	10.5	0.3	47.5	-0,5	Runr
		1302/1407		2 STOWAGE	Quantity 1,999,890		59.8	-0.1	13.5	0.0	14.5	-02	-
)	2	1427/1531		3	1,995,970		60.3	0.0	10.3	0.0	14.6	0.0	dif
	3	1532/1634		3	1 999 950		60.5	0.0	10.2	0.0	14.6	0.0	
5	MP-1	1818/1920	4	R&R	2,000,105		61.2	0.0	11.4	0.0	**14.3	-0.2	
	FR MP-1	1010/1920		IVOIV	2,000,100	ON.	01.2	0.0	11.4	D, U	14.2	-0,2	-
	REX MP-1					ок	61.2	0.0	11.4	0.0	**14.3	-0.2	
)	4	2338/0057	5	3	2,000,125		60.6	0.0	11.7	0.0	14.7	0.0	
1	MP-2	0059/0213	2	R&R	2,000,100	OΚ	60.6	0.0	11.2	0.0	14.5	0.0	
-11	FR MP-2												
F	REX MP-2					ок	60.6	0.0	11.2	0.0	14.5	0.0	
1	5	0215/0847	4	3	1,999,955	ОК	60.5	0.0	11.2	0.0	14.7	0.0	
1	6	0852/1020	3	3	1,990,060	OK	60.2	0.0	11.0	0.0	14.6	0.0	
1	7	1024/1154	2	3	1,999,710	ok .	60.5	0.0	10.8	0.0	14.5	0.0	
1	8	1158/1305	4	3	1,989,295	ok .	60.0	0.0	10.4	0.0	14,8	0,0	
1	9	1310/1426	5	3	2,000,055	ок	60.5	0.0	1131	0.0	14.8	0.0	
1	10	1429/1541	6	3	1,999,965	ок	60.6	0.0	11.8	0.0	14.7	0.0	
1	- 11	1547/1827	1	3	2,000,115	OK:	61.1	0.0	11.6	0.0	14.7	0.0	
1	12	1829/2002	2,5	3	2,275,575	ok .	60.4	0.0	10.1	0.0	14.5	0.0	
													Running
													Running avg.
411													
IAME OF INSPECTOR (GODE NO.			Average	-	60.41	11-1	10.85		14.65				
						Rounded		60.4		10.9		14.7	

Cargo result



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Slide – Table of Variability

Specification	Average	Minimum	Maximum
'Ordinary'	As loaded	None	None
Average	Spec.	None	None
Minimum	Spec	Spec -0.5% Lowest s/lot	None
Min. by sublot	Spec	Spec	None
Range specification	Spec	Min. spec	Max. spec.





Hard Red Spring Wheat Wheat Flour.									
Protein (12% Moisture Basis)	12%	DB	-1% Milling loss		Wet Gluten	Flour Protein 14% mb			
Specification Basis:	Mini mum	DB wheat	Mill loss			Flour			
Specification:	14.0	15.9	14.9		34.6	12.8			
High:	14.3	16.3	15.3		35.5	13.1			
Low:	13.8	15.7	14.7		34.0	12.6			
Average:	14.0	15.9	14.9		34.6	12.8			
FLOUR		Pro	Wet						
Range	Protein14%m/b		Wet Gluten						
High:	13.1		35.5						
Low:	12.6		34.0						
Average:		12.8	34.6						



Caveat Emptor

Buyer Beware!!









- Effective Varietal Development.
- Good Growing Practices
- Maintenance of varietal purity in Certified Seed.
- Good communication from Plant Breeder to Grower to Users and back again.
- Communication through trade associations such as the various wheat marketing organizations, Millers and Baking Associations
- Classification of wheats according to their functionality
- Segregation of wheat by functionality at source, and in your silos.
- Use of various quality assurance standards throughout the supply chain.



Wheat

 Your wheat is the foundation upon which you build your profitability.

 CONSISTENTLY GOOD FLOUR, MADE FROM CONSISTENTLY GOOD WHEAT, PROCESSED BY CONSISTENTLY GOOD MILLERS AND BAKERS MAKES CONSISTENTLY GOOD PROFITS!











- Wheat Specifications
- Intake testing
- Appropriate segregation of wheats in storage
- Blending, blending and blending again
- Screenroom adjustment
- Cleaning different wheat types independently
- Optimizing conditioning
- Analyzing wheat VALUE factors







- Automatic moisture control
- On-line NIR(R) analysis.
- Color sorting.
- Use of decortication.
- Optimizing set-up of core machines (rollermills, sifters and purifiers) to ensure that the right stocks are in the right place.





- Planned maintenance programs
- Production Planning Methodology
- Careful control of return and start-up flour
- Blending flours
- Quality testing plans
- Setting specifications and tolerances for key quality parameters with the customer.
- Good practice policies in respect of areas such as Hygiene, Pest Control and Health and Safety
- Quality management standards such as HACCP, ISO 9000, BRC, EFSIS and IFS



Typical UK Bakery flour specification;

Flour specification and tolerances for:

Moisture 14% ± 0.6%

Protein Target +/- 0.2%

Water Abs. Target +/- 2%

Ash Not used in UK.

• F/Number 250 secs + 50 -0 secs

Resistance +/- 50 BU (where specified)

Extensibility +/- 2 cm (where specified)

How does your mill compare?



Some sage advice from an old miller

 'If you want the best advice that my milling mentor offered to me then you can't go wrong if you 'Blend, Blend, Blend'!!"







Britain's No.1 Baker Founded in 1876





• We believe that the only way to manage consistency, and our destiny is to be in control of the complete supply chain from wheat to flour. That is from the knowledge of plant breeding and wheat genetics, to farming and agronomy, supply chain logistics and finally setting the highest standards of flour milling requirements.

Bob Beard, Warburtons UK





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On behalf of all of us at the US Wheat Associates team.....

Thank you for your attention, and thank you for your valued business over the past year. We wish you every continued success in the future.





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