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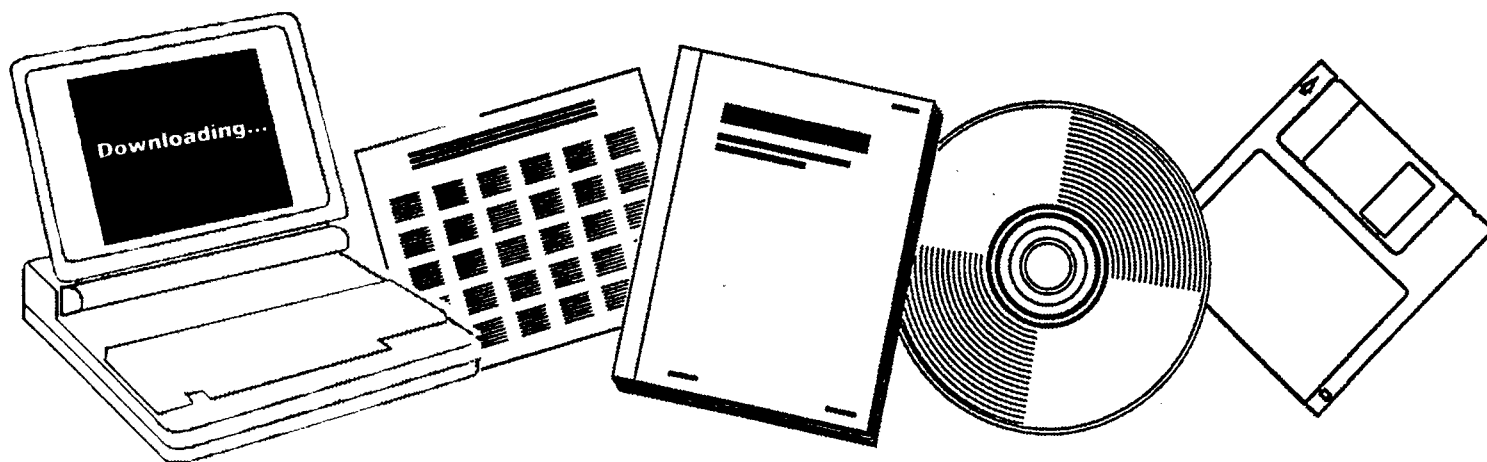
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**EFFECT OF ALTERNATIVE FUELS ON THE
STABILITY AND LUBRICITY OF CRANKCASE
LUBRICANTS. FINAL REPORT, SEPTEMBER
1992--SEPTEMBER 1993**

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**Final Report Submitted to
DOE/OTM Tribology Program**

September 1992 - September 1993

Project Title:

The Effect of Alternative Fuels on the Stability and Lubricity of
Crankcase Lubricants

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Summary Statement

Energy and environmental concerns have created a major thrust in the U.S. towards alternative fuels for internal combustion engines. One of the main problems associated with the utilization of alternative fuels is the effect of these fuels on the performance of the engine and its lubrication systems. The potential lubrication problems can be severe and quite diverse, depending upon the specific characteristics of the alternative fuel chemistry, the composition of the base lubricant and its additives and the characteristics of the bearing materials in the engine. For example, in the case of alcohol fuels (methanol or ethanol), small amounts of the alcohol in the crankcase can cause phase separation of components of the lubricant base stock and additive package, leading to excessive wear and/or lubricant degradation. In contrast, in the fuel injection system, small quantities of the lubricant are exposed to large quantities of the alcohol fuel which can lead to extract (fuel soluble) and raffinate (fuel insoluble) phases which can cause injector plugging and/or excessive injector wear.

The purpose of this research is to study the effect of alternative fuels on the functioning of crankcase lubricants with these three main goals:

1. Develop simple, rapid test protocols to evaluate the influence of alternative fuels on the stability and lubricity of lubricants under conditions simulating engine operation. The objective is to have these test protocols serve industry as a precursor evaluation procedure before expensive engine tests are conducted. The reliability of these test procedures to predict the influence of additives on lubricant performance under actual operating conditions will be determined by comparison of these test results with available engine and fleet tests.
2. Use the developed test procedures to evaluate commercially available lubricants for applications with alternative fuels and determine the influence of various bearing materials, including conventional steel as well as advanced ceramic materials.
3. Use the test procedures to evaluate classes of lubricants and lubricant additives as well as fuel additives, and develop lubricants and additives for compatibility with specific alternative fuels.

The work required to obtain these goals was broken down into a series of tasks and a timetable for these tasks was developed. The description of the individual tasks and timetable is presented in Appendix A. This information was taken directly from the original proposal for this work. The work was conducted following this timetable with the exception that an additional task of developing a bulk oxidation technique was introduced. Because of the paucity of available used lubricants from engines fueled with alternative fuels, it was necessary to develop a bulk oxidation test which would simulate lubricant degradation occurring in engines using alternative fuels. Progress on development of the desired bulk oxidation tests are presented at the end of this report. Following the original plan, work was initiated on the use of methanol as an alternative fuel, and then was extended to M-85 fuel.

As planned, an extraction protocol was developed in the first six months of the project for two distinct cases. These cases are the phase stability problems associated with crankcase oil contacting a small amount of methanol, and the extraction of methanol-soluble components from the lubricant by large quantities of methanol to simulate conditions that exist in the area of the fuel injector. This work is identified as Task IA in the project plan (see Appendix A).

After the extraction protocol was developed, the procedure was used to determine the composition of the extract and raffinate phases as described in Task IB. Concurrently, a technique was developed utilizing the Penn State microoxidation test to evaluate the oxidative stability of the various fractions of the lubricant which are distributed by the extraction protocol (Task IIA). Concurrently with this work, work was initiated on Tasks IIB and IIC.

The study of two diesel lubricants designed for methanol-fueled engines were used with the stability and wear test to quantify problems in this area. The resulting data show that contamination with small amounts of methanol in the crankcase can preferentially precipitate additives and reduce the stability and lubricity of the remaining lubricant. In the fuel injection system where large amounts of fuel are involved, the effects of the fuel can significantly reduce the stability and increase the wear.

In addition to the stability studies on the samples resulting from the extraction protocol, a sequential four-ball wear test was developed and utilized with small lubricant samples to elucidate the wear characteristics resulting from the extraction protocol. This effort is described in Tasks IIIA and IIIB.

Finally, some preliminary studies were conducted with M-85 alternative fuel. These preliminary studies indicate that M-85 may cause more lubrication problems in engines than was realized with methanol fuel. The base oils in the lubricant are often more soluble in M-85 than methanol, but the additive package solubility has not changed significantly. Consequently, the raffinate phase can be comprised of a small amount of the higher molecular weight base oil and additives that are not completely soluble in this residual base oil.

In conclusion, test procedures have been developed to produce lubricant fractions which can be caused by contact with alternative fuels in the crankcase and the area of the fuel injector. Associated test procedures have also been developed so that the oxidative stability and the wear characteristics of the lubricant fractions from the extraction protocol can be evaluated. Although these test procedures have been used to evaluate some lubricants, the significant impact of these tests on the development and evaluation of lubricants for alternatively fueled engines has only been initiated, and these tests should be the basis for extensive future studies.

There was strong interaction between this project and industry. The most significant interaction occurred with the Detroit Diesel Corporation, which supplied lubricants developed for alternative fuel usage, as well as used lubricants. Throughout the project, a continuing dialog was maintained between Detroit Diesel to compare their experiences with fleet operations and the experimental work of this project. The project also resulted in interactions with Mobil Oil and Texaco.

Introduction:

In methanol-fueled spark ignition and diesel engines, the crankcase lubricant is used to lubricate the bearings, valves, piston ring-cylinder wall area, and the fuel injector. In essentially all current commercial crankcase lubricants, the base oils are not completely soluble in methanol. In general, the additive packages may even be less soluble than the base oils. This produces an extract phase (methanol soluble) which contains the less viscous portion of the base oil, as well as the methanol soluble additives.

The raffinate phase (methanol insoluble) contains the viscous portion of the base oils along with the methanol insoluble portion of the additive package. In some cases, the raffinate phase on a methanol-free basis may consist of two phases because the additives in the phase may not be soluble in the portion of the base oil contained in this phase. This problem is more serious in the higher SAE grades of crankcase oil and more particularly, in those viscosity grades that contain more heavy-duty additive packages. The fuel injector is lubricated with a small amount of crankcase lubricant in the presence of a large amount of methanol fuel.

The oil in the crankcase also presents a methanol compatibility problem. A small amount of methanol added to the oil in the crankcase produces an insoluble or precipitate phase. During the start-up of an engine, "blow by" from the combustion chamber provides unburned and partially burned fuel as a contaminant in the lubricant. This crankcase dilution consists of small quantities of methanol and water which are not compatible with the lubricant and results in the formation of a second phase, or precipitate. "Blow by" contamination of a gasoline engine at start-up may result in the build-up of 3-5% crankcase contamination. It may take 20 miles of normal driving to remove this "blow by" contamination. To represent many engine starts, a single contamination of 20 % methanol in the crankcase was used. This single contamination is based on the notion that some of the lubricant components that are precipitated in each engine start-up are not completely redissolved in the crankcase oil.

The Penn State microoxidation test was used to show changes in the lubricant stability due to changes in the lubricant additive package after methanol - lubricant contact. The Penn State microoxidation test conducted at 225°C has been shown to be useful for correlating results of lubricant stability in III series automotive engine tests. Microoxidation tests at 245°C have been shown to correlate well with Caterpillar heavy duty diesel engine data bases. A 30-minute test at 225°C can show evidence of stability loss under mild operating conditions, while a 120-minute test is considered a severe test of lubricant stability.

A sequential four-ball wear test and a scuffing load test have been developed to show the effectiveness of anti-wear behavior in lubricants which have been used to predict wear in heavy duty hydraulic equipment and automotive engines. The test condition in the previous correlation studies included 52-100 steel balls and a 10 kg load [1.43 GPa (208,000 psi) initial Hertz bearing loading]. The limited sample size after methanol extractions requires that this 10 ml oil charge test in the four-ball wear tester be modified to run on much smaller samples. The development and use of small volume four ball wear tests is described in this report.

The general test protocol described in this report has been used to evaluate a series of new and used lubricants used in urban buses powered by Detroit Diesel engines fueled with methanol. The resulting stability and lubricity tests on the extract and raffinate fractions as well as the sample from each lubricant after contamination with 20 % methanol were compared with performance data for the same lubricants in the bus fleet. These comparisons show strong correlative trends between these laboratory tests and the performance of the lubricants in the bus fleet. This report deals with the improvement of the tests involved in this study and includes additional details on the various tests used in the protocol.

Test Development:

Penn State Microoxidation Test has been developed for the purpose of quantitative evaluation of lubricant degradation at high temperature and combines a thin film oxidation test with Gel Permeation Chromatography (Size Exclusion Chromatography). The analysis from this test procedure is designed to show evaporation, oxidation product, and remaining oil fractions as a function of molecular weight and also the deposit forming tendency of the lubricant. In this study, tests are performed using a 20 μ l sample, test temperature is controlled at 225°C, air flow rate controlled at 20 cc / minute and the test durations are 30 and 120 minute respectively, for the original lubricant and the extract and raffinate fractions of the lubricant. The percentage of the deposit formed is the only property measured in this study. It is necessary to reduce the lubricant sample size in the four-ball wear tests to accommodate the small test samples available. Hence, to accommodate the small samples, the four ball wear tester has been modified to enable the wear test to be performed with sample volumes as low as 0.2 cc. In this new design, three stationary balls are placed in a carefully machined steel insert that takes up 99.8 per cent of the volume normally occupied by the lubricant. This insert is the only modification or addition to the assembly and use of the four ball wear tester in these studies. To evaluate the influence of sample size on wear characteristics, a second insert was made to replace only 80 per cent of the lubricant normally used in the four ball wear test. A series of sequential four-ball wear tests have been conducted to demonstrate the effects of sample size. Tests using 10 ml, 2 ml, and 0.2 ml samples have been studied for the base oil, base oil - tricresyl phosphate (TCP) blends, and blends of base oil-zinc dithiophosphates (ZDP). The results of this studies are shown in Figures 1, 2, and 3.

Table 1 contains the data for the "run in" and "steady state" wear for the oil tested. The Hertz elastic deformation is considered to represent zero wear. During the first 30 minutes wear in the four-ball tester at 600 rpm, 75°C and 10 kg load, the "run in" portion of the wear has occurred. Tests conducted for several additional 30-minute increments demonstrate a different but constant rate of wear which is considered to be a "steady-state" wear rate. It can be seen from Figure 1 that the "run in" wear rate does

change for a base oil as the sample volume changes. The "steady state" rate of wear, however, does not change for the base oil as the sample size changes.

Figure 2 indicates that for base oil containing 1%TCP, the smaller sample shows a lower "run in" wear than the larger sample. The differences in "run in" wear rates for the blend are less than the base oil alone. Again, the "steady state" wear rates for the samples containing TCP are the same for both sample sizes. Figure 3 contains wear rate data for the "run in" and "steady state" at two sample sizes for a lubricant containing 1% ZDP. In this case, the wear rates are the same for both sample sizes.

Almost all current conventional crankcase lubricants contain zinc dithiophosphate (ZDP), some special lubricants compounded with ashless additive packages may more closely resemble the wear values obtained with TCP. The steady state rate of wear is the more important value in this study since the additional package in commercial lubricants are not generally disclosed. However, an increase in either "run in" or "steady state" wear of the extract over the original lubricant would indicate a loss of effectiveness of the anti-wear additive. Scuffing in the four-ball wear tester can be described as the case where the incremental wear for any 30-minute increment exceeds 0.2 mm in wear scar diameter. In many cases, the change in this scuffing criteria is more prominent than the change in "run in" or "steady state" wear. The scuffing load test used started at 40 kg and was increased in 20 kg increments until scuffing occurred. Again, a drop in scuffing load of the extract fraction below that of the original would indicate a loss of effectiveness of the additive package.

Experimental Procedure Designed To Simulate the Condition in a Fuel Injector System:

The volume ratio of the methanol fuel to the lubricant is almost infinite in the fuel injector. Based on solubility tests (Section 3) an extraction ratio of methanol to oil of 1000:1 was chosen to simulate the extraction occurring in the fuel injector. A detailed description of the test procedure is described below:

1. Eight 500 milliliter flasks are used in this extraction procedure. 500 milliliter of methanol is added to each flask, and then 0.5 cc of the lubricant is added. The system is sealed against spills and then well shaken.
2. All eight flasks are then kept for 24 hours in a water bath at 25°C.
3. To separate the extract and the raffinate phases, the flasks are removed from the water bath and the extract phase is decanted carefully into a 5 liter distillation flask.
4. Most of the methanol in the 5-liter flask can be separated by distillation controlled at 65°C.
5. The raffinate remaining in the 500 milliliter flasks is collected by diluting with hexane and collecting the solution in a 125 milliliter filtration flask. Vacuum distillation at 25 mm of Hg pressure is used to strip the solvent out of the system. The sample collected is the raffinate phase.
6. To collect the extract phase the distillation at atmospheric pressure is stopped when approximately 50 milliliters of the mixture remains in the 5-liter flask. The solution is then transferred to a 125-milliliter flask for final methanol recovery by vacuum distillation at 25 mm Hg pressure.
7. Penn State microoxidation tests are conducted with both the extract and raffinate phases. Test conditions include 20 μ l of sample, 225°C, and test times of 30 and 120 minutes.
8. Sequential four-ball wear tests are conducted with both phases. The test conditions include 40-kilogram loading, 600 rpm, test times of 30 and 60 minutes and the volume of the lubricant is 0.2 milliliter.
9. Scuffing tests are conducted with the samples collected. This test consists of a 0.2 milliliter sample running for 30 minutes in the four ball wear tester at 40-, 60-, 80-, and 100 kilogram loads until scuffing is detected. Scuffing in this type of test is defined as an increase in wear scar of 0.2 mm diameter or more (Δ wear) in a 30 minute "run in" or "steady state" sequence.

Experimental Procedure Designed to Simulate the Condition in the Crankcase:

During the cold start of an engine, the lubricant in the crankcase is diluted with some unburned methanol fuel. The fuel evaporates from the system when the crankcase gets hot which may take from 30 to 60 minutes depending on engine operating conditions. This process is repeated every time the engine is started after a long shut down. To simulate this process in the laboratory on the bench scale, the lubricant is contaminated with a one time charge of 20% methanol. The clear lubricant layer of the mixture is removed, and the methanol removed by vacuum distillation. This lubricant sample experimental procedure is described below :

1. The lubricant is mixed with 20% methanol in a screw top test tube and then shaken for two hours using a mechanical shaker.
2. The mixture is allowed to settle for 3 hours where there is a clear separation between the phases.
3. Ten milliliters of the clear lubricant phase is removed using a syringe.
4. This lubricant sample is then vacuum stripped to remove the methanol.
5. Penn State microoxidation tests are conducted with the vacuum-stripped sample. Test conditions include 20 μ l of sample, 225°C, and test times of 30 and 120 minutes.
6. Sequential four-ball wear tests are conducted with the sample. The test conditions include 40-kilogram loading, 600 r.p.m., test times of 30 and 60 minutes, and the volume of the lubricant used is 0.2 milliliter.
7. Scuffing four-ball wear tests are also conducted with the sample. The test conditions start at 40 Kg and proceed in 20 Kg increments until scuffing (Δ wear of 0.2 mm or higher) occurs.

Study Conducted on Two Diesel Crankcase Lubricants Designed for Use With Methanol Fuel

Two diesel lubricants designed for use with methanol-fueled engines were used in this study. These lubricants A and B were run in methanol-fueled diesel engines by the Detroit Diesel Corporation.

Samples of both the new and used lubricants were available for study with the Penn State procedure described in this report. A limited amount of data were also obtained with lubricants A and B using methanol containing fuel additives L and M. These fuel additives were used to improve injector wear and plugging.

Solubility:

The experimental procedure to determine lubricant solubility at various volume ratios of methanol has been described in the test procedure designed to simulate the condition in the fuel injector.

Extractions with methanol were carried out using new lubricants A & B and crankcase draining from lubricants A & B after approximately 5,000 and 10,000 miles in a methanol-fueled diesel engine, respectively. The result of one of the extractions is shown on Figure 4. These data show that at dilutions of 1000:1 solvent:oil ratio, the used oil increases in solubility with use in the engine. These extraction studies are the basis of the 1000:1 solvent:oil ratio used to evaluate behavior of the lubricant in the fuel injector system. The GPC curves for the same lubricants are shown in Figures 5 and 6 and indicate the relative distribution of the extract and raffinate phases. The extract phase shows that the methanol soluble material has a lower molecular weight than the original. The extract phase also has a lower refractive index than the raffinate. It is not clear that this difference in refractive index is due to the separation of the additive package or the types of hydrocarbon structures in the two fractions.

Study of Stability and Wear properties after 20% Methanol contamination:

Both lubricants A and B were treated with 20% methanol to simulate crankcase dilution. In both cases, the formation of a precipitate was observed. The clear methanol-free lubricant fractions were evaluated for oxidative stability as shown in Table 2. These data show a decrease in stability due to the crankcase dilution effect. The samples generated in these crankcase dilution studies were also evaluated

in the small volume sequential four-ball test as shown in Table 3. These data show no decrease in anti-wear effectiveness for lubricant A. There was, however, an increase in wear noted for lubricant B.

Stability and Wear properties of Raffinate and Extract phases:

Previous extraction studies are the basis of the 1000:1 solvent:oil ratio used in these studies to evaluate behavior of the lubricant in the fuel injector system. Tables 4, 5, and 6 show the behavior of oils A and B with methanol, methanol+L, methanol+M, and methanol+M+2 %H₂O.

In Table 4, microoxidation tests are used to compare the stabilities of the extract and raffinate fractions with that of the original lubricant. It is believed that fuel additives L and M in this study contain both dispersants and anti-wear additives to improve the problems of plugging and cylinder-piston wear in the injector. These oxidation stability data show some interesting trends. In the case of lubricant A, the extract phase shows much better deposit values than the raffinate phase. In all cases, the extract phase of lubricant A shows some corrosion rather than a deposit under the 30-minute test. Only in the case of extraction with methanol-containing fuel additive L is there evidence of greater deposits for the extract phases after 120 minutes test than for the original oil. These data suggest that the additive package is very sensitive to the effects of methanol extraction. Lubricant B produces fractions from the methanol extraction that appear to be less stable than those of lubricant B. The effects of methanol on lubricant stability with and without additives and contaminants appear to be very complex.

The extract phase is methanol with a small quantity of base oil and additives. The physical properties as well as the oxidative stability of the extract phase should have little or no effect on plugging the injector. On the other hand, the raffinate phase, which contains high molecular weight (more viscous) portion of the lubricant as well as fractions of the additive package which may not be as soluble in the base oil in the raffinate, does represent a potential problem for injector plugging.

The data in Table 5 show the lubricity of the same fractions that were measured for stability and shown in Table 4. In general, the wear properties of the raffinates are better than those of the extracts.

It is clear from the data that only in the case of extraction with pure methanol, without additives is the wear of the raffinate close to that of the original lubricant. In general, the wear properties of the fractions from these extractions are significantly increased. These increases appear to be due to the separation of the total additive package in the extraction. Differences in the wear properties between new and used lubricants are shown in Table 7. The used oil has significantly higher wear rate and confirms the depletion or change in the antiwear additive package in the oil after it has been in the engine. The scuffing loads for the extract fractions of A and B are shown in Table 6. It can be seen that in all of the cases shown, the extract phases show higher "run in" wear than the original. In all cases except the extract phase of lubricant A using methanol with fuel additive L, the scuffing loads of the extract phases are significantly lower than those of the original lubricants.

Development of Bulk Oxidation Test To Simulate Methanol Fueled Engines:

Experiments have been conducted to develop a bulk oxidation test to produce lubricant degradation equivalent to that in a methanol fueled bus engine after 10,000 miles of operation. This oxidized oil sample and a crankcase drain sample from an actual engine that has run 10,000 miles on methanol can be compared using analytical techniques to verify the severity of the bulk oxidation procedure. Drain samples of lubricant B represent 10,000 miles of use in an urban bus while drain sample A represents about 7,000 miles. Both lubricants have been included in this study of bulk oxidation. The bulk oxidation test was designed to use the same test cell as the microoxidation test. A test temperature of 225°C was chosen to simulate the temperature typically found in the hot zone of an engine. Iron powder (1 gram) was used to provide a large catalytic surface area. The air inlet tube in the current microoxidation reactor was extended to within 0.6 cm of the bottom of the reactor. An air flow of 5 liters of air per hour was injected through the air inlet tube to disperse the air and iron powder catalyst throughout the 10 ml oil sample.

Tests of 8 and 10 hours were run on new oils A and B in the 10 ml bulk oxidation test using one gram of iron powder. Two additional 8 hour, 10 ml tests were run on oil using no catalyst and a single piece of low-carbon steel sheet. These test results are compared with the oil drain samples and 30-minute microoxidation samples on Table 8. The oxidized products in these test samples were measured by a combination of clay percolation and GPC analysis. These tests show the 8-hour bulk test with iron powder to be about the same severity as the 30-minute microoxidation test at 225°C and somewhat more severe than the engines after 7,000 to 10,000 miles. The 10-hour bulk tests are almost twice as severe as the engines in producing oil degradation.

The 30-minute microoxidation deposit test on the drain samples and 8-hour bulk oxidized samples of oil B are shown in Table 9. These data show the degree of oxidation of these two samples to be about the same. The extract and raffinate samples from the drain and the 8-hour bulk microoxidation test also show good agreement.

Some additional data are available for the drain samples of oils A and B. The pick up of iron in these two samples with use is shown in Table 10. The oil solubility in methanol for the new oil samples, the oil drain samples, and 30-minute microoxidation samples are shown in Table 11. With both lubricants, the used and oxidized samples show a substantial increase in methanol solubility. These data suggest that the raffinate phase will contain less base oil. The base oil in the raffinate phase of most oils studied did not provide an adequate solvent for the additive package found in the raffinate. These data suggest that further studies of the additive split between the extract and raffinate should be studied on oil drain, bulk oxidized, and microoxidized samples. The metals in the additive package can easily be measured in these fractions by atomic absorption spectroscopy. The metals of most interest in most packages are Ca, Mg, and Zn.

The total amount of oxidation in the oil drain, 30-minute microoxidation test, and 8-hour bulk oxidation tests are determined by comparing the GPC curves of a clay percolated sample from a given test with an equal volume of oxidized lubricant before the clay percolation. The amount of polymerized and

oxidized lubricant can be shown directly by superimposing the GPC curve of the original sample with that of the oxidized sample. The oxidized and polymerized oil will be defined by the portion of the GPC curve that has a higher molecular weight than the original sample. The oxidized and polymerized material in the samples already discussed for total oxidation are shown graphically in Figures 7 through 10.

In Figure 7, the amounts of oxidized and polymerized product in the drain sample and the 30-minute microoxidation test of oil are essentially the same. This product is a relatively small fraction of the total oxidized product as shown in Table 8. The case of the 120-minute microoxidation test illustrates a large amount of oxidized and polymerized product by comparison.

Figure 8 shows comparable oxidation polymer products for oil A. In this case, the 30-minute microoxidation is measurably more severe in producing oxidation polymer than the drain sample. The 120-minute microoxidation test produces a much higher molecular weight oxidation polymer in oil A than the comparable test with oil B.

A comparison of the oxidation polymer production for both oils A and B by engine use and bulk oxidation are shown in Figures 9 and 10. In both cases, the total oxidized product shown in Table 8 is noticeably higher for the bulk oxidation than from the engine drain samples. This same trend is shown in both oils for the amount of oxidized polymer as well. It does appear that the bulk oxidation procedure described in this report is capable of simulating the damage done by the engine to oil in the crankcase. More drain samples will be sought to improve the correlation between time in various engines and time in this newly developed bulk test.

Studies of M85 Alternate Fuel:

Alternative fuel M85 (85% methanol and 15% hydrocarbons) has also been tested in this program. The first milestone was achieved in the second quarter where test methods were established to simulate engine conditions with methanol fuels. The extraction procedure developed for the methanol fuel and the logic behind its implementation have been dealt with in previous reports. A 1000:1 extraction of M85

to oil was performed using the same lubricants A and B. Modification of the extraction procedure was required in the final stages to get a solvent-free extract since gasoline has a higher boiling point than methanol. In the vacuum stripping step, the extract phase which was heated to a temperature of around 150° C and nitrogen was used as a stripping aid to remove all the gasoline. A comparison of the GPC curves of the extract phases after methanol extraction and M85 extraction are shown in Figures 11 and 12. The extract phase with M85 seems to have a slightly higher molecular weight distribution than that of the extract phase with methanol. Further analysis (microoxidation, wear tests, and atomic absorption) of the fractions generated from the M85 extraction have to be performed. Preliminary studies show that M85 may provide more problems than methanol. The base oils appear to be more soluble in M85 than methanol, but the additive package solubility has not changed significantly. This predicts that the raffinate phase may be comprised of a small amount of higher molecular weight base oil and additives that may not be completely soluble in this residual base oil.

Table 1. Wear Values vs. Samples Size in the Four-Ball Tester

Lubricant	Volume	Δ Wear (mm)	
		Run-In	Steady State
Base Oil	10 ml	0.24	0.09
	0.2 ml	0.12	0.08
Base Oil + 1% TCP	10 ml	0.18	0.07
	0.2ml	0.14	0.07
Base Oil + 1% ZDP	10 ml	0.07	0.03
	0.2 ml	0.07	0.03

Table 2. Microoxidation Tests; 20 μ l Samples; 225°C; In Air

Lube	Time, Min	Original wt. % Deposit	20% MeOH wt. % Deposit Contamination
A	30	0.0	0.9
A	120	9.3	12.6
B	30	0.5	1.4
B	120	5.4	6.6

Table 3. Wear Tests; 0.2 ml; 40 kg; 75°C; 52100 Steel; 30 Minutes

Cond.	Lube	Original wt. % Deposit	20% MeOH wt % Deposit Contamination
R-I	A	0.02	0.02
S-S	A	0.01	0.01
R-I	B	0.04	0.05
S-S	B	0.00	0.02

Table 4. Microoxidation Tests; 20 μ l Samples; 225°C; In Air

Lube	Time Min.	Orig.	MeOH		MeOH + L ⁽¹⁾		MeOH + M ⁽¹⁾		MeOH + M ⁽¹⁾ + 2 % H ₂ O	
			wt % Deposit:							
			Raf	Ext	Raf	Ext	Raf	Ext	Raf	Ext
A	30	0.0	5.9	-0.2	1.7	-0.4	1.8	-0.4	3.0	-1.0
A	120	9.3	12.0	0.5	7.7	25.1	8.8	5.4	19.2	2.6
B	30	0.5	0.8	0.1	3.7	4.1	5.8	-0.5	2.6	3.6
B	120	5.4	8.2	12.0	16.1	30.0	26.1	16.1	11.9	7.8

(1) 0.06 % fuel additives L and M are used

Table 5. Wear Tests: 0.2 ml; 40 kg; 75°C; 52100 Steel; 30 Minutes

Cond	Lube	Orig.	MeOH		MeOH + L ⁽¹⁾		MeOH + M ⁽¹⁾		MeOH + M ⁽¹⁾ + 2 % H ₂ O	
			wt % Deposit							
			Raf	Ext	Raf	Ext	Raf	Ext	Raf	Ext
R-I	A	0.02	0.04	0.10	0.16	0.10	0.08	0.13	0.16	0.11
S-S	A	0.01	0.01	0.08	0.15	0.09	0.05	0.08	0.14	0.07
R-I	B	0.04	0.02	0.07	0.12	0.13	0.08	0.12	0.13	0.20
S-S	B	0.00	0.02	0.03	0.11	0.13	0.07	0.09	0.03	0.10

(1) 0.06 % fuel additives L and M are used

Table 6. Scuffing Load: 0.2 ml; 75°C; 52100 Steel; 30 minutes

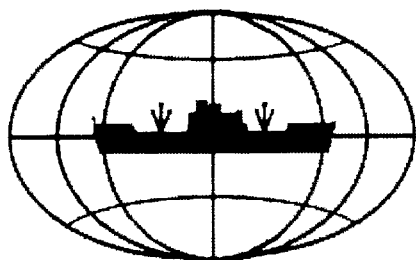
Lube	Load, Kg	Orig Δw , min	MeOH	MeOH+L ⁽¹⁾	MeOH+M ⁽¹⁾
			Ext Δw , min	Ext Δw , min	Ext Δw , min
A	40	0.02	0.10	0.10	0.13
	60	—	0.10	0.10	0.30
	80	0.05	0.38	0.13	—
	100	0.59	—	0.71	—
B	40	0.04	—	0.13	0.12
	60	0.07	—	0.17	0.33
	80	0.18	—	0.22	—
	100	0.60	—	—	—

(1) 0.06 % fuel additives L and M are used

Table 7. Four-Ball Wear Tests
40 Kg; 75°C Δ Wear

Lubricant	Run-In, Δw min	Steady-State Δw min
A	0.02	0.01
Used A	0.11	0.05
B	0.04	0.00
Used B	0.16	0.08

Hertz area = 0.30 min at 40 Kg load on 52100 steel



U.S. EXPORT SALES

- Outstanding Export Sales
(Unshipped Balances)
on Aug. 26, 2004
- Export Shipments in
Current Marketing Year
- Daily Sales Reported
Aug. 20 - Aug. 26, 2004

As Reported by Exporters

NOTICE TO USERS: The new marketing year for corn, grain sorghum, and soybeans began September 1, 2004. Outstanding 2003/2004 sales of these commodities will be carried forward by reporting exporters for delivery in the 2004/2005 marketing year. Special tables showing summary data for the 2003/2004 marketing year will be published in the report to be released on September 10, 2004.



U.S. DEPARTMENT
OF AGRICULTURE
WASHINGTON, D.C. 20250

FOREIGN
AGRICULTURAL
SERVICE

EMBARGOED UNTIL 8:30 AM

SEPTEMBER 2, 2004

U.S. EXPORT SALES

THIS REPORT IS BASED ON INDIVIDUAL REPORTS SUBMITTED BY PRIVATE EXPORTERS AND IDENTIFIES OUTSTANDING SALES AND ACCUMULATED EXPORTS OF SELECTED U.S. AGRICULTURAL COMMODITIES. THE REPORT IS PUBLISHED WEEKLY, NORMALLY ON THURSDAY MORNING AT 8:30 A.M. IT IS AVAILABLE IN "HARD COPY", ON THE "INTERNET", AND ON "STAT-USA" ELECTRONIC BULLETIN BOARD.

OUTSTANDING EXPORT SALES AS REPORTED AND COMPILED WITH OTHER DATA GIVE A SNAPSHOT VIEW OF THE CURRENT CONTRACTING SCENE. AT ANY GIVEN TIME IN THE COURSE OF A MARKETING YEAR, OUTSTANDING SALES DO NOT BEAR A CONSISTENT RELATIONSHIP TO EVENTUAL EXPORT SHIPMENTS. A MEANINGFUL EXPORT PROJECTION IS NOT OBTAINABLE BY SIMPLY ADDING OUTSTANDING SALES TO EXPORTS TO DATE. THE LATTER DATA, ALONE, PROVIDE A MORE RELIABLE MEASURE OF CURRENT EXPORT ACTIVITY THAN MAY BE DERIVED FROM A YEAR-TO-YEAR COMPARISON OF OUTSTANDING SALES.

THE HARD COPY VERSION INCLUDES ALL COUNTRIES WITH OUTSTANDING SALES OR ACCUMULATED EXPORTS FOR EACH CLASS OF WHEAT, ALL WHEAT, WHEAT PRODUCTS, BARLEY, CORN, SORGHUM, SOYBEANS, SOYBEAN CAKE AND MEAL, SOYBEAN OIL, SUNFLOWERSEED OIL, AMERICAN PIMA COTTON, ALL UPLAND COTTON, ALL RICE, CATTLE HIDES AND SKINS, WET BLUES, AND BEEF. THE ELECTRONIC VERSIONS ALSO INCLUDE THE COUNTRY BREAKDOWN BY CLASSES FOR RICE AND COTTON.

WHEAT PRODUCTS INCLUDE: ALL WHEAT FLOUR (INCLUDING CLEARS), BULGUR, SEMOLINA, FARINA AND ROLLED, CRACKED AND CRUSHED WHEAT.

REGIONS MAY NOT ADD DUE TO ROUNDING. ASTERISK (*) DENOTES QUANTITY IS LESS THAN .05. EXPORTS FOR OWN ACCOUNT INCLUDES UNSOLD COMMODITIES SHIPPED ABROAD AND THOSE IN TRANSIT FROM THE U.S. TO FOREIGN PORTS.

CONVERSION FACTORS: BUSHELS OR CWT PER METRIC TON 1/

COMMODITY	UNIT	POUNDS PER UNIT	NUMBER OF UNITS PER METRIC TON
WHEAT	BU	60	36.743333
SOYBEANS	BU	60	36.743333
CORN	BU	56	39.367857
GRAIN SORGHUM	BU	56	39.367857
BARLEY	BU	48	45.929166
OATS	BU	32	68.893750
RICE	CWT	100	22.046

1/ A METRIC TON EQUALS 2,204.6 POUNDS

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ADDITIONAL INFORMATION CONCERNING THE EXPORT SALES REPORTING SYSTEM AND THE DATA PRESENTED IN THE REPORT CAN BE OBTAINED BY CONTACTING EXPORT SALES REPORTING, FOREIGN AGRICULTURAL SERVICE, WASHINGTON, D.C. 20250, TELEPHONE: (202) 720-9209 OR FAX: (202) 690-3273.

METHODS OF OBTAINING DATA CONTAINED IN THIS REPORT INCLUDE:

SUBSCRIPTION: FROM THE NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)
U.S. DEPARTMENT OF COMMERCE, TECHNOLOGY ADMINISTRATION
SPRINGFIELD, VA 22161 TELEPHONE (703) 605-6060
COST -- DOMESTIC \$369.00 FOREIGN AIRMAIL \$738.00

INTERNET: <http://www.fas.usda.gov/export-sales>

BULLETIN BOARD FAX: SET YOUR FAX MACHINE FOR POLLING AND DIAL
SUMMARY DATA 202 690-3275
COTTON 202 690-3273
CATTLE HIDES AND SKINS 202 690-3270

THE EXPORT SALES REPORT IS PREPARED BY TIM ROCKE, CAROLYN HENDRICKS, VIVIAN RAMEY, JOYCE WALLACE, AND VALERIE COUNTISS.

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Export Sales Highlights

This summary is based on reports from exporters for the period August 20 - 26, 2004.

Wheat: Net sales of 557,500 metric tons (MT) were 9 percent below the previous week and 8 percent under the prior 4-week average. Major increases for Mexico (180,600 MT), Nigeria (104,700 MT), Japan (67,600 MT), South Korea (67,200 MT), and Yemen (28,800 MT) were partly offset by decreases for Guatemala (19,300 MT) and unknown destinations (15,000 MT). Exports of 559,900 MT were 10 percent lower than the previous week and 6 percent less than the prior 4-week average. The primary destinations were China (99,500 MT), Japan (86,800 MT), Egypt (57,300 MT), Colombia (55,100 MT), Nigeria (53,400 MT), and Mexico (45,300 MT).

Corn: Net sales of 92,500 MT were 31 percent below the week earlier and 65 percent under the prior 4-week average. Major increases for South Korea (57,800 MT), Morocco (51,700 MT), Japan (51,300 MT), Taiwan (51,300 MT), and Colombia (27,900 MT) were partially offset by decreases for unknown destinations (178,800 MT) and Costa Rica (19,500 MT). Net sales of 491,600 MT for delivery in 2004/05 (which began Sept. 1) were primarily for Mexico (208,800 MT), Japan (117,500 MT), Venezuela (59,100 MT), Taiwan (32,900 MT), the Dominican Republic (22,500 MT), and Colombia (20,000 MT). Exports of 934,600 MT were 4 percent lower than the previous week and 2 percent less than the prior 4-week average. The principal destinations were Japan (171,500 MT), South Korea (167,600 MT), Taiwan (120,500 MT), Mexico (81,000 MT), Colombia (71,300 MT), Morocco (66,700 MT), and Egypt (61,400 MT).

Barley: There were no sales or exports reported during the week.

Sorghum: Net sales of 34,700 MT resulted as increases for Mexico (35,000 MT, including 17,700 MT reported late) were partially offset by decreases for Israel (400 MT). Sales of 111,500 MT for delivery in 2004/05 (which began Sept. 1) were to Mexico (88,100 MT) and Japan (23,400 MT). Exports of 80,600 MT were 40 percent below the previous week and 24 percent under the prior 4-week average. Mexico (80,600 MT, including 30,300 MT reported late) was the destination.

Rice: Net sales of 62,700 MT were 9 percent above the previous week. The major buyers were South Korea (15,000 MT), Jamaica (14,000 MT), Mexico (9,800 MT), Haiti (9,400 MT), Germany (5,600 MT), and Ghana (5,000 MT). Decreases were reported for Nicaragua (6,800 MT). Exports of 44,600 MT were more than double the week earlier and 25 percent above the prior 4-week average. The primary destinations were Mexico (14,200 MT), Nicaragua (7,100 MT), Ghana (7,000 MT), and the United Kingdom (3,800 MT).

Soybeans: Net sales reductions of 500 MT resulted as increases for Canada (700 MT) and the Philippines (300 MT) were more than offset by decreases for Mexico (1,000 MT) and Japan (500 MT). Increases of 192,200 MT for delivery in 2004/05 (which began Sept. 1) were primarily for Egypt (60,000 MT), Japan (50,300 MT), unknown destinations (44,000 MT), China (21,000 MT), and Mexico (16,700 MT). Exports of 76,500 MT were 2 percent above the previous week and 27 percent over the prior 4-week average. The primary destinations were Japan (43,100 MT) and Mexico (27,400 MT).

Soybean Cake and Meal: Net sales of 2,000 MT were 96 percent below the previous week and the prior 4-week average. Increases for Mexico (8,100 MT), the United Kingdom (4,000 MT), and Guatemala (1,100 MT) were partially offset by decreases for Japan (6,600 MT) and Ireland (4,000 MT). Sales of 70,800 MT for delivery in 2004/05 were mainly for Canada (18,500 MT, including 8,500 MT switched from 2003/04), Mexico (12,000 MT), Australia (10,000 MT), the Dominican Republic (10,000 MT), and Japan (8,000 MT--all switched from 2003/04). Exports of 63,800 MT were two and two-fifths times the week earlier and two and one-half times the prior 4-week average. The primary destinations were Venezuela (24,300 MT), Canada (19,800 MT), and Mexico (13,200 MT).

Soybean Oil: Net sales increases of 600 MT were for unknown destinations (500 MT) and Australia (100 MT). Sales of 10,700 MT for delivery in 2004/05 were for Mexico (10,200 MT) and Canada (500 MT). Exports of 3,800 MT were primarily to Nicaragua (1,500 MT), Canada (1,300 MT), and Mexico (900 MT).

Cotton: Net Upland sales of 205,800 RB were 78 percent above the week earlier. The major buyers were Thailand (50,900 RB), South Korea (26,600 RB), Ireland (22,500 RB), Turkey (19,700 RB), Pakistan (19,300 RB), Japan (17,700 RB), Mexico (17,000 RB), and Indonesia (16,300 RB). Sales of 7,500 RB for delivery in 2005/06 were for Ireland. Exports of 171,700 RB were 6 percent above the previous week, but 29 percent under the prior 4-week average. The primary destinations were India (31,000 RB), Belgium (25,100 RB), Turkey (21,600 RB), Mexico (17,900 RB), Pakistan (15,600 RB), and Indonesia (14,800 RB).

Hides and Skins: Net sales of 341,000 pieces were 29 percent below the previous week and 26 percent under the prior 4-week average. Whole cattle hide sales of 310,600 pieces were primarily for South Korea (126,200 pieces), Taiwan (64,000 pieces), and Japan (50,000 pieces). Exports of 438,100 pieces were 6 percent below the previous week and 12 percent under the prior 4-week average. Whole cattle hide exports of 403,000 pieces were mainly for China (161,400 pieces) and South Korea (108,100 pieces).

Net sales of 118,600 wet blues (mainly unsplit) were up 67 percent from the prior week and 41 percent over the prior 4-week average. The primary buyers were Hong Kong (31,900 unsplit), Italy (29,700 unsplit), Mexico (12,800 unsplit and 2,700 grain split), the Dominican Republic (13,500 grain split), and Taiwan (13,300 unsplit). Exports of 110,600 hides were 6 percent less than the previous week and 12 percent below the prior 4-week average. The primary destinations were Hong Kong (28,900 unsplit and 1,300 grain split), Italy (27,000 unsplit), and Taiwan (14,100 unsplit and 3,500 grain split). Net sales of splits totaling 356,600 pounds were 78 percent below the previous week and the prior 4-week average. The major buyers were Hong Kong (294,500 pounds) and South Korea (45,000 pounds). Exports of 1,259,600 pounds were 50 percent below the previous week and 36 percent under the prior 4-week average. The major destinations were Mexico (463,500 pounds), China (435,500 pounds), Italy (170,800 pounds), and Hong Kong (146,300 pounds).

Beef: Net sales of 5,800 MT were mainly for Mexico (5,600 MT) and Canada (100 MT). Exports of 3,700 MT were mainly for Mexico (3,300 MT) and Canada (300 MT).

SUMMARY OF CURRENT AND PREVIOUS WEEK'S TRANSACTIONS
FOR CURRENT MARKETING YEAR BY REPORTING CATEGORY

COMMODITY	WEEK ENDING	NEW SALES 1/ (+)	PURCHASES FROM FOREIGN 2/ (-)	BUY-BACKS & CANCELLATIONS 3/ (-)	EXPORTS 4/ (-)	OUTSTANDING SALES
----- 1000 METRIC TONS -----						
ALL WHEAT	: 08/19	657.2	0.0	42.3	624.6	5789.5
	: 08/26	719.3	0.0	161.8	559.9	5787.1
WHEAT PRODUCTS	: 08/19	0.2	0.0	0.0	0.7	15.5
	: 08/26	2.6	0.0	0.0	3.6	14.5
RYE	: 08/19	0.0	0.0	0.0	0.0	0.0
	: 08/26	0.0	0.0	0.0	0.0	0.0
OATS	: 08/19	0.0	0.0	0.0	0.0	0.0
	: 08/26	0.0	0.0	0.0	0.0	0.0
BARLEY	: 08/19	0.0	0.0	0.0	0.0	10.9
	: 08/26	0.0	0.0	0.0	0.0	10.9
CORN	: 08/19	319.8	120.0	66.2	976.1	3019.1
	: 08/26	180.7	3.2	85.0	934.6	2177.1
GRAIN SORGHUM	: 08/19	38.7	0.0	0.7	135.2	258.8
	: 08/26	39.3	0.0	4.7	80.6	212.8
SOYBEANS	: 08/19	23.9	0.0	6.5	74.8	386.8
	: 08/26	2.9	0.0	3.4	76.5	309.8
SOYBEAN CAKE & MEAL	: 08/19	48.5	0.0	2.7	26.6	229.8
	: 08/26	24.2	0.0	22.2	63.8	167.9
SOYBEAN OIL	: 08/19	1.4	0.0	3.6	2.2	39.4
	: 08/26	1.1	0.0	0.5	3.8	36.2
ALL RICE	: 08/19	58.6	0.0	1.2	21.8	284.2
	: 08/26	75.2	0.0	12.5	44.6	302.2
----- 1000 RUNNING BALES -----						
ALL UPLAND COTTON	: 08/19	121.8	0.0	6.2	161.7	4207.7
	: 08/26	212.7	0.0	6.9	171.7	4241.8
AMERICAN PIMA COTTON	: 08/19	*	0.0	0.0	1.7	63.2
	: 08/26	11.2	0.0	0.1	3.8	70.6
----- 1000 PIECES -----						
CATTLE HIDES - WHOLE	: 08/19	496.0	0.0	34.7	449.7	4190.4
	: 08/26	338.6	0.0	27.9	403.0	4098.0
----- 1000 METRIC TONS -----						
BEEF	: 08/19	2.1	0.0	0.1	3.4	14.8
	: 08/26	5.8	0.0	0.1	3.7	16.9

FOOTNOTES FOR PAGES 2 & 3: DATA SHOWN MAY NOT ADD DUE TO ROUNDING.

1/ INCLUDES INCREASES RESULTING FROM NEW SALES, UPWARD CONTRACT ADJUSTMENT, SHIFTS IN DELIVERY PERIOD FROM ONE MARKETING YEAR TO ANOTHER AND CHANGES FROM ONE COMMODITY TO ANOTHER.

2/ NET FOREIGN PURCHASE ACTIVITY. A PURCHASE FROM A FOREIGN SELLER IS A TRANSACTION CONTRACTING TO BUY U.S. PRODUCED COMMODITY FROM A FIRM OUTSIDE THE U.S. -- NOT INVOLVING A CANCELLATION OR BUY-BACK OF A REPORTED SALE.

3/ INCLUDES DECREASES RESULTING FROM BUY-BACK OF ALL OR PART OF A CONTRACT BALANCE BY MUTUAL CONSENT, UNILATERAL CANCELLATION BY ONE PARTY WHICH COULD RESULT IN A CONTRACT DISPUTE, DOWNWARD CONTRACT ADJUSTMENTS, SHIFTS IN DELIVERY PERIOD FROM ONE MARKETING YEAR TO ANOTHER, AND CHANGES FROM ONE COMMODITY TO ANOTHER.

4/ DOES NOT INCLUDE EXPORTS FOR EXPORTER'S OWN ACCOUNT.

SUMMARY AND COMPARISON OF CURRENT AND PREVIOUS WEEK'S TRANSACTIONS
FOR NEXT MARKETING YEAR BY REPORTING CATEGORY

COMMODITY	WEEK ENDING	NEW SALES :1/ (+)	PURCHASES FROM FOREIGN SELLERS2/ (-)	BUY-BACKS & CANCELLA- TIONS 3/ (-)	OUTSTANDING SALES
			1000	METRIC TONS	
ALL WHEAT	: 08/19	0.0	0.0	0.0	0.0
	: 08/26	0.0	0.0	0.0	0.0
	:YR AGO	0.0	0.0	0.0	0.0
BARLEY	: 08/19	0.0	0.0	0.0	0.0
	: 08/26	0.0	0.0	0.0	0.0
	:YR AGO	0.0	0.0	0.0	0.0
CORN	: 08/19	224.1	15.0	0.0	4457.0
	: 08/26	500.2	0.0	8.5	4948.6
	:YR AGO	739.2	34.5	19.9	5563.1
GRAIN SORGHUM	: 08/19	46.1	0.0	0.0	538.2
	: 08/26	111.5	0.0	0.0	649.7
	:YR AGO	78.7	0.0	44.0	931.0
SOYBEANS	: 08/19	527.5	0.0	0.0	5164.6
	: 08/26	192.3	0.0	0.2	5356.8
	:YR AGO	257.0	0.0	0.0	7416.1
SOYBEAN CAKE & MEAL	: 08/19	14.7	0.0	0.0	651.3
	: 08/26	70.9	0.0	0.1	722.1
	:YR AGO	28.0	0.0	0.5	905.4
SOYBEAN OIL	: 08/19	3.6	0.0	0.0	44.4
	: 08/26	10.7	0.0	0.0	55.1
	:YR AGO	0.0	0.0	0.0	69.1
ALL RICE	: 08/19	0.0	0.0	0.0	0.0
	: 08/26	0.0	0.0	0.0	0.0
	:YR AGO	0.0	0.0	0.0	0.0
	:		1000	RUNNING BALES	
ALL UPLAND COTTON	: 08/19	0.4	0.0	0.1	149.8
	: 08/26	7.5	0.0	0.0	157.3
	:YR AGO	34.7	0.0	0.0	124.0
AMERICAN PIMA COTTON	: 08/19	0.0	0.0	0.0	0.0
	: 08/26	0.0	0.0	0.0	0.0
	:YR AGO	0.0	0.0	0.0	0.0
	:		1000	PIECES	
CATTLE HIDES - WHOLE	: 08/19	0.0	0.0	0.0	0.0
	: 08/26	0.0	0.0	0.0	0.0
	:YR AGO	0.0	0.0	0.0	0.0
	:		1000	METRIC TONS	
BEEF	: 08/19	0.0	0.0	0.0	*
	: 08/26	0.0	0.0	0.0	*
	:YR AGO	*	0.0	*	6.2

SUMMARY OF EXPORT TRANSACTIONS REPORTED UNDER THE DAILY REPORTING SYSTEM
COMMODITY DESTINATION QUANTITY (MT) MARKETING YEAR
FOR PERIOD ENDING AUGUST 26, 2004

WHEAT	CHINA	140,000 1/	2004/2005
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1/ Change in the class of wheat from soft red winter to hard red spring.

OUTSTANDING EXPORT SALES AND EXPORTS - CURRENT MARKETING YEAR
SUMMARY AND COMPARISON OF SELECTED COMMODITIES 1/

COMMODITY	WEEK END- ING	OUT- STANDING SALES	WEEKLY EXPORTS	CUMULATIVE EXPORTS FOR MARKETING YEAR	TOTAL COMMIT- MENT 2/	OFFICIAL USDA EXPORT PROJECTIONS
			1000 METRIC TONS	MILLION BUSHELS	1000 METRIC TONS --	
HARD RED WINTER WHEAT	08/19	1643.2	204.0	2408.6	88.5	4051.8
	08/26	1812.5	169.8	2578.4	94.7	4390.9
	YR AGO	2375.4	186.8	2835.7	104.2	5211.1
SOFT RED WINTER WHEAT	08/19	1275.1	104.9	951.6	35.0	2226.7
	08/26	1067.0	101.1	1052.7	38.7	2119.7
	YR AGO	565.0	158.4	952.0	35.0	1517.0
HARD RED SPRING WHEAT	08/19	1523.9	174.5	1615.1	59.3	3139.0
	08/26	1574.7	183.0	1798.1	66.1	3372.7
	YR AGO	1323.9	146.5	1492.1	54.8	2816.0
WHITE WHEAT	08/19	1259.4	124.9	855.4	31.4	2114.8
	08/26	1223.5	106.0	961.4	35.3	2184.9
	YR AGO	655.4	84.3	843.5	31.0	1498.9
DURUM WHEAT	08/19	88.0	16.3	148.6	5.5	236.5
	08/26	109.5	0.0	148.6	5.5	258.0
	YR AGO	165.5	38.9	231.9	8.5	397.4
ALL WHEAT	08/19	5789.5	624.6	5979.3	219.7	11768.8
	08/26	5787.1	559.9	6539.2	240.3	12326.3
	YR AGO	5085.2	614.9	6355.1	233.5	11440.4
WHEAT PRODUCTS	08/19	15.5	0.7	19.9	-	35.5
	08/26	14.5	3.6	23.6	-	38.1
	YR AGO	23.1	0.5	7.7	-	30.8
RYE	08/19	0.0	-	-	-	-
	08/26	0.0	-	-	-	-
	YR AGO	0.0	0.0	0.0	0.0	0.0
OATS	08/19	0.0	-	-	-	-
	08/26	0.0	-	-	-	-
	YR AGO	0.1	0.2	1.3	0.1	1.4
BARLEY	08/19	10.9	0.0	40.2	1.8	51.2
	08/26	10.9	0.0	40.2	1.8	51.2
	YR AGO	92.6	16.2	43.8	2.0	136.4
CORN	08/19	3019.1	976.1	46769.6	1841.2	49788.8
	08/26	2177.1	934.6	47704.2	1878.0	49881.3
	YR AGO	1899.6	917.7	39645.7	1560.8	41545.2
GRAIN SORGHUM	08/19	258.8	135.2	4615.6	181.7	4874.4
	08/26	212.8	80.6	4696.2	184.9	4909.0
	YR AGO	286.7	215.7	4740.1	186.6	5026.8
COTTONSEED	08/19	29.6	1.6	6.0	-	35.7
	08/26	30.5	3.0	9.0	-	39.5
	YR AGO	29.6	1.2	3.1	-	32.7
FLAXSEED	08/19	0.0	-	-	-	-
	08/26	0.0	-	-	-	-
	YR AGO	0.0	0.0	0.0	0.0	0.0

OUTSTANDING EXPORT SALES AND EXPORTS - CURRENT MARKETING YEAR
SUMMARY AND COMPARISON OF SELECTED COMMODITIES 1/

COMMODITY	WEEK END- ING	OUT- STANDING SALES	WEEKLY EXPORTS	CUMULATIVE EXPORTS FOR MARKETING YEAR	TOTAL COMMIT- MENT 2/	OFFICIAL USDA EXPORT PROJECTIONS
			1000 METRIC TONS		MILLION BUSHELS	1000 METRIC TONS
SOYBEANS	08/19	386.8	74.8	24031.2	883.0	24418.0
	08/26	309.8	76.5	24107.8	885.8	24417.5
	YR AGO	599.2	168.6	28907.5	1062.2	29506.7
SOYBEAN CAKE & MEAL	08/19	229.8	26.6	3700.0	-	3929.7
	08/26	167.9	63.8	3763.8	-	3931.7
	YR AGO	648.5	80.0	5147.3	-	5795.9
					MIL.LBS.	
SOYBEAN OIL	08/19	39.4	2.2	206.7	455.6	246.1
	08/26	36.2	3.8	210.5	464.0	246.6
	YR AGO	62.8	23.1	666.1	1468.5	729.0
LINSEED OIL	08/19	0.3	0.0	3.9	8.5	4.1
	08/26	0.3	0.0	3.9	8.5	4.1
	YR AGO	3.6	0.1	3.3	7.3	6.9
SUNFLOWERSEED OIL	08/19	3.7	0.2	107.3	236.5	110.9
	08/26	3.3	0.0	107.3	236.5	110.6
	YR AGO	8.5	0.3	50.7	111.8	59.2
					1000 CWT.	
LONG GRAIN, ROUGH	08/19	132.7	3.4	63.0	1389.3	195.7
	08/26	128.0	21.6	84.6	1865.6	212.7
	YR AGO	129.9	36.6	168.8	3721.3	298.7
MED, SHORT, OTH. CLASS., ROUGH	08/19	0.0	-	-	-	-
	08/26	0.0	-	-	-	-
	YR AGO	0.0	0.0	0.0	0.0	0.0
ALL RICE	08/19	284.2	21.8	97.0	2137.5	381.1
	08/26	302.2	44.6	141.6	3121.6	443.8
	YR AGO	401.6	63.5	288.1	6350.9	689.7
					1000 RUNNING BALES	
ALL UPLAND COTTON	08/19	4207.7	161.7	563.3	-	4770.9
	08/26	4241.8	171.7	735.0	-	4976.7
	YR AGO	2391.1	129.3	793.0	-	3184.1
AMERICAN PIMA COTTON	08/19	63.2	1.7	21.1	-	84.3
	08/26	70.6	3.8	24.9	-	95.4
	YR AGO	90.0	6.5	16.8	-	106.8
					1000 PIECES	
CATTLE HIDES - WHOLE	08/19	4190.4	449.7	14668.7	-	18859.1
	08/26	4098.0	403.0	15071.8	-	19169.8
	YR AGO	4183.9	400.0	15831.0	-	20014.9
					1000 METRIC TONS	
BEEF	08/19	14.8	3.4	74.3	163.9	89.1
	08/26	16.9	3.7	78.0	172.0	94.9
	YR AGO	97.3	16.4	530.0	1168.5	627.4

1/ WITH THE EXCEPTION OF EXPORT PROJECTIONS, DATA DO NOT INCLUDE SEED AND RELIEF (PL 480, TITLE II). 2/ EQUALS OUTSTANDING SALES PLUS CUMULATIVE EXPORTS 3/ INCLUDES SMALL QUANTITIES OF PRODUCTS. 4/ EXPORT PROJECTIONS ON "MILLED BASIS" AND CUMULATIVE EXPORT DATA ON "PRODUCT WEIGHT BASIS".

WHEAT - HARD RED WINTER

MARKETING YEAR 06/01 - 05/31

OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
1000 METRIC TONS AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	OUTSTANDING SALES		ACCUMULATED EXPORTS		OUTSTANDING SALES	
	THIS WEEK	YR AGO	THIS WEEK	YR AGO	SECOND YR	THIRD YR
JAPAN	203.1	198.8	260.0	295.6	0.0	0.0
TAIWAN	24.6	41.1	52.5	49.8	0.0	0.0
OTHER ASIA AND OCEANIA	259.4	125.5	497.5	155.8	0.0	0.0
INDNSIA	0.0	19.0	9.9	0.0	0.0	0.0
IRAQ	0.0	0.0	159.6	0.0	0.0	0.0
ISRAEL	124.7	55.9	172.5	75.1	0.0	0.0
JORDAN	0.0	0.0	50.5	0.0	0.0	0.0
KOR REP	95.0	40.6	74.6	49.8	0.0	0.0
PHIL	11.7	2.0	0.0	0.0	0.0	0.0
THAILND	28.0	8.0	20.5	30.9	0.0	0.0
VIETNAM	0.0	0.0	9.9	0.0	0.0	0.0
AFRICA	317.2	1000.2	696.8	753.7	0.0	0.0
ANGOLA	0.0	0.0	42.5	6.0	0.0	0.0
CO BRAZ	0.0	0.0	0.0	2.6	0.0	0.0
CONGO DR	0.0	0.0	0.0	16.7	0.0	0.0
EGYPT	8.0	346.3	8.1	136.2	0.0	0.0
GUIN-BIS	0.0	0.0	12.1	0.0	0.0	0.0
LIBYA	0.0	0.0	34.6	0.0	0.0	0.0
MALI	0.0	0.0	6.0	0.0	0.0	0.0
MOROCCO	0.0	0.0	0.0	24.1	0.0	0.0
MOZAMBO	0.0	0.0	0.0	13.6	0.0	0.0
NIGERIA	293.2	598.9	532.0	465.1	0.0	0.0
REP SAF	16.0	55.0	30.1	28.3	0.0	0.0
SENEGAL	0.0	0.0	0.1	0.0	0.0	0.0
SIER LN	0.0	0.0	8.9	12.9	0.0	0.0
SUDAN	0.0	0.0	22.5	0.0	0.0	0.0
TUNISIA	0.0	0.0	0.0	48.1	0.0	0.0
WESTERN HEMISPHERE	527.3	655.8	1071.6	1580.8	0.0	0.0
BELIZE	0.0	1.4	4.6	3.0	0.0	0.0
BOLIVIA	0.0	0.0	4.4	26.8	0.0	0.0
BRAZIL	0.0	44.0	0.0	319.8	0.0	0.0
C RICA	6.5	5.5	8.3	11.9	0.0	0.0
CANADA	0.0	0.0	0.0	0.4	0.0	0.0
CHILE	0.0	6.0	0.0	84.5	0.0	0.0
COLOMB	22.6	95.3	110.1	237.6	0.0	0.0
CUBA	75.0	170.0	105.6	59.8	0.0	0.0
DOM REP	10.0	29.5	23.1	6.1	0.0	0.0
ECUADOR	0.0	10.0	9.9	4.5	0.0	0.0
GUATMAL	34.5	29.5	70.8	45.2	0.0	0.0
GUYANA	0.0	0.0	2.6	2.1	0.0	0.0
HAITI	0.0	0.0	16.0	30.7	0.0	0.0
HONDURA	4.8	5.9	14.2	16.5	0.0	0.0
JAMAICA	0.0	0.0	0.0	2.3	0.0	0.0
MEXICO	303.9	178.8	380.6	367.2	0.0	0.0
NICARAG	0.0	0.0	0.0	1.9	0.0	0.0
PERU	54.5	40.3	287.0	258.9	0.0	0.0
SALVADR	3.0	0.0	16.6	1.9	0.0	0.0
SURINAM	0.0	0.0	0.0	2.9	0.0	0.0
TRINID	2.5	6.0	5.1	7.5	0.0	0.0
URUGUAY	0.0	0.0	0.0	26.3	0.0	0.0
VENEZ	10.0	33.6	12.7	63.0	0.0	0.0

WHEAT - HARD RED WINTER MARKETING YEAR 06/01 - 05/31
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 METRIC TONS AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	:OUTSTANDING SALES:ACCUMULATED EXPORTS: OUTSTANDING SALES					
	:THIS WEEK:	YR AGO:	:THIS WEEK:	YR AGO	:SECOND YR:	THIRD YR
TOTAL KNOWN	: 1331.6	2021.4	2578.4	2835.7	0.0	0.0
TOTAL UNKNOWN	: 480.8	354.0	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN	: 1812.5	2375.4	2578.4	2835.7	0.0	0.0
EXPORTS FOR OWN ACCT	: -	-	0.0	0.0	-	-
OPTIONAL ORIGIN	: 0.0	0.0	-	-	0.0	0.0

WHEAT - SOFT RED WINTER MARKETING YEAR 06/01 - 05/31
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 METRIC TONS AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	:OUTSTANDING SALES:ACCUMULATED EXPORTS: OUTSTANDING SALES					
	:THIS WEEK:	YR AGO:	:THIS WEEK:	YR AGO	:SECOND YR:	THIRD YR
CHINA	: 441.6	0.0	307.1	57.7	0.0	0.0
OTHER ASIA AND OCEANIA:	0.0	7.8	26.0	0.0	0.0	0.0
ISRAEL	: 0.0	7.8	17.0	0.0	0.0	0.0
U AR EM	: 0.0	0.0	9.0	0.0	0.0	0.0
AFRICA	: 326.5	269.9	280.2	316.8	0.0	0.0
CAMROON	: 0.0	0.0	6.3	0.0	0.0	0.0
EGYPT	: 242.0	236.5	196.4	251.4	0.0	0.0
MOROCCO	: 0.0	0.0	0.0	7.2	0.0	0.0
MOZAMBO	: 0.0	0.0	3.8	5.5	0.0	0.0
NIGERIA	: 84.5	33.4	70.4	52.7	0.0	0.0
REP SAF	: 0.0	0.0	3.3	0.0	0.0	0.0
WESTERN HEMISPHERE	: 229.3	253.4	439.3	577.4	0.0	0.0
BARBADO	: 2.6	9.0	0.9	0.0	0.0	0.0
BOLIVIA	: 0.0	0.0	5.1	0.0	0.0	0.0
BRAZIL	: 0.0	0.0	52.4	54.4	0.0	0.0
C RICA	: 13.0	3.5	6.4	5.4	0.0	0.0
CHILE	: 0.0	0.0	0.0	77.6	0.0	0.0
COLOMB	: 20.4	47.6	52.9	45.1	0.0	0.0
DOM REP	: 7.0	5.5	15.0	11.1	0.0	0.0
ECUADOR	: 0.0	0.0	16.5	10.7	0.0	0.0
GUATMAL	: 8.5	19.4	14.2	14.3	0.0	0.0
GUYANA	: 0.0	0.0	0.0	1.0	0.0	0.0
HONDURA	: 1.2	2.8	8.3	14.8	0.0	0.0
JAMAICA	: 52.8	0.0	23.9	20.4	0.0	0.0
LW WW I	: 1.0	0.5	0.5	0.0	0.0	0.0
MEXICO	: 109.6	140.7	153.2	220.9	0.0	0.0
N ANTIL	: 0.0	2.3	0.0	0.0	0.0	0.0
NICARAG	: 0.0	0.0	0.0	6.1	0.0	0.0
PANAMA	: 3.8	6.7	9.0	11.7	0.0	0.0
PERU	: 0.0	0.0	27.5	26.2	0.0	0.0
SALVADR	: 5.0	0.0	22.8	9.0	0.0	0.0
TRINID	: 4.4	4.5	11.0	11.6	0.0	0.0
VENEZ	: 0.0	11.0	19.7	37.3	0.0	0.0

WHEAT - SOFT RED WINTER

MARKETING YEAR 06/01 - 05/31

OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
1000 METRIC TONS AS OF AUGUST 26, 2004

	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	:OUTSTANDING SALES:ACCUMULATED EXPORTS:				OUTSTANDING SALES	
DESTINATION	:THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	:SECOND YR:	THIRD YR
TOTAL KNOWN	: 997.4	531.0	1052.7	952.0	0.0	0.0
TOTAL UNKNOWN	: 69.6	34.0	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN	: 1067.0	565.0	1052.7	952.0	0.0	0.0
EXPORTS FOR OWN ACCT	: -	-	14.0	81.6	-	-
OPTIONAL ORIGIN	: 0.0	0.0	-	-	0.0	0.0

WHEAT - HARD RED SPRING

MARKETING YEAR 06/01 - 05/31

OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
1000 METRIC TONS AS OF AUGUST 26, 2004

	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	:OUTSTANDING SALES:ACCUMULATED EXPORTS:				OUTSTANDING SALES	
DESTINATION	:THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	:SECOND YR:	THIRD YR
EUROPEAN UNION - 25	: 167.3	277.8	217.7	292.8	0.0	0.0
BELGIUM	: 0.0	11.0	11.1	21.5	0.0	0.0
FINLAND	: 0.0	0.0	0.0	2.2	0.0	0.0
GERMANY	: 0.0	12.0	0.0	7.3	0.0	0.0
ITALY	: 86.4	118.2	102.7	120.9	0.0	0.0
NETHLD	: 3.7	0.0	9.4	10.4	0.0	0.0
PORTUGL	: 0.0	20.0	7.9	36.7	0.0	0.0
SPAIN	: 75.0	98.0	64.6	49.7	0.0	0.0
SWEDEN	: 0.0	2.0	0.0	6.0	0.0	0.0
U KING	: 2.2	16.6	22.0	38.2	0.0	0.0
OTHER EUROPE	: 0.0	0.0	17.7	27.6	0.0	0.0
ICELAND	: 0.0	0.0	0.0	0.4	0.0	0.0
SWITZLD	: 0.0	0.0	0.0	0.5	0.0	0.0
TURKEY	: 0.0	0.0	17.7	26.7	0.0	0.0
JAPAN	: 271.5	343.8	302.7	230.0	0.0	0.0
TAIWAN	: 24.6	80.0	101.4	142.5	0.0	0.0
CHINA	: 370.3	5.0	457.7	9.2	0.0	0.0
OTHER ASIA AND OCEANIA:	219.5	227.9	394.3	346.7	0.0	0.0
BURMA	: 0.6	1.0	0.0	0.0	0.0	0.0
INDNSIA	: 0.0	20.0	9.9	14.1	0.0	0.0
KOR REP	: 87.0	67.0	83.3	105.9	0.0	0.0
MALAYSA	: 0.0	24.0	18.7	4.6	0.0	0.0
PHIL	: 102.0	103.0	213.3	152.1	0.0	0.0
SINGAPR	: 0.0	5.0	3.0	8.0	0.0	0.0
THAILND	: 30.0	8.0	66.1	62.0	0.0	0.0
AFRICA	: 14.6	40.5	51.0	46.3	0.0	0.0
CAMROON	: 0.0	0.0	4.5	0.0	0.0	0.0
EGYPT	: 7.0	0.0	0.0	0.0	0.0	0.0
MOZAMBQ	: 0.0	0.0	4.6	13.2	0.0	0.0
NIGERIA	: 7.6	40.5	5.3	33.1	0.0	0.0
REP SAF	: 0.0	0.0	36.5	0.0	0.0	0.0
WESTERN HEMISPHERE	: 310.8	170.9	255.8	396.9	0.0	0.0
BARBADO	: 20.7	4.8	6.8	5.8	0.0	0.0
BELIZE	: 6.2	0.9	2.8	1.9	0.0	0.0
C RICA	: 35.0	7.0	17.9	18.4	0.0	0.0

WHEAT - HARD RED SPRING

MARKETING YEAR 06/01 - 05/31

OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
1000 METRIC TONS AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	OUTSTANDING SALES: ACCUMULATED EXPORTS:				OUTSTANDING SALES	
	THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	SECOND YR:	THIRD YR
COLOMB	0.0	20.9	13.4	18.9	0.0	0.0
CUBA	5.0	5.0	5.2	0.0	0.0	0.0
DOM REP	22.0	17.6	39.4	17.9	0.0	0.0
GUATMAL	12.5	29.2	0.0	9.3	0.0	0.0
GUYANA	0.0	0.0	3.3	7.3	0.0	0.0
HONDURA	5.2	4.9	10.1	10.2	0.0	0.0
JAMAICA	87.5	4.9	21.8	12.6	0.0	0.0
LW WW I	19.4	11.2	4.4	8.7	0.0	0.0
MEXICO	55.7	19.6	36.4	62.1	0.0	0.0
N ANTIL	0.0	2.2	0.0	0.0	0.0	0.0
NICARAG	5.5	4.5	10.5	23.5	0.0	0.0
PANAMA	6.0	25.2	5.1	17.2	0.0	0.0
PERU	0.0	0.0	2.2	6.3	0.0	0.0
SALVADR	8.5	0.0	33.8	25.1	0.0	0.0
TRINID	5.0	6.0	13.5	14.8	0.0	0.0
VENEZ	16.6	7.0	29.3	137.0	0.0	0.0
TOTAL KNOWN	1378.5	1145.8	1798.1	1492.1	0.0	0.0
TOTAL UNKNOWN	196.2	178.1	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN	1574.7	1323.9	1798.1	1492.1	0.0	0.0
EXPORTS FOR OWN ACCT	-	-	86.6	42.8	-	-
OPTIONAL ORIGIN	0.0	18.0	-	-	0.0	0.0

WHEAT - WHITE

MARKETING YEAR 06/01 - 05/31

OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
1000 METRIC TONS AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	OUTSTANDING SALES: ACCUMULATED EXPORTS:				OUTSTANDING SALES	
	THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	SECOND YR:	THIRD YR
JAPAN	177.8	152.5	119.5	181.2	0.0	0.0
TAIWAN	4.5	10.9	17.2	23.4	0.0	0.0
CHINA	220.0	0.0	118.0	8.8	0.0	0.0
OTHER ASIA AND OCEANIA:	701.2	363.0	533.3	450.8	0.0	0.0
HG KONG	0.7	1.7	1.3	1.8	0.0	0.0
INDNSIA	0.0	21.0	58.6	0.0	0.0	0.0
KOR REP	159.2	112.3	147.1	169.2	0.0	0.0
MALAYSA	0.0	16.0	0.0	0.0	0.0	0.0
PAKISTN	234.0	0.0	0.0	0.0	0.0	0.0
PHIL	144.8	159.0	171.0	118.8	0.0	0.0
SINGAPR	0.0	7.0	10.3	3.6	0.0	0.0
THAILND	33.0	16.0	40.7	45.3	0.0	0.0
U AR EM	0.0	0.0	0.0	10.7	0.0	0.0
VIETNAM	0.0	0.0	9.9	0.0	0.0	0.0
YEMEN	129.5	30.0	94.4	101.4	0.0	0.0
AFRICA	120.0	90.0	173.1	178.6	0.0	0.0
EGYPT	120.0	90.0	173.1	178.6	0.0	0.0
WESTERN HEMISPHERE	0.0	7.0	0.4	0.7	0.0	0.0
CANADA	0.0	0.0	0.4	0.7	0.0	0.0
ECUADOR	0.0	7.0	0.0	0.0	0.0	0.0

WHEAT - WHITE

MARKETING YEAR 06/01 - 05/31

OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
1000 METRIC TONS AS OF AUGUST 26, 2004

	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	:OUTSTANDING SALES:ACCUMULATED EXPORTS: OUTSTANDING SALES					
DESTINATION	:THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	:SECOND YR:	THIRD YR
TOTAL KNOWN	: 1223.5	623.4	961.4	843.5	0.0	0.0
TOTAL UNKNOWN	: 0.0	32.0	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN	: 1223.5	655.4	961.4	843.5	0.0	0.0
EXPORTS FOR OWN ACCT	: -	-	0.0	0.0	-	-
OPTIONAL ORIGIN	: 0.0	0.0	-	-	0.0	0.0

WHEAT - DURUM

MARKETING YEAR 06/01 - 05/31

OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
1000 METRIC TONS AS OF AUGUST 26, 2004

	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	:OUTSTANDING SALES:ACCUMULATED EXPORTS: OUTSTANDING SALES					
DESTINATION	:THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	:SECOND YR:	THIRD YR
EUROPEAN UNION - 25	: 50.0	57.0	16.1	75.1	0.0	0.0
BELGIUM	: 0.0	0.0	0.0	3.1	0.0	0.0
GERMANY	: 0.0	0.0	0.0	5.0	0.0	0.0
ITALY	: 50.0	57.0	16.1	67.0	0.0	0.0
OTHER EUROPE	: 0.0	0.0	0.0	32.9	0.0	0.0
SWITZLD	: 0.0	0.0	0.0	32.9	0.0	0.0
TAIWAN	: 0.0	2.0	2.3	0.0	0.0	0.0
AFRICA	: 36.0	0.0	117.4	62.9	0.0	0.0
ALGERIA	: 36.0	0.0	104.5	0.0	0.0	0.0
MOROCCO	: 0.0	0.0	0.0	57.7	0.0	0.0
NIGERIA	: 0.0	0.0	7.4	5.2	0.0	0.0
REP SAF	: 0.0	0.0	5.4	0.0	0.0	0.0
WESTERN HEMISPHERE	: 6.5	42.5	12.9	61.1	0.0	0.0
C RICA	: 0.0	2.0	3.7	3.0	0.0	0.0
CANADA	: 0.0	0.0	0.1	0.1	0.0	0.0
CUBA	: 0.0	0.0	5.3	0.0	0.0	0.0
DOM REP	: 6.5	0.0	2.8	4.7	0.0	0.0
GUATMAL	: 0.0	0.0	0.0	5.0	0.0	0.0
HONDURA	: 0.0	0.0	1.1	1.1	0.0	0.0
PERU	: 0.0	0.0	0.0	5.0	0.0	0.0
VENEZ	: 0.0	40.5	0.0	42.2	0.0	0.0
TOTAL KNOWN	: 92.5	101.5	148.6	231.9	0.0	0.0
TOTAL UNKNOWN	: 17.0	64.0	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN	: 109.5	165.5	148.6	231.9	0.0	0.0
EXPORTS FOR OWN ACCT	: -	-	0.0	0.0	-	-
OPTIONAL ORIGIN	: 0.0	0.0	-	-	0.0	0.0

ALL WHEAT

MARKETING YEAR 06/01 - 05/31

OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
1000 METRIC TONS AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	:OUTSTANDING SALES:ACCUMULATED EXPORTS: OUTSTANDING SALES					
	:THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	:SECOND YR:	THIRD YR
EUROPEAN UNION - 25	: 217.3	334.8	233.7	367.9	0.0	0.0
BELGIUM	: 0.0	11.0	11.1	24.7	0.0	0.0
FINLAND	: 0.0	0.0	0.0	2.2	0.0	0.0
GERMANY	: 0.0	12.0	0.0	12.3	0.0	0.0
ITALY	: 136.4	175.2	118.7	187.9	0.0	0.0
NETHLDS	: 3.7	0.0	9.4	10.4	0.0	0.0
PORTUGL	: 0.0	20.0	7.9	36.7	0.0	0.0
SPAIN	: 75.0	98.0	64.6	49.7	0.0	0.0
SWEDEN	: 0.0	2.0	0.0	6.0	0.0	0.0
U KING	: 2.2	16.6	22.0	38.2	0.0	0.0
OTHER EUROPE	: 0.0	0.0	17.7	60.5	0.0	0.0
ICELAND	: 0.0	0.0	0.0	0.4	0.0	0.0
SWITZLD	: 0.0	0.0	0.0	33.4	0.0	0.0
TURKEY	: 0.0	0.0	17.7	26.7	0.0	0.0
JAPAN	: 652.4	695.1	682.2	706.8	0.0	0.0
TAIWAN	: 53.7	134.0	173.3	215.8	0.0	0.0
CHINA	: 1031.9	5.0	882.8	75.7	0.0	0.0
OTHER ASIA AND OCEANIA:	1180.2	724.2	1451.1	953.3	0.0	0.0
BURMA	: 0.6	1.0	0.0	0.0	0.0	0.0
HG KONG	: 0.7	1.7	1.3	1.8	0.0	0.0
INDNSIA	: 0.0	60.0	78.4	14.1	0.0	0.0
IRAQ	: 0.0	0.0	159.6	0.0	0.0	0.0
ISRAEL	: 124.7	63.6	189.6	75.1	0.0	0.0
JORDAN	: 0.0	0.0	50.5	0.0	0.0	0.0
KOR REP	: 341.2	219.9	305.1	324.8	0.0	0.0
MALAYSA	: 0.0	40.0	18.7	4.6	0.0	0.0
PAKISTN	: 234.0	0.0	0.0	0.0	0.0	0.0
PHIL	: 258.5	264.0	384.3	270.9	0.0	0.0
SINGAPR	: 0.0	12.0	13.3	11.6	0.0	0.0
THAILND	: 91.0	32.0	127.3	138.2	0.0	0.0
U AR EM	: 0.0	0.0	9.0	10.7	0.0	0.0
VIETNAM	: 0.0	0.0	19.8	0.0	0.0	0.0
YEMEN	: 129.5	30.0	94.4	101.4	0.0	0.0
AFRICA	: 814.3	1400.6	1318.4	1358.2	0.0	0.0
ALGERIA	: 36.0	0.0	104.5	0.0	0.0	0.0
ANGOLA	: 0.0	0.0	42.5	6.0	0.0	0.0
CAMROON	: 0.0	0.0	10.8	0.0	0.0	0.0
CO BRAZ	: 0.0	0.0	0.0	2.6	0.0	0.0
CONGO DR	: 0.0	0.0	0.0	16.7	0.0	0.0
EGYPT	: 377.0	672.8	377.6	566.2	0.0	0.0
GUIN-BIS	: 0.0	0.0	12.1	0.0	0.0	0.0
LIBYA	: 0.0	0.0	34.6	0.0	0.0	0.0
MALI	: 0.0	0.0	6.0	0.0	0.0	0.0
MOROCCO	: 0.0	0.0	0.0	89.0	0.0	0.0
MOZAMBQ	: 0.0	0.0	8.4	32.3	0.0	0.0
NIGERIA	: 385.3	672.8	615.1	556.1	0.0	0.0
REP SAF	: 16.0	55.0	75.4	28.3	0.0	0.0
SENEGAL	: 0.0	0.0	0.1	0.0	0.0	0.0
SIER LN	: 0.0	0.0	8.9	12.9	0.0	0.0
SUDAN	: 0.0	0.0	22.5	0.0	0.0	0.0
TUNISIA	: 0.0	0.0	0.0	48.1	0.0	0.0
WESTERN HEMISPHERE	: 1073.9	1129.6	1780.0	2616.9	0.0	0.0
BARBADO	: 23.3	13.8	7.7	5.8	0.0	0.0
BELIZE	: 6.2	2.3	7.3	4.9	0.0	0.0

ALL WHEAT

MARKETING YEAR 06/01 - 05/31

OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
1000 METRIC TONS AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	:OUTSTANDING SALES:ACCUMULATED EXPORTS: OUTSTANDING SALES					
	:THIS WEEK:	YR AGO:	:THIS WEEK:	YR AGO	:SECOND YR:	THIRD YR
BOLIVIA	: 0.0	0.0	9.5	26.8	0.0	0.0
BRAZIL	: 0.0	44.0	52.4	374.2	0.0	0.0
C RICA	: 54.5	18.0	36.3	38.7	0.0	0.0
CANADA	: 0.0	0.0	0.5	1.2	0.0	0.0
CHILE	: 0.0	6.0	0.0	162.1	0.0	0.0
COLOMB	: 43.0	163.8	176.4	301.5	0.0	0.0
CUBA	: 80.0	175.0	116.1	59.8	0.0	0.0
DOM REP	: 45.5	52.6	80.2	39.8	0.0	0.0
ECUADOR	: 0.0	17.0	26.4	15.3	0.0	0.0
GUATMAL	: 55.5	78.0	85.0	73.7	0.0	0.0
GUYANA	: 0.0	0.0	5.9	10.5	0.0	0.0
HAITI	: 0.0	0.0	16.0	30.7	0.0	0.0
HONDURA	: 11.2	13.6	33.7	42.6	0.0	0.0
JAMAICA	: 140.2	4.9	45.7	35.3	0.0	0.0
LW WW I	: 20.4	11.7	4.9	8.7	0.0	0.0
MEXICO	: 469.2	339.1	570.2	650.2	0.0	0.0
N ANTIL	: 0.0	4.5	0.0	0.0	0.0	0.0
NICARAG	: 5.5	4.5	10.5	31.4	0.0	0.0
PANAMA	: 9.7	31.9	14.1	28.8	0.0	0.0
PERU	: 54.5	40.3	316.7	296.3	0.0	0.0
SALVADR	: 16.5	0.0	73.1	36.0	0.0	0.0
SURINAM	: 0.0	0.0	0.0	2.9	0.0	0.0
TRINID	: 11.9	16.5	29.7	33.9	0.0	0.0
URUGUAY	: 0.0	0.0	0.0	26.3	0.0	0.0
VENEZ	: 26.6	92.1	61.6	279.5	0.0	0.0
TOTAL KNOWN	: 5023.6	4423.1	6539.2	6355.1	0.0	0.0
TOTAL UNKNOWN	: 763.5	662.1	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN	: 5787.1	5085.2	6539.2	6355.1	0.0	0.0
EXPORTS FOR OWN ACCT	: -	-	100.6	124.4	-	-
OPTIONAL ORIGIN	: 0.0	18.0	-	-	0.0	0.0

WHEAT PRODUCTS

MARKETING YEAR 06/01 - 05/31

OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
1000 METRIC TONS AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	:OUTSTANDING SALES:ACCUMULATED EXPORTS: OUTSTANDING SALES					
	:THIS WEEK:	YR AGO:	:THIS WEEK:	YR AGO	:SECOND YR:	THIRD YR
EUROPEAN UNION - 25	: 0.1	0.1	0.1	0.1	0.0	0.0
NETHLDS	: 0.1	0.1	0.1	0.1	0.0	0.0
OTHER EUROPE	: *	0.0	*	*	0.0	0.0
ICELAND	: *	0.0	*	*	0.0	0.0
JAPAN	: 0.0	0.0	*	*	0.0	0.0
TAIWAN	: *	0.0	0.0	*	0.0	0.0
OTHER ASIA AND OCEANIA:	0.0	0.0	0.6	0.3	0.0	0.0
AUSTRAL	: 0.0	0.0	0.0	*	0.0	0.0
GUAM	: 0.0	0.0	*	*	0.0	0.0
MARSHALL	: 0.0	0.0	0.3	0.2	0.0	0.0
MICRONES	: 0.0	0.0	*	0.0	0.0	0.0
NMARIANA	: 0.0	0.0	0.1	0.0	0.0	0.0

WHEAT PRODUCTS

MARKETING YEAR 06/01 - 05/31

OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
1000 METRIC TONS AS OF AUGUST 26, 2004

		CURRENT MARKETING YEAR				:NEXT MARKETING YEAR	
		:OUTSTANDING SALES:ACCUMULATED EXPORTS: OUTSTANDING SALES					
DESTINATION	:	THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	:SECOND YR:	THIRD YR
S ARAB	:	0.0	0.0	0.1	0.0	0.0	0.0
AFRICA	:	0.0	0.0	*	0.0	0.0	0.0
TOGO	:	0.0	0.0	*	0.0	0.0	0.0
WESTERN HEMISPHERE	:	14.3	23.0	22.8	7.3	0.0	0.0
BAHAMAS	:	0.0	0.0	0.6	0.0	0.0	0.0
BERMUDA	:	0.0	*	0.0	0.1	0.0	0.0
CANADA	:	1.6	0.1	1.1	0.4	0.0	0.0
CAYMAN	:	0.0	0.0	*	0.0	0.0	0.0
COLOMB	:	0.0	0.0	0.3	0.2	0.0	0.0
CUBA	:	10.0	20.0	9.9	0.0	0.0	0.0
DOM REP	:	0.2	*	0.5	*	0.0	0.0
F W IND	:	0.0	0.0	*	0.0	0.0	0.0
HAITI	:	0.0	0.0	2.9	0.0	0.0	0.0
MEXICO	:	2.3	2.5	7.0	6.4	0.0	0.0
N ANTIL	:	0.0	0.0	0.1	0.0	0.0	0.0
PANAMA	:	0.0	0.0	0.2	0.0	0.0	0.0
TRINID	:	0.2	0.3	0.1	0.1	0.0	0.0
VIRGIN I	:	*	0.0	0.1	0.1	0.0	0.0
TOTAL KNOWN	:	14.5	23.1	23.6	7.7	0.0	0.0
TOTAL UNKNOWN	:	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN	:	14.5	23.1	23.6	7.7	0.0	0.0
EXPORTS FOR OWN ACCT	:	-	-	0.0	0.0	-	-
OPTIONAL ORIGIN	:	0.0	0.0	-	-	0.0	0.0

BARLEY - UNMILLED

MARKETING YEAR 06/01 - 05/31

OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
1000 METRIC TONS AS OF AUGUST 26, 2004

	:	CURRENT MARKETING YEAR				:NEXT MARKETING YEAR	
	:	:OUTSTANDING SALES:ACCUMULATED EXPORTS: OUTSTANDING SALES					
DESTINATION	:	THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	:SECOND YR:	THIRD YR
EUROPEAN UNION - 25	:	0.0	0.0	6.0	0.0	0.0	0.0
IRELAND	:	0.0	0.0	1.8	0.0	0.0	0.0
U KING	:	0.0	0.0	4.2	0.0	0.0	0.0
JAPAN	:	10.5	14.2	30.5	40.8	0.0	0.0
WESTERN HEMISPHERE	:	0.5	23.4	3.8	3.1	0.0	0.0
CANADA	:	0.5	17.0	3.8	3.1	0.0	0.0
MEXICO	:	0.0	6.4	0.0	0.0	0.0	0.0
TOTAL KNOWN	:	10.9	37.6	40.2	43.8	0.0	0.0
TOTAL UNKNOWN	:	0.0	55.0	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN	:	10.9	92.6	40.2	43.8	0.0	0.0
EXPORTS FOR OWN ACCT	:	-	-	0.0	0.0	-	-
OPTIONAL ORIGIN	:	0.0	0.0	-	-	0.0	0.0

CORN - UNMILLED
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 METRIC TONS AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	OUTSTANDING SALES		ACCUMULATED EXPORTS		OUTSTANDING SALES	
	THIS WEEK	YR AGO	THIS WEEK	YR AGO	SECOND YR	THIRD YR
EUROPEAN UNION - 25	0.0	0.0	123.4	29.4	0.0	0.0
CYPRUS	0.0	0.0	102.5	0.0	0.0	0.0
ITALY	0.0	0.0	5.1	0.0	0.0	0.0
MALTA	0.0	0.0	15.0	29.4	0.0	0.0
SPAIN	0.0	0.0	0.8	0.0	0.0	0.0
OTHER EUROPE	0.0	0.0	722.0	983.7	0.0	0.0
AZORES	0.0	0.0	5.9	0.0	0.0	0.0
BULGAR	0.0	0.0	*	0.0	0.0	0.0
ICELAND	0.0	0.0	7.3	10.8	0.0	0.0
TURKEY	0.0	0.0	708.7	972.9	0.0	0.0
FORMER SOVIET UNION-12	0.0	0.0	48.9	11.7	0.0	0.0
RUSSIA	0.0	0.0	48.9	11.7	0.0	0.0
JAPAN	760.6	526.9	15271.6	15138.0	1666.2	0.0
TAIWAN	314.1	280.0	4643.9	4306.9	192.9	0.0
OTHER ASIA AND OCEANIA	293.0	66.7	6925.7	1353.3	200.5	0.0
AUSTRAL	0.0	0.0	0.0	48.4	0.0	0.0
BAHRAIN	0.0	0.0	6.0	0.0	0.0	0.0
HG KONG	0.0	0.0	2.1	0.0	0.0	0.0
INDNSIA	120.0	65.0	223.9	0.0	0.0	0.0
IRAN	0.0	0.0	121.1	0.0	0.0	0.0
IRAQ	0.0	0.0	32.0	0.0	0.0	0.0
ISRAEL	22.0	0.0	1067.4	229.9	35.5	0.0
JORDAN	0.0	0.0	195.1	27.5	0.0	0.0
KOR REP	116.0	1.7	3604.5	263.3	165.0	0.0
LEBANON	0.0	0.0	272.1	117.2	0.0	0.0
MALAYSA	0.0	0.0	188.2	9.9	0.0	0.0
OMAN	0.0	0.0	22.2	0.0	0.0	0.0
S ARAB	0.0	0.0	399.3	210.4	0.0	0.0
SYRIA	35.0	0.0	753.6	446.8	0.0	0.0
YEMEN	0.0	0.0	38.2	0.0	0.0	0.0
AFRICA	54.8	159.1	6160.7	3954.9	369.6	0.0
ALGERIA	0.0	9.6	1383.9	917.5	15.0	0.0
C IVOIRE	0.0	0.0	0.0	1.7	0.0	0.0
CAMROON	0.0	0.0	5.5	4.7	0.0	0.0
EGYPT	54.8	149.4	3300.6	2745.4	300.0	0.0
GHANA	0.0	0.0	0.0	4.5	0.0	0.0
GUIN-BIS	0.0	0.0	5.7	4.9	0.0	0.0
LIBYA	0.0	0.0	30.7	0.0	0.0	0.0
MOROCCO	0.0	0.0	748.9	105.2	8.0	0.0
MOZAMBQ	0.0	0.0	7.4	5.9	0.0	0.0
NIGERIA	0.0	0.0	0.8	0.0	0.0	0.0
REP SAF	0.0	0.0	60.0	23.1	0.0	0.0
TUNISIA	0.0	0.0	617.3	142.2	46.6	0.0
WESTERN HEMISPHERE	374.7	564.9	13808.0	13867.8	1375.4	0.0
BARBADO	0.0	0.0	35.3	31.1	0.0	0.0
BRAZIL	0.0	0.0	0.0	7.4	0.0	0.0
C RICA	0.0	0.0	507.5	539.0	40.7	0.0
CANADA	91.5	81.5	1232.2	2872.2	68.9	0.0
CHILE	0.0	0.0	9.4	0.0	0.0	0.0
COLOMB	0.0	76.8	1867.2	1614.5	69.4	0.0
CUBA	3.8	15.0	494.0	287.4	166.1	0.0
DOM REP	0.0	83.4	839.3	987.9	72.5	0.0
ECUADOR	0.0	0.0	372.0	187.0	0.0	0.0
GUATMAL	39.3	90.4	499.8	382.9	146.0	0.0

CORN - UNMILLED MARKETING YEAR 09/01 - 08/31
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 METRIC TONS AS OF AUGUST 26, 2004

	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	OUTSTANDING SALES:ACCUMULATED EXPORTS: OUTSTANDING SALES					
DESTINATION	THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	SECOND YR:	THIRD YR
GUYANA	0.0	0.0	0.0	5.9	0.0	0.0
HONDURA	0.0	4.0	233.3	179.5	0.0	0.0
JAMAICA	8.4	0.0	252.0	240.2	2.0	0.0
LW WW I	0.0	0.0	6.1	8.0	0.8	0.0
MEXICO	169.6	146.7	5815.2	5023.7	646.5	0.0
N ANTIL	0.0	0.0	0.0	4.6	0.0	0.0
NICARAG	12.4	6.7	78.1	71.5	0.0	0.0
PANAMA	0.0	0.0	269.8	272.8	35.0	0.0
PERU	0.0	0.0	131.6	42.3	0.0	0.0
SALVADR	6.3	11.6	439.2	373.6	0.0	0.0
SURINAM	0.0	0.0	16.5	17.9	0.0	0.0
TRINID	13.5	0.0	84.6	113.0	0.0	0.0
VENEZ	30.0	48.9	625.0	605.2	127.5	0.0
TOTAL KNOWN	1797.2	1597.7	47704.2	39645.7	3804.6	0.0
TOTAL UNKNOWN	379.9	301.9	0.0	0.0	1144.0	0.0
TOTAL KNOWN & UNKNOWN	2177.1	1899.6	47704.2	39645.7	4948.6	0.0
EXPORTS FOR OWN ACCT	-	-	41.1	10.0	-	-
OPTIONAL ORIGIN	0.0	0.0	-	-	0.0	0.0

RYE - UNMILLED MARKETING YEAR 06/01 - 05/31
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 METRIC TONS AS OF AUGUST 26, 2004

		CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
		OUTSTANDING SALES:ACCUMULATED EXPORTS: OUTSTANDING SALES					
DESTINATION		THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	SECOND YR:	THIRD YR
OTHER ASIA AND OCEANIA:		0.0	0.0	0.0	*	0.0	0.0
AUSTRAL		0.0	0.0	0.0	*	0.0	0.0
TOTAL KNOWN		0.0	0.0	0.0	*	0.0	0.0
TOTAL UNKNOWN		0.0	0.0	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN		0.0	0.0	0.0	*	0.0	0.0
EXPORTS FOR OWN ACCT		-	-	0.0	0.0	-	-
OPTIONAL ORIGIN		0.0	0.0	-	-	0.0	0.0

OATS - UNMILLED MARKETING YEAR 06/01 - 05/31
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 METRIC TONS AS OF AUGUST 26, 2004

	:	CURRENT MARKETING YEAR				:	NEXT MARKETING YEAR

	:	OUTSTANDING SALES:		ACCUMULATED EXPORTS:		:	OUTSTANDING SALES

DESTINATION	:	THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	:	SECOND YR: THIRD YR

WESTERN HEMISPHERE	:	0.0	0.1	0.0	1.3	0.0	0.0
CANADA	:	0.0	0.1	0.0	1.3	0.0	0.0

OATS - UNMILLED MARKETING YEAR 06/01 - 05/31
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 METRIC TONS AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	:OUTSTANDING SALES:ACCUMULATED EXPORTS:				OUTSTANDING SALES	
	:THIS WEEK:	YR AGO:	:THIS WEEK:	YR AGO	:SECOND YR:	THIRD YR
TOTAL KNOWN	: 0.0	0.1	0.0	1.3	0.0	0.0
TOTAL UNKNOWN	: 0.0	0.0	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN	: 0.0	0.1	0.0	1.3	0.0	0.0
EXPORTS FOR OWN ACCT	: -	-	0.0	0.0	-	-
OPTIONAL ORIGIN	: 0.0	0.0	-	-	0.0	0.0

GRAIN SORGHUMS - UNMILLED MARKETING YEAR 09/01 - 08/31
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 METRIC TONS AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	:OUTSTANDING SALES:ACCUMULATED EXPORTS:				OUTSTANDING SALES	
	:THIS WEEK:	YR AGO:	:THIS WEEK:	YR AGO	:SECOND YR:	THIRD YR
EUROPEAN UNION - 25	: 0.0	0.0	857.4	182.1	0.0	0.0
IRELAND	: 0.0	0.0	15.3	0.0	0.0	0.0
ITALY	: 0.0	0.0	441.9	0.0	0.0	0.0
PORTUGL	: 0.0	0.0	58.3	0.0	0.0	0.0
SPAIN	: 0.0	0.0	338.7	182.1	0.0	0.0
U KING	: 0.0	0.0	3.3	0.0	0.0	0.0
JAPAN	: 48.1	62.4	819.0	1053.7	192.0	0.0
OTHER ASIA AND OCEANIA:	*	16.0	131.5	24.3	0.0	0.0
ISRAEL	: 0.0	16.0	131.5	24.2	0.0	0.0
KOR REP	: *	0.0	0.1	*	0.0	0.0
AFRICA	: 0.0	0.0	16.6	55.6	0.0	0.0
ERITREA	: 0.0	0.0	0.0	33.0	0.0	0.0
REP SAF	: 0.0	0.0	16.6	22.6	0.0	0.0
WESTERN HEMISPHERE	: 164.7	158.2	2871.6	3424.4	449.5	0.0
CANADA	: *	0.0	0.0	0.0	0.0	0.0
MEXICO	: 164.7	158.2	2871.6	3424.4	449.5	0.0
TOTAL KNOWN	: 212.8	236.7	4696.2	4740.1	641.5	0.0
TOTAL UNKNOWN	: 0.0	50.0	0.0	0.0	8.1	0.0
TOTAL KNOWN & UNKNOWN	: 212.8	286.7	4696.2	4740.1	649.7	0.0
EXPORTS FOR OWN ACCT	: -	-	0.0	0.0	-	-
OPTIONAL ORIGIN	: 0.0	9.0	-	-	0.0	0.0

SOYBEANS

MARKETING YEAR 09/01 - 08/31

OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
1000 METRIC TONS AS OF AUGUST 26, 2004

	:	CURRENT MARKETING YEAR				:NEXT MARKETING YEAR	
	:	:OUTSTANDING SALES:ACCUMULATED EXPORTS:				OUTSTANDING SALES	
DESTINATION	:	:THIS WEEK:	YR AGO:	:THIS WEEK:	YR AGO	:SECOND YR:	THIRD YR
EUROPEAN UNION - 25	:	3.0	45.0	3493.4	5689.2	495.0	0.0
BELGIUM	:	0.0	0.0	196.9	612.0	0.0	0.0
DENMARK	:	0.0	0.0	98.3	119.3	0.0	0.0
FINLAND	:	0.0	0.0	42.6	25.6	0.0	0.0
FRANCE	:	0.0	0.0	54.7	120.7	60.0	0.0
GERMANY	:	0.0	45.0	924.2	1429.6	300.0	0.0
GREECE	:	0.0	0.0	60.4	163.7	0.0	0.0
IRELAND	:	3.0	0.0	2.6	6.9	0.0	0.0
ITALY	:	0.0	0.0	23.7	299.2	0.0	0.0
NETHLDS	:	0.0	0.0	920.1	829.7	135.0	0.0
PORTUGL	:	0.0	0.0	158.3	527.5	0.0	0.0
SPAIN	:	0.0	0.0	938.8	1427.3	0.0	0.0
U KING	:	0.0	0.0	72.8	127.8	0.0	0.0
OTHER EUROPE	:	15.0	35.0	267.8	382.3	0.0	0.0
ROMANIA	:	0.0	0.0	0.0	21.3	0.0	0.0
TURKEY	:	15.0	35.0	267.8	361.0	0.0	0.0
JAPAN	:	24.1	203.3	3262.5	3537.5	381.9	0.0
TAIWAN	:	21.0	34.0	1363.7	1628.7	22.1	0.0
CHINA	:	0.0	0.0	8229.0	7680.9	2253.0	0.0
OTHER ASIA AND OCEANIA:	:	122.5	115.9	3225.6	4468.4	343.5	0.0
AUSTRAL	:	0.0	0.0	8.2	70.4	0.0	0.0
HG KONG	:	0.0	0.0	0.1	0.0	0.0	0.0
INDNSIA	:	60.0	69.9	959.2	1257.2	60.0	0.0
IRAN	:	0.0	0.0	55.0	132.5	0.0	0.0
ISRAEL	:	0.0	0.0	190.6	375.4	13.5	0.0
KOR REP	:	1.5	40.0	1066.3	1188.9	150.0	0.0
LEBANON	:	0.0	0.0	69.6	45.9	0.0	0.0
MALAYSA	:	0.0	0.0	214.9	235.9	0.0	0.0
PAKISTN	:	0.0	0.0	0.0	42.3	0.0	0.0
PHIL	:	61.0	6.0	179.4	206.0	0.0	0.0
S LANKA	:	0.0	0.0	0.1	0.6	0.0	0.0
SINGAPR	:	0.0	0.0	0.1	0.1	0.0	0.0
SYRIA	:	0.0	0.0	38.4	30.1	0.0	0.0
THAILND	:	0.0	0.0	443.8	829.3	120.0	0.0
U AR EM	:	0.0	0.0	0.0	53.8	0.0	0.0
AFRICA	:	0.0	0.0	202.1	328.8	110.0	0.0
EGYPT	:	0.0	0.0	71.0	50.1	60.0	0.0
MOROCCO	:	0.0	0.0	131.0	275.1	50.0	0.0
NIGERIA	:	0.0	0.0	0.0	3.6	0.0	0.0
WESTERN HEMISPHERE	:	124.2	156.7	4063.6	5191.7	302.3	0.0
BARBADO	:	0.0	*	22.6	22.6	4.0	0.0
C RICA	:	0.0	0.0	166.4	215.6	20.2	0.0
CANADA	:	8.2	14.9	439.3	545.2	3.8	0.0
COLOMB	:	0.0	1.1	119.6	180.3	5.2	0.0
CUBA	:	20.0	0.0	118.8	94.6	0.0	0.0
GUATMAL	:	0.0	12.7	9.2	7.1	21.9	0.0
MEXICO	:	88.4	128.1	3117.4	4043.2	247.3	0.0
NICARAG	:	0.0	0.0	0.0	2.8	0.0	0.0
SALVADR	:	0.0	0.0	1.8	0.0	0.0	0.0
TRINID	:	7.5	0.0	60.5	80.4	0.0	0.0
VENEZ	:	0.0	0.0	8.0	0.0	0.0	0.0

SOYBEANS

MARKETING YEAR 09/01 - 08/31

OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
1000 METRIC TONS AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	:OUTSTANDING SALES:ACCUMULATED EXPORTS:				OUTSTANDING SALES	
	:THIS WEEK:	YR AGO:	:THIS WEEK:	YR AGO	:SECOND YR:	THIRD YR
TOTAL KNOWN	: 309.8	589.9	24107.8	28907.5	3907.8	0.0
TOTAL UNKNOWN	: 0.0	9.3	0.0	0.0	1449.0	0.0
TOTAL KNOWN & UNKNOWN	: 309.8	599.2	24107.8	28907.5	5356.8	0.0
EXPORTS FOR OWN ACCT	: -	-	46.8	*	-	-
OPTIONAL ORIGIN	: 0.0	0.0	-	-	60.0	0.0

SOYBEAN CAKE AND MEAL

MARKETING YEAR 10/01 - 09/30

OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
1000 METRIC TONS AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	:OUTSTANDING SALES:ACCUMULATED EXPORTS:				OUTSTANDING SALES	
	:THIS WEEK:	YR AGO:	:THIS WEEK:	YR AGO	:SECOND YR:	THIRD YR
EUROPEAN UNION - 25	: 16.0	4.5	15.3	64.6	0.0	0.0
BELGIUM	: 0.0	0.0	0.0	1.0	0.0	0.0
DENMARK	: 0.0	0.0	2.0	2.0	0.0	0.0
GREECE	: 0.0	0.0	0.0	7.4	0.0	0.0
HUNGARY	: 0.0	4.5	4.2	6.6	0.0	0.0
IRELAND	: 8.0	0.0	0.0	17.1	0.0	0.0
NETHLS	: 0.0	0.0	9.2	13.5	0.0	0.0
U KING	: 8.0	0.0	0.0	17.0	0.0	0.0
OTHER EUROPE	: 0.0	25.0	157.2	173.0	0.0	0.0
TURKEY	: 0.0	25.0	157.2	173.0	0.0	0.0
FORMER SOVIET UNION-12:	0.0	0.0	27.0	47.7	0.0	0.0
RUSSIA	: 0.0	0.0	27.0	47.7	0.0	0.0
JAPAN	: 20.8	33.1	134.3	213.7	8.0	0.0
OTHER ASIA AND OCEANIA:	1.5	166.9	665.6	1488.2	81.0	0.0
AUSTRAL	: 0.0	55.0	224.0	293.8	70.0	0.0
INDNSIA	: 0.0	88.9	94.9	542.1	0.0	0.0
ISRAEL	: 0.0	7.0	28.1	39.2	0.0	0.0
JORDAN	: 0.0	0.0	0.0	6.6	0.0	0.0
KOR REP	: *	0.0	0.1	99.6	0.0	0.0
N ZEAL	: 0.0	11.0	60.8	66.5	11.0	0.0
PHIL	: *	0.0	223.1	252.5	0.0	0.0
S ARAB	: 1.5	5.0	34.5	91.0	0.0	0.0
THAILND	: 0.0	0.0	0.0	96.8	0.0	0.0
AFRICA	: 0.0	14.0	246.2	259.2	24.0	0.0
ALGERIA	: 0.0	0.0	195.6	198.7	0.0	0.0
CAMROON	: 0.0	0.0	0.0	1.0	0.0	0.0
EGYPT	: 0.0	7.0	14.5	31.1	0.0	0.0
GHANA	: 0.0	0.0	0.0	6.3	0.0	0.0
TUNISIA	: 0.0	7.0	36.1	22.0	24.0	0.0
WESTERN HEMISPHERE	: 129.6	290.7	2518.1	2900.9	609.1	51.3
BELIZE	: 0.0	0.5	3.2	3.5	0.0	0.0
CANADA	: 42.8	60.9	798.3	954.8	471.9	51.3
COLOMB	: 0.0	7.0	107.6	61.2	3.0	0.0
CUBA	: 0.0	30.0	121.6	149.3	0.0	0.0
DOM REP	: 0.0	99.1	188.4	327.2	10.0	0.0
ECUADOR	: 0.0	0.0	0.0	30.1	0.0	0.0

SOYBEAN CAKE AND MEAL

MARKETING YEAR 10/01 - 09/30

OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
1000 METRIC TONS AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	:OUTSTANDING SALES:ACCUMULATED EXPORTS: OUTSTANDING SALES					
	:THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	:SECOND YR:	THIRD YR
GUATMAL	: 9.4	27.5	137.6	152.2	15.0	0.0
HONDURA	: 0.0	0.0	77.3	96.4	0.0	0.0
JAMAICA	: 4.3	5.3	91.6	86.3	2.6	0.0
LW WW I	: 0.3	0.3	0.7	1.3	0.0	0.0
MEXICO	: 69.8	31.6	650.5	525.8	100.4	0.0
N ANTIL	: 0.0	0.4	0.0	1.1	0.0	0.0
NICARAG	: 1.8	1.6	26.6	41.2	0.0	0.0
PANAMA	: 0.0	5.3	83.7	131.0	6.2	0.0
PERU	: 0.0	0.0	29.0	14.4	0.0	0.0
SALVADR	: 1.2	5.7	91.5	120.5	0.0	0.0
SURINAM	: 0.0	0.0	7.5	6.3	0.0	0.0
VENEZ	: 0.0	15.6	103.1	198.3	0.0	0.0
TOTAL KNOWN	: 167.9	534.2	3763.8	5147.3	722.1	51.3
TOTAL UNKNOWN	: 0.0	114.3	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN	: 167.9	648.5	3763.8	5147.3	722.1	51.3
EXPORTS FOR OWN ACCT	: -	-	0.0	0.0	-	-
OPTIONAL ORIGIN	: 0.0	0.0	-	-	0.0	0.0

SOYBEAN OIL

MARKETING YEAR 10/01 - 09/30

OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
1000 METRIC TONS AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	:OUTSTANDING SALES:ACCUMULATED EXPORTS: OUTSTANDING SALES					
	:THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	:SECOND YR:	THIRD YR
EUROPEAN UNION - 25	: 0.0	0.0	0.2	0.1	0.0	0.0
CYPRUS	: 0.0	0.0	0.2	0.1	0.0	0.0
GERMANY	: 0.0	0.0	0.0	*	0.0	0.0
U KING	: 0.0	0.0	0.0	*	0.0	0.0
OTHER EUROPE	: 0.0	0.0	*	16.5	0.0	0.0
ICELAND	: 0.0	0.0	*	0.0	0.0	0.0
TURKEY	: 0.0	0.0	0.0	16.5	0.0	0.0
JAPAN	: 0.0	1.0	2.4	3.0	0.0	0.0
TAIWAN	: 0.0	0.0	0.0	10.0	0.0	0.0
CHINA	: 0.0	0.0	0.1	99.0	0.0	0.0
INDIA	: 0.0	0.0	0.0	0.3	0.0	0.0
OTHER ASIA AND OCEANIA:	0.4	0.7	9.2	62.3	3.6	0.0
AM SAMOA	: 0.0	0.0	0.0	*	0.0	0.0
AUSTRAL	: 0.1	*	0.5	0.1	0.0	0.0
BAHRAIN	: 0.0	0.0	0.2	0.1	0.0	0.0
GUAM	: 0.0	0.0	0.0	*	0.0	0.0
HG KONG	: *	*	1.4	1.0	0.0	0.0
INDNSIA	: 0.0	*	0.4	0.2	0.0	0.0
ISRAEL	: 0.0	0.0	0.5	0.4	0.0	0.0
JORDAN	: 0.0	0.0	0.1	9.6	0.0	0.0
KOR REP	: 0.0	0.0	0.9	41.0	0.0	0.0
KUWAIT	: *	*	1.2	4.7	0.0	0.0
LEBANON	: *	*	0.3	0.3	0.0	0.0

SOYBEAN OIL

MARKETING YEAR 10/01 - 09/30

OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
1000 METRIC TONS AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	:OUTSTANDING SALES:ACCUMULATED EXPORTS:				OUTSTANDING SALES	
	:THIS WEEK:	YR AGO:	:THIS WEEK:	YR AGO	:SECOND YR:	THIRD YR
NMARIANA	: 0.0	0.0	*	0.1	0.0	0.0
OMAN	: 0.0	0.0	0.1	0.1	0.0	0.0
PALAU	: 0.0	0.0	*	0.1	0.0	0.0
PHIL	: 0.0	*	0.1	*	0.0	0.0
QATAR	: 0.0	0.0	0.4	0.3	0.0	0.0
S ARAB	: 0.3	0.6	1.3	0.9	3.6	0.0
SINGAPR	: 0.0	0.0	0.6	0.4	0.0	0.0
THAILND	: 0.0	0.0	0.1	0.1	0.0	0.0
U AR EM	: 0.0	0.0	1.1	0.6	0.0	0.0
YEMEN	: 0.0	0.0	0.0	2.4	0.0	0.0
AFRICA	: 15.0	1.0	0.6	105.6	0.0	0.0
ALGERIA	: 0.0	0.0	0.0	21.5	0.0	0.0
EGYPT	: 0.0	1.0	0.6	54.6	0.0	0.0
MOROCCO	: 15.0	0.0	0.0	26.5	0.0	0.0
SENEGAL	: 0.0	0.0	0.0	3.0	0.0	0.0
WESTERN HEMISPHERE	: 17.7	60.1	198.1	369.3	51.5	0.0
BAHAMAS	: 0.0	0.0	0.4	0.3	0.0	0.0
BARBADO	: 0.0	*	0.7	0.1	0.0	0.0
C RICA	: 0.0	0.0	1.4	0.6	0.0	0.0
CANADA	: 3.6	31.2	50.3	58.5	0.5	0.0
COLOMB	: 0.0	0.0	0.6	1.7	0.0	0.0
CUBA	: 0.0	8.0	39.9	59.7	0.0	0.0
DOM REP	: 0.4	0.1	0.3	15.1	0.0	0.0
GUATMAL	: 0.0	1.0	4.3	15.6	0.0	0.0
HAITI	: 0.0	0.0	*	0.4	0.0	0.0
HONDURA	: 0.0	0.0	0.3	0.7	0.0	0.0
JAMAICA	: 2.5	2.0	11.9	16.6	0.0	0.0
MEXICO	: 10.6	14.8	74.2	163.0	51.0	0.0
N ANTIL	: 0.0	0.0	*	0.0	0.0	0.0
NICARAG	: 0.7	0.0	3.0	18.3	0.0	0.0
PANAMA	: 0.0	2.5	3.0	5.8	0.0	0.0
SALVADR	: 0.0	0.5	3.0	13.1	0.0	0.0
TRINID	: 0.0	0.0	4.9	0.0	0.0	0.0
TOTAL KNOWN	: 33.2	62.8	210.5	666.1	55.1	0.0
TOTAL UNKNOWN	: 3.0	0.0	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN	: 36.2	62.8	210.5	666.1	55.1	0.0
EXPORTS FOR OWN ACCT	: -	-	0.0	0.0	-	-
OPTIONAL ORIGIN	: 0.0	0.0	-	-	0.0	0.0

LINSEED OIL

MARKETING YEAR 06/01 - 05/31

OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
1000 METRIC TONS AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	:OUTSTANDING SALES:ACCUMULATED EXPORTS:				OUTSTANDING SALES	
	:THIS WEEK:	YR AGO:	:THIS WEEK:	YR AGO	:SECOND YR:	THIRD YR
EUROPEAN UNION - 25	: 0.0	3.0	2.5	3.0	0.0	0.0
NETHLDS	: 0.0	3.0	2.5	3.0	0.0	0.0
JAPAN	: 0.0	0.0	*	0.0	0.0	0.0
CHINA	: 0.0	0.0	1.0	0.0	0.0	0.0

LINSEED OIL

MARKETING YEAR 06/01 - 05/31

OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
1000 METRIC TONS AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	OUTSTANDING SALES: ACCUMULATED EXPORTS:				OUTSTANDING SALES	
	THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	SECOND YR:	THIRD YR
WESTERN HEMISPHERE	0.3	0.6	0.3	0.3	0.0	0.0
CANADA	0.1	0.2	0.1	0.1	0.0	0.0
MEXICO	0.1	0.4	0.2	0.2	0.0	0.0
TOTAL KNOWN	0.3	3.6	3.9	3.3	0.0	0.0
TOTAL UNKNOWN	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN	0.3	3.6	3.9	3.3	0.0	0.0
EXPORTS FOR OWN ACCT	-	-	0.0	0.0	-	-
OPTIONAL ORIGIN	0.0	0.0	-	-	0.0	0.0

SUNFLOWERSEED OIL

MARKETING YEAR 10/01 - 09/30

OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
1000 METRIC TONS AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	OUTSTANDING SALES: ACCUMULATED EXPORTS:				OUTSTANDING SALES	
	THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	SECOND YR:	THIRD YR
EUROPEAN UNION - 25	0.0	0.0	2.5	0.0	0.0	0.0
SPAIN	0.0	0.0	2.5	0.0	0.0	0.0
JAPAN	0.0	2.6	4.1	7.3	0.0	0.0
TAIWAN	0.0	0.0	0.5	4.5	0.0	0.0
OTHER ASIA AND OCEANIA:	*	*	2.4	4.8	0.0	0.0
IRAQ	0.0	0.0	*	0.0	0.0	0.0
JORDAN	0.0	0.0	2.0	1.0	0.0	0.0
KUWAIT	0.0	0.0	*	0.0	0.0	0.0
LEBANON	*	*	0.3	0.2	0.0	0.0
S ARAB	0.0	0.0	0.0	3.6	0.0	0.0
AFRICA	0.0	0.0	12.1	3.0	0.0	0.0
ALGERIA	0.0	0.0	12.1	0.0	0.0	0.0
EGYPT	0.0	0.0	0.0	3.0	0.0	0.0
WESTERN HEMISPHERE	3.3	5.5	85.7	31.1	3.1	0.0
C RICA	0.0	0.6	2.1	3.6	0.0	0.0
CANADA	1.7	1.5	11.4	12.4	2.6	0.0
GUATMAL	0.0	0.2	0.5	1.9	0.0	0.0
MEXICO	1.6	3.2	70.2	12.9	0.5	0.0
N ANTIL	0.0	0.0	*	0.0	0.0	0.0
NICARAG	0.0	0.0	1.2	0.0	0.0	0.0
SALVADR	0.0	0.0	0.3	0.3	0.0	0.0
TOTAL KNOWN	3.3	8.1	107.3	50.7	3.1	0.0
TOTAL UNKNOWN	0.0	0.5	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN	3.3	8.5	107.3	50.7	3.1	0.0
EXPORTS FOR OWN ACCT	-	-	0.0	0.0	-	-
OPTIONAL ORIGIN	0.0	0.0	-	-	0.0	0.0

COTTONSEED MARKETING YEAR 08/01 - 07/31
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 METRIC TONS AS OF AUGUST 26, 2004

	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	OUTSTANDING SALES		ACCUMULATED EXPORTS		OUTSTANDING SALES	
DESTINATION	THIS WEEK	YR AGO	THIS WEEK	YR AGO	SECOND YR	THIRD YR
JAPAN	0.1	15.2	0.0	0.0	0.0	0.0
TAIWAN	0.0	0.0	0.1	0.0	0.0	0.0
OTHER ASIA AND OCEANIA:	20.7	13.1	1.0	1.5	0.0	0.0
KOR REP	20.7	13.1	1.0	1.5	0.0	0.0
WESTERN HEMISPHERE	9.7	1.4	7.9	1.6	0.0	0.0
MEXICO	9.7	1.4	7.9	1.6	0.0	0.0
TOTAL KNOWN	30.5	29.6	9.0	3.1	0.0	0.0
TOTAL UNKNOWN	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN	30.5	29.6	9.0	3.1	0.0	0.0
EXPORTS FOR OWN ACCT	-	-	0.0	0.0	-	-
OPTIONAL ORIGIN	0.0	0.0	-	-	0.0	0.0

COTTONSEED CAKE AND MEAL MARKETING YEAR 10/01 - 09/30
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 METRIC TONS AS OF AUGUST 26, 2004

	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	OUTSTANDING SALES		ACCUMULATED EXPORTS		OUTSTANDING SALES	
DESTINATION	THIS WEEK	YR AGO	THIS WEEK	YR AGO	SECOND YR	THIRD YR
WESTERN HEMISPHERE	7.8	10.4	103.4	88.4	0.0	0.0
MEXICO	7.8	10.4	103.4	88.4	0.0	0.0
TOTAL KNOWN	7.8	10.4	103.4	88.4	0.0	0.0
TOTAL UNKNOWN	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN	7.8	10.4	103.4	88.4	0.0	0.0
EXPORTS FOR OWN ACCT	-	-	0.0	0.0	-	-
OPTIONAL ORIGIN	0.0	0.0	-	-	0.0	0.0

COTTONSEED OIL MARKETING YEAR 10/01 - 09/30
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 METRIC TONS AS OF AUGUST 26, 2004

	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	OUTSTANDING SALES		ACCUMULATED EXPORTS		OUTSTANDING SALES	
DESTINATION	THIS WEEK	YR AGO	THIS WEEK	YR AGO	SECOND YR	THIRD YR
EUROPEAN UNION - 25	0.0	0.0	0.1	*	0.0	0.0
GREECE	0.0	0.0	0.1	0.0	0.0	0.0
U KING	0.0	0.0	*	*	0.0	0.0
JAPAN	1.1	4.5	5.0	0.6	0.0	0.0
CHINA	0.0	0.0	0.1	0.0	0.0	0.0

COTTONSEED OIL MARKETING YEAR 10/01 - 09/30
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 METRIC TONS AS OF AUGUST 26, 2004

		CURRENT MARKETING YEAR				:NEXT MARKETING YEAR	
		:OUTSTANDING SALES:ACCUMULATED EXPORTS: OUTSTANDING SALES					
DESTINATION		:THIS WEEK:	YR AGO:	:THIS WEEK:	YR AGO	:SECOND YR:	THIRD YR
OTHER ASIA AND OCEANIA:		0.0	0.0	*	*	0.0	0.0
LEBANON	:	0.0	0.0	*	*	0.0	0.0
	:						
WESTERN HEMISPHERE	:	0.9	0.4	2.9	5.1	0.0	0.0
CANADA	:	0.7	0.2	1.5	1.5	0.0	0.0
COLOMB	:	0.0	0.0	*	0.0	0.0	0.0
MEXICO	:	0.3	0.2	1.3	3.2	0.0	0.0
SALVADR	:	0.0	0.0	0.0	0.4	0.0	0.0
TOTAL KNOWN	:	2.0	4.9	8.0	5.7	0.0	0.0
TOTAL UNKNOWN	:	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN	:	2.0	4.9	8.0	5.7	0.0	0.0
EXPORTS FOR OWN ACCT	:	-	-	0.0	0.0	-	-
OPTIONAL ORIGIN	:	0.0	0.0	-	-	0.0	0.0

COTTON - AMERICAN PIMA - RAW, EXTRA LONG STAPLE MARKETING YEAR 08/01 - 07/31
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 RUNNING BALES AS OF AUGUST 26, 2004

	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	OUTSTANDING SALES:ACCUMULATED EXPORTS: OUTSTANDING SALES					
DESTINATION	THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	SECOND YR:	THIRD YR
EUROPEAN UNION - 25	10.2	27.9	0.3	0.7	0.0	0.0
AUSTRIA	2.1	0.0	0.0	0.0	0.0	0.0
BELGIUM	2.1	6.5	0.0	0.0	0.0	0.0
GERMANY	0.4	15.2	0.0	0.0	0.0	0.0
ITALY	5.5	6.1	0.3	0.5	0.0	0.0
PORTUGL	0.0	0.0	0.0	0.3	0.0	0.0
OTHER EUROPE	4.0	10.8	0.0	0.0	0.0	0.0
SWITZLD	4.0	10.8	0.0	0.0	0.0	0.0
JAPAN	23.2	16.2	3.3	3.3	0.0	0.0
TAIWAN	0.7	0.0	0.0	0.0	0.0	0.0
CHINA	1.4	0.3	0.9	0.1	0.0	0.0
INDIA	0.9	13.5	1.9	1.1	0.0	0.0
OTHER ASIA AND OCEANIA:	21.3	11.8	15.3	10.6	0.0	0.0
BANGLADH	0.3	0.2	1.3	2.0	0.0	0.0
INDNSIA	4.8	1.3	3.1	1.7	0.0	0.0
KOR REP	4.1	1.4	1.1	0.0	0.0	0.0
MALAYSA	0.3	0.0	0.1	0.0	0.0	0.0
PAKISTN	7.8	7.9	4.3	6.1	0.0	0.0
THAILND	4.0	1.1	0.6	0.8	0.0	0.0
U AR EM	0.0	0.0	4.3	0.0	0.0	0.0
VIETNAM	0.0	0.0	0.5	0.0	0.0	0.0
WESTERN HEMISPHERE	9.0	6.9	3.0	1.0	0.0	0.0
BRAZIL	0.0	0.9	0.3	0.2	0.0	0.0
CANADA	*	0.0	2.7	0.0	0.0	0.0
CHILE	0.0	0.0	*	0.0	0.0	0.0
GUATMAL	0.3	0.0	0.0	0.0	0.0	0.0

COTTON - AMERICAN PIMA - RAW, EXTRA LONG STAPLE MARKETING YEAR 08/01 - 07/31
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 RUNNING BALES AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	OUTSTANDING SALES		ACCUMULATED EXPORTS		OUTSTANDING SALES	
	THIS WEEK	YR AGO	THIS WEEK	YR AGO	SECOND YR	THIRD YR
MEXICO	0.0	0.3	0.0	0.0	0.0	0.0
PERU	8.7	5.7	0.0	0.8	0.0	0.0
TOTAL KNOWN	70.6	87.5	24.9	16.8	0.0	0.0
TOTAL UNKNOWN	0.0	2.6	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN	70.6	90.0	24.9	16.8	0.0	0.0
EXPORTS FOR OWN ACCT	-	-	0.0	0.0	-	-
OPTIONAL ORIGIN	0.0	0.0	-	-	0.0	0.0

ALL UPLAND COTTON MARKETING YEAR 08/01 - 07/31
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 RUNNING BALES AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	OUTSTANDING SALES		ACCUMULATED EXPORTS		OUTSTANDING SALES	
	THIS WEEK	YR AGO	THIS WEEK	YR AGO	SECOND YR	THIRD YR
EUROPEAN UNION - 25	119.8	49.2	57.3	12.4	10.8	0.0
AUSTRIA	2.0	0.0	1.0	0.0	0.0	0.0
BELGIUM	28.7	0.0	46.3	4.6	0.0	0.0
ESTONIA	5.3	4.2	0.5	1.0	0.0	0.0
FRANCE	0.0	0.0	0.0	0.3	0.0	0.0
GERMANY	1.8	0.9	0.3	0.0	0.0	0.0
IRELAND	37.3	11.7	1.4	3.7	7.5	0.0
ITALY	42.4	28.4	7.0	1.0	3.3	0.0
PORTUGL	1.3	0.3	0.0	1.1	0.0	0.0
SLOVENIA	1.1	1.3	0.7	0.3	0.0	0.0
SWEDEN	0.0	2.5	0.0	0.4	0.0	0.0
OTHER EUROPE	294.0	100.3	113.5	156.1	0.4	0.0
SWITZLD	0.0	2.3	0.0	0.0	0.0	0.0
TURKEY	294.0	98.1	113.5	156.1	0.4	0.0
JAPAN	156.8	90.7	12.1	19.5	0.0	0.0
TAIWAN	51.5	46.4	42.1	29.0	0.0	0.0
CHINA	130.0	50.7	56.4	58.4	0.0	0.0
INDIA	32.4	55.9	58.4	81.2	0.0	0.0
OTHER ASIA AND OCEANIA:	1707.2	596.5	272.9	219.6	9.9	0.0
BAHRAIN	5.5	4.0	0.0	2.8	0.0	0.0
BANGLADH	30.2	26.6	27.6	28.1	0.0	0.0
CAMBODIA	0.0	0.4	0.0	0.4	0.0	0.0
HG KONG	66.9	*	24.8	5.8	0.0	0.0
INDNSIA	564.2	264.2	64.6	67.2	6.2	0.0
KOR REP	362.4	163.5	20.0	57.1	2.7	0.0
MALAYSA	1.3	0.7	1.5	0.5	0.0	0.0
PAKISTN	239.7	16.7	72.9	10.5	0.0	0.0
PHIL	62.8	19.5	4.5	3.6	1.0	0.0
S LANKA	4.2	4.7	0.7	0.6	0.0	0.0
SINGAPR	0.0	0.0	0.0	2.0	0.0	0.0
THAILND	333.6	91.5	42.8	30.9	0.0	0.0
U AR EM	2.6	0.0	3.3	0.0	0.0	0.0
VIETNAM	33.8	4.7	10.3	10.1	0.0	0.0

ALL UPLAND COTTON MARKETING YEAR 08/01 - 07/31
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 RUNNING BALES AS OF AUGUST 26, 2004

	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	OUTSTANDING SALES:ACCUMULATED EXPORTS: OUTSTANDING SALES					
DESTINATION	THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	SECOND YR:	THIRD YR
AFRICA	2.2	0.0	0.0	0.0	0.0	0.0
MAURIT	2.2	0.0	0.0	0.0	0.0	0.0
WESTERN HEMISPHERE	1728.8	1357.4	122.3	216.9	136.3	0.0
BRAZIL	32.8	26.8	2.1	13.1	0.0	0.0
CANADA	262.1	319.4	16.3	20.1	3.1	0.0
CHILE	2.1	0.0	0.0	4.5	0.0	0.0
COLOMB	25.1	59.3	2.0	10.2	0.0	0.0
CUBA	3.9	1.1	0.0	0.3	0.0	0.0
ECUADOR	25.7	18.0	8.5	5.8	0.0	0.0
GUATMAL	51.0	9.4	4.5	11.0	6.4	0.0
HONDURA	2.0	0.4	0.0	0.2	0.0	0.0
MEXICO	1213.6	832.0	76.9	132.8	110.4	0.0
PERU	20.4	9.8	7.9	4.4	0.0	0.0
SALVADR	67.7	46.7	4.1	11.5	16.4	0.0
VENEZ	22.4	34.4	0.0	2.9	0.0	0.0
TOTAL KNOWN	4222.7	2347.1	735.0	793.0	157.3	0.0
TOTAL UNKNOWN	19.1	44.0	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN	4241.8	2391.1	735.0	793.0	157.3	0.0
EXPORTS FOR OWN ACCT	-	-	0.0	0.0	-	-
OPTIONAL ORIGIN	0.0	0.0	-	-	0.0	0.0

LONG GRAIN, ROUGH MARKETING YEAR 08/01 - 07/31
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 METRIC TONS AS OF AUGUST 26, 2004

	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	OUTSTANDING SALES:ACCUMULATED EXPORTS: OUTSTANDING SALES					
DESTINATION	THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	SECOND YR:	THIRD YR
EUROPEAN UNION - 25	10.0	0.0	0.0	0.0	0.0	0.0
SPAIN	10.0	0.0	0.0	0.0	0.0	0.0
WESTERN HEMISPHERE	118.0	118.9	84.6	168.8	0.0	0.0
BRAZIL	0.0	0.0	0.0	61.8	0.0	0.0
GUATMAL	0.4	0.0	0.0	0.0	0.0	0.0
HONDURA	1.4	3.0	1.0	12.0	0.0	0.0
JAMAICA	17.5	16.8	3.4	5.3	0.0	0.0
MEXICO	69.7	87.2	43.7	40.1	0.0	0.0
NICARAG	18.0	10.5	30.7	7.5	0.0	0.0
SALVADR	11.1	1.4	5.8	3.4	0.0	0.0
VENEZ	0.0	0.0	0.0	38.8	0.0	0.0
TOTAL KNOWN	128.0	118.9	84.6	168.8	0.0	0.0
TOTAL UNKNOWN	0.0	11.0	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN	128.0	129.9	84.6	168.8	0.0	0.0
EXPORTS FOR OWN ACCT	-	-	0.0	0.0	-	-
OPTIONAL ORIGIN	0.0	0.0	-	-	0.0	0.0

ALL RICE
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 METRIC TONS AS OF AUGUST 26, 2004

MARKETING YEAR 08/01 - 07/31

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	OUTSTANDING SALES		ACCUMULATED EXPORTS		OUTSTANDING SALES	
	THIS WEEK	YR AGO	THIS WEEK	YR AGO	SECOND YR	THIRD YR
EUROPEAN UNION - 25	45.6	35.8	13.2	26.5	0.0	0.0
AUSTRIA	0.0	*	0.0	0.0	0.0	0.0
BELGIUM	4.7	3.8	*	4.4	0.0	0.0
CYPRUS	0.5	0.0	0.0	0.0	0.0	0.0
DENMARK	0.0	0.0	*	0.0	0.0	0.0
FINLAND	0.2	0.1	0.0	0.1	0.0	0.0
FRANCE	3.5	1.9	1.6	2.0	0.0	0.0
GERMANY	13.6	10.6	2.5	8.5	0.0	0.0
ITALY	0.0	0.0	*	0.0	0.0	0.0
MALTA	0.2	0.2	*	*	0.0	0.0
NETHLDs	1.5	5.4	0.4	0.4	0.0	0.0
POLAND	0.0	0.2	0.0	0.0	0.0	0.0
SPAIN	10.0	0.9	0.0	0.1	0.0	0.0
SWEDEN	0.4	1.0	0.5	0.1	0.0	0.0
U KING	11.0	11.8	8.2	10.8	0.0	0.0
OTHER EUROPE	9.3	4.5	0.3	4.1	0.0	0.0
GIBRALT	*	*	0.0	0.0	0.0	0.0
ICELAND	0.1	0.1	*	*	0.0	0.0
NORWAY	1.1	0.7	0.1	0.2	0.0	0.0
SWITZLD	8.0	3.6	0.1	4.0	0.0	0.0
TURKEY	0.0	*	0.0	0.0	0.0	0.0
FORMER SOVIET UNION-12	0.3	0.1	0.1	0.2	0.0	0.0
RUSSIA	0.3	0.1	0.1	0.2	0.0	0.0
JAPAN	0.2	3.1	0.6	1.1	0.0	0.0
TAIWAN	10.0	36.1	4.5	4.5	0.0	0.0
OTHER ASIA AND OCEANIA:	41.9	18.1	12.6	6.0	0.0	0.0
AM SAMOA	0.3	*	*	*	0.0	0.0
AUSTRAL	0.1	*	*	0.1	0.0	0.0
BAHRAIN	0.0	0.0	0.0	*	0.0	0.0
BR P IS	0.1	0.0	0.0	0.0	0.0	0.0
FR P IS	0.1	*	0.0	0.0	0.0	0.0
GUAM	0.2	0.3	0.2	0.4	0.0	0.0
HG KONG	0.6	0.1	*	0.3	0.0	0.0
INDNSIA	*	0.1	0.1	*	0.0	0.0
ISRAEL	6.2	0.3	0.1	0.1	0.0	0.0
JORDAN	12.5	0.6	1.7	0.0	0.0	0.0
KOR REP	15.0	0.0	0.0	*	0.0	0.0
KUWAIT	0.0	0.1	*	*	0.0	0.0
LEBANON	1.3	1.0	0.2	0.1	0.0	0.0
MACAU	0.0	0.0	*	0.0	0.0	0.0
MALAYSA	0.0	0.0	*	*	0.0	0.0
MARSHALL	*	*	*	0.1	0.0	0.0
MICRONES	1.0	*	0.3	0.9	0.0	0.0
N ZEAL	0.0	*	0.0	0.0	0.0	0.0
NMARIANA	0.2	0.1	0.1	0.2	0.0	0.0
PAKISTN	0.0	0.0	0.0	*	0.0	0.0
PALAU	0.2	*	*	0.1	0.0	0.0
S ARAB	0.3	13.1	8.2	2.0	0.0	0.0
S LANKA	*	0.0	0.0	0.0	0.0	0.0
SINGAPR	0.6	*	0.1	*	0.0	0.0
SYRIA	0.0	1.0	0.0	0.0	0.0	0.0
U AR EM	1.3	0.5	0.1	*	0.0	0.0
W SAMOA	2.1	0.0	1.1	0.3	0.0	0.0
YEMEN	0.0	0.6	0.3	1.1	0.0	0.0
AFRICA	7.8	27.1	10.0	12.0	0.0	0.0

ALL RICE

MARKETING YEAR 08/01 - 07/31

OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
1000 METRIC TONS AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	OUTSTANDING SALES: ACCUMULATED EXPORTS:				OUTSTANDING SALES	
	THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	SECOND YR:	THIRD YR
ANGOLA	0.1	0.1	0.0	0.0	0.0	0.0
C IVOIRE	0.0	0.0	3.0	0.0	0.0	0.0
EGYPT	0.2	0.1	0.0	0.0	0.0	0.0
ETHIOP	0.0	0.0	*	0.0	0.0	0.0
F IND O	0.0	0.1	0.0	0.2	0.0	0.0
GHANA	6.0	8.0	7.0	2.0	0.0	0.0
GUIN-CON	0.0	1.4	0.0	0.5	0.0	0.0
LIBERIA	0.8	5.7	0.0	2.3	0.0	0.0
LIBYA	0.2	0.1	0.0	0.0	0.0	0.0
MOROCCO	0.0	0.1	0.0	0.1	0.0	0.0
NIGERIA	0.5	0.4	0.0	*	0.0	0.0
REP SAF	0.0	11.2	0.0	6.8	0.0	0.0
TUNISIA	0.0	0.1	0.0	0.0	0.0	0.0
WESTERN HEMISPHERE	187.2	265.8	100.2	233.7	0.0	0.0
ARGENT	0.0	0.9	0.0	0.2	0.0	0.0
BAHAMAS	0.5	0.2	0.4	0.4	0.0	0.0
BARBADO	0.0	1.0	0.0	0.0	0.0	0.0
BELIZE	*	*	0.0	*	0.0	0.0
BERMUDA	0.4	0.1	0.0	0.1	0.0	0.0
BRAZIL	0.0	2.0	*	64.8	0.0	0.0
C RICA	0.3	0.2	0.1	*	0.0	0.0
CANADA	31.0	56.4	8.7	12.9	0.0	0.0
CAYMAN	0.1	*	0.0	*	0.0	0.0
CHILE	*	1.1	0.0	0.0	0.0	0.0
COLOMB	0.1	0.1	0.0	0.0	0.0	0.0
CUBA	0.0	0.0	*	10.0	0.0	0.0
DOM REP	*	0.1	0.0	0.0	0.0	0.0
ECUADOR	*	0.0	0.0	0.0	0.0	0.0
F W IND	0.1	0.3	0.0	1.1	0.0	0.0
GUATMAL	0.5	1.1	0.0	0.2	0.0	0.0
HAITI	15.9	66.5	1.8	29.4	0.0	0.0
HONDURA	1.4	3.4	1.0	12.6	0.0	0.0
JAMAICA	20.7	16.9	3.5	5.4	0.0	0.0
LW WW I	1.3	1.3	*	1.2	0.0	0.0
MEXICO	83.0	94.5	47.6	42.6	0.0	0.0
N ANTIL	0.1	0.2	0.4	0.1	0.0	0.0
NICARAG	18.9	11.0	30.8	7.7	0.0	0.0
PANAMA	0.6	0.2	0.0	*	0.0	0.0
PERU	0.0	4.0	0.0	0.2	0.0	0.0
SALVADR	11.1	1.4	5.8	3.4	0.0	0.0
TRINID	0.1	2.5	0.0	2.5	0.0	0.0
TURK IS	*	0.0	0.0	0.0	0.0	0.0
VENEZ	*	0.1	*	38.8	0.0	0.0
VIRGIN I	0.9	0.3	*	*	0.0	0.0
TOTAL KNOWN	302.2	390.6	141.6	288.1	0.0	0.0
TOTAL UNKNOWN	0.0	11.0	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN	302.2	401.6	141.6	288.1	0.0	0.0
EXPORTS FOR OWN ACCT	-	-	0.0	0.0	-	-
OPTIONAL ORIGIN	0.0	0.0	-	-	0.0	0.0

CATTLE HIDES - WHOLE - EXCLUDING WET BLUES MARKETING YEAR 01/01 - 12/31
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 PIECES AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	OUTSTANDING SALES		ACCUMULATED EXPORTS		OUTSTANDING SALES	
	THIS WEEK	YR AGO	THIS WEEK	YR AGO	SECOND YR	THIRD YR
EUROPEAN UNION - 25	60.6	69.9	345.4	827.1	0.0	0.0
AUSTRIA	0.3	0.0	0.6	0.0	0.0	0.0
FRANCE	0.0	0.0	0.0	0.6	0.0	0.0
GERMANY	0.0	0.0	4.7	0.0	0.0	0.0
ITALY	54.2	48.6	283.7	721.1	0.0	0.0
NETHLD	6.0	11.4	45.6	37.0	0.0	0.0
PORTUGL	0.0	0.0	7.9	2.5	0.0	0.0
SPAIN	0.0	2.0	0.9	64.5	0.0	0.0
U KING	0.0	7.8	2.2	1.3	0.0	0.0
OTHER EUROPE	0.0	3.1	38.7	49.5	0.0	0.0
CROATIA	0.0	0.0	0.0	0.9	0.0	0.0
TURKEY	0.0	3.1	38.7	48.7	0.0	0.0
JAPAN	315.4	324.9	893.3	953.5	0.0	0.0
TAIWAN	216.8	211.6	1454.2	1556.3	0.0	0.0
CHINA	1261.5	1203.4	4924.9	4294.8	0.0	0.0
INDIA	0.0	0.0	0.0	0.9	0.0	0.0
OTHER ASIA AND OCEANIA	1905.9	2020.8	6359.3	7011.2	0.0	0.0
HG KONG	548.4	623.3	1140.1	1472.3	0.0	0.0
KOR REP	1304.1	1336.4	4724.3	5002.6	0.0	0.0
N ZEAL	0.0	0.0	0.0	4.2	0.0	0.0
PHIL	0.2	0.0	0.0	0.0	0.0	0.0
THAILND	48.7	61.1	475.6	530.5	0.0	0.0
VIETNAM	4.7	0.0	19.3	1.5	0.0	0.0
AFRICA	34.0	0.0	66.1	0.0	0.0	0.0
REP SAF	34.0	0.0	66.1	0.0	0.0	0.0
WESTERN HEMISPHERE	303.8	350.2	990.0	1137.6	0.0	0.0
ARGENT	0.0	2.1	0.5	3.9	0.0	0.0
BRAZIL	0.0	2.0	0.0	3.6	0.0	0.0
CANADA	9.1	12.2	151.1	135.3	0.0	0.0
DOM REP	0.0	7.1	29.5	4.0	0.0	0.0
MEXICO	294.7	326.8	806.5	971.8	0.0	0.0
URUGUAY	0.0	0.0	2.4	19.1	0.0	0.0
TOTAL KNOWN	4098.0	4183.9	15071.8	15831.0	0.0	0.0
TOTAL UNKNOWN	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN	4098.0	4183.9	15071.8	15831.0	0.0	0.0
EXPORTS FOR OWN ACCT	-	-	0.0	0.0	-	-
OPTIONAL ORIGIN	0.0	0.0	-	-	0.0	0.0

CALF SKINS - WHOLE - EXCLUDING WET BLUES MARKETING YEAR 01/01 - 12/31
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 PIECES AS OF AUGUST 26, 2004

	:	CURRENT MARKETING YEAR				:NEXT MARKETING YEAR	
	:	:OUTSTANDING SALES:ACCUMULATED EXPORTS:				OUTSTANDING SALES	
DESTINATION	:	THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	:SECOND YR:	THIRD YR
EUROPEAN UNION - 25	:	27.2	3.9	458.9	711.9	0.0	0.0
ITALY	:	27.2	3.9	458.9	711.9	0.0	0.0
OTHER EUROPE	:	0.0	0.0	4.8	0.0	0.0	0.0
TURKEY	:	0.0	0.0	4.8	0.0	0.0	0.0
JAPAN	:	9.4	10.4	22.1	23.2	0.0	0.0
CHINA	:	0.0	2.2	4.1	1.7	0.0	0.0
INDIA	:	0.0	0.0	38.1	0.0	0.0	0.0
OTHER ASIA AND OCEANIA:	:	21.1	0.0	61.8	0.0	0.0	0.0
HONG KONG	:	19.5	0.0	57.8	0.0	0.0	0.0
ISRAEL	:	1.6	0.0	0.0	0.0	0.0	0.0
PAKISTAN	:	0.0	0.0	4.0	0.0	0.0	0.0
WESTERN HEMISPHERE	:	28.7	2.8	30.3	1.5	0.0	0.0
CANADA	:	28.7	0.0	30.3	0.0	0.0	0.0
MEXICO	:	0.0	2.8	0.0	1.5	0.0	0.0
TOTAL KNOWN	:	86.4	19.3	620.0	738.2	0.0	0.0
TOTAL UNKNOWN	:	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN	:	86.4	19.3	620.0	738.2	0.0	0.0
EXPORTS FOR OWN ACCT	:	-	-	0.0	0.0	-	-
OPTIONAL ORIGIN	:	0.0	0.0	-	-	0.0	0.0

KIP SKINS - WHOLE - EXCLUDING WET BLUES MARKETING YEAR 01/01 - 12/31
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 PIECES AS OF AUGUST 26, 2004

	:	CURRENT MARKETING YEAR				:NEXT MARKETING YEAR	
	:	OUTSTANDING SALES		ACCUMULATED EXPORTS		: OUTSTANDING SALES	
DESTINATION	:	THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	:SECOND YR:	THIRD YR
EUROPEAN UNION - 25	:	7.3	7.6	210.2	276.0	0.0	0.0
FRANCE	:	0.0	2.6	1.3	2.6	0.0	0.0
ITALY	:	5.9	5.0	206.1	269.5	0.0	0.0
SPAIN	:	1.4	0.0	2.8	3.9	0.0	0.0
OTHER EUROPE	:	0.0	0.0	4.0	0.7	0.0	0.0
TURKEY	:	0.0	0.0	4.0	0.7	0.0	0.0
JAPAN	:	5.1	10.4	126.7	79.5	0.0	0.0
TAIWAN	:	0.0	0.0	1.0	0.0	0.0	0.0
CHINA	:	5.4	29.8	16.3	52.2	0.0	0.0
OTHER ASIA AND OCEANIA:	:	9.6	21.8	116.6	122.3	0.0	0.0
HONG KONG	:	4.0	4.6	99.6	97.9	0.0	0.0
ISRAEL	:	0.0	0.0	1.5	5.4	0.0	0.0
KOR REP	:	5.6	17.2	15.5	19.1	0.0	0.0
WESTERN HEMISPHERE	:	0.8	2.5	9.4	5.3	0.0	0.0

KIP SKINS - WHOLE - EXCLUDING WET BLUES MARKETING YEAR 01/01 - 12/31
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 PIECES AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	OUTSTANDING SALES: ACCUMULATED EXPORTS:				OUTSTANDING SALES	
	THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	SECOND YR:	THIRD YR
CANADA	0.0	0.0	0.0	1.4	0.0	0.0
MEXICO	0.8	2.5	9.4	4.0	0.0	0.0
TOTAL KNOWN	28.1	72.1	484.1	536.0	0.0	0.0
TOTAL UNKNOWN	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN	28.1	72.1	484.1	536.0	0.0	0.0
EXPORTS FOR OWN ACCT	-	-	0.0	0.0	-	-
OPTIONAL ORIGIN	0.0	0.0	-	-	0.0	0.0

CATTLE HIDES-CUT INTO CROUPONS, ETC-EXCL WET BLUES MARKETING YEAR 01/01 - 12/31
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 NUMBER AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	OUTSTANDING SALES: ACCUMULATED EXPORTS:				OUTSTANDING SALES	
	THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	SECOND YR:	THIRD YR
WESTERN HEMISPHERE	0.0	0.0	3.9	8.4	0.0	0.0
MEXICO	0.0	0.0	3.9	8.4	0.0	0.0
TOTAL KNOWN	0.0	0.0	3.9	8.4	0.0	0.0
TOTAL UNKNOWN	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN	0.0	0.0	3.9	8.4	0.0	0.0
EXPORTS FOR OWN ACCT	-	-	0.0	0.0	-	-
OPTIONAL ORIGIN	0.0	0.0	-	-	0.0	0.0

CATTLE HIDES AND SKINS-OTHER-EXCLUDING WET BLUES MARKETING YEAR 01/01 - 12/31
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 POUNDS AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	OUTSTANDING SALES: ACCUMULATED EXPORTS:				OUTSTANDING SALES	
	THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	SECOND YR:	THIRD YR
EUROPEAN UNION - 25	270.0	0.0	360.0	225.0	0.0	0.0
ITALY	0.0	0.0	45.0	225.0	0.0	0.0
SPAIN	270.0	0.0	315.0	0.0	0.0	0.0
CHINA	0.0	0.0	0.0	270.0	0.0	0.0
OTHER ASIA AND OCEANIA:	0.0	720.0	0.0	947.9	0.0	0.0
HONG KONG	0.0	0.0	0.0	91.1	0.0	0.0
KOR REP	0.0	720.0	0.0	856.8	0.0	0.0
WESTERN HEMISPHERE	495.0	450.0	1530.0	3076.5	0.0	0.0
MEXICO	495.0	450.0	1530.0	3076.5	0.0	0.0

CATTLE HIDES AND SKINS-OTHER-EXCLUDING WET BLUES MARKETING YEAR 01/01 - 12/31
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 POUNDS AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	:OUTSTANDING SALES:ACCUMULATED EXPORTS:				OUTSTANDING SALES	
	:THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	:SECOND YR:	THIRD YR
TOTAL KNOWN	: 765.0	1170.0	1890.0	4519.3	0.0	0.0
TOTAL UNKNOWN	: 0.0	0.0	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN	: 765.0	1170.0	1890.0	4519.3	0.0	0.0
EXPORTS FOR OWN ACCT	: -	-	0.0	0.0	-	-
OPTIONAL ORIGIN	: 0.0	0.0	-	-	0.0	0.0

CATTLE WET BLUES-UNSPPLIT (WHOLE OR SIDED) MARKETING YEAR 01/01 - 12/31
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 NUMBER AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	:OUTSTANDING SALES:ACCUMULATED EXPORTS:				OUTSTANDING SALES	
	:THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	:SECOND YR:	THIRD YR
EUROPEAN UNION - 25	: 34.5	118.7	608.3	710.4	0.0	0.0
FRANCE	: 2.1	0.0	0.0	0.0	0.0	0.0
ITALY	: 32.4	118.7	608.3	710.4	0.0	0.0
TAIWAN	: 28.0	96.8	374.6	542.8	0.0	0.0
CHINA	: 45.5	23.6	376.1	151.5	0.0	0.0
INDIA	: 0.0	6.9	18.3	21.6	0.0	0.0
OTHER ASIA AND OCEANIA:	112.0	194.6	1513.4	928.1	0.0	0.0
HONG KONG	: 100.3	93.7	1068.7	732.1	0.0	0.0
INDONESIA	: 0.0	7.2	76.2	0.0	0.0	0.0
KOR REP	: 3.2	87.6	218.0	151.5	0.0	0.0
THAILAND	: 8.5	6.1	150.5	44.5	0.0	0.0
WESTERN HEMISPHERE	: 44.3	50.7	185.9	179.7	0.0	0.0
DOM REP	: 7.2	15.8	57.6	45.3	0.0	0.0
MEXICO	: 37.1	34.9	128.3	134.4	0.0	0.0
TOTAL KNOWN	: 264.3	491.2	3076.6	2534.2	0.0	0.0
TOTAL UNKNOWN	: 0.0	0.0	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN	: 264.3	491.2	3076.6	2534.2	0.0	0.0
EXPORTS FOR OWN ACCT	: -	-	0.0	0.0	-	-
OPTIONAL ORIGIN	: 0.0	0.0	-	-	0.0	0.0

CATTLE WET BLUES-GRAIN SPLITS (WHOLE OR SIDED) MARKETING YEAR 01/01 - 12/31
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 NUMBER AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	OUTSTANDING SALES: ACCUMULATED EXPORTS:				OUTSTANDING SALES	
	THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	SECOND YR:	THIRD YR
EUROPEAN UNION - 25	11.1	31.1	40.4	90.1	0.0	0.0
ESTONIA	0.0	0.0	*	0.0	0.0	0.0
GERMANY	0.0	0.0	2.7	5.2	0.0	0.0
ITALY	9.8	14.4	23.0	48.1	0.0	0.0
NETHLDS	0.0	0.0	0.9	0.0	0.0	0.0
PORTUGL	1.3	9.7	5.4	9.6	0.0	0.0
SPAIN	0.0	7.1	8.4	27.2	0.0	0.0
JAPAN	17.1	12.6	36.5	22.7	0.0	0.0
TAIWAN	0.0	0.0	57.5	28.7	0.0	0.0
CHINA	0.0	0.0	21.2	3.2	0.0	0.0
INDIA	0.0	4.4	1.5	5.3	0.0	0.0
OTHER ASIA AND OCEANIA:	106.8	62.0	168.1	214.5	0.0	0.0
HG KONG	18.6	21.6	71.5	26.1	0.0	0.0
KOR REP	88.2	40.3	72.7	184.8	0.0	0.0
PAKISTN	0.0	0.0	*	0.0	0.0	0.0
THAILND	0.0	0.0	23.8	3.6	0.0	0.0
AFRICA	0.0	0.0	1.7	0.0	0.0	0.0
REP SAF	0.0	0.0	1.7	0.0	0.0	0.0
TUNISIA	0.0	0.0	*	0.0	0.0	0.0
WESTERN HEMISPHERE	34.8	16.9	193.3	195.1	0.0	0.0
BRAZIL	0.0	0.0	2.5	0.0	0.0	0.0
C RICA	0.0	0.0	7.8	21.2	0.0	0.0
CANADA	1.3	1.8	7.9	11.6	0.0	0.0
DOM REP	16.2	0.0	20.5	8.5	0.0	0.0
MEXICO	17.3	15.1	154.5	153.9	0.0	0.0
TOTAL KNOWN	169.7	127.0	520.0	559.5	0.0	0.0
TOTAL UNKNOWN	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN	169.7	127.0	520.0	559.5	0.0	0.0
EXPORTS FOR OWN ACCT	-	-	0.0	0.0	-	-
OPTIONAL ORIGIN	0.0	0.0	-	-	0.0	0.0

CATTLE WET BLUES-SPLITS-EXCLUDING GRAIN SPLITS MARKETING YEAR 01/01 - 12/31
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 POUNDS AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	OUTSTANDING SALES: ACCUMULATED EXPORTS:				OUTSTANDING SALES	
	THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	SECOND YR:	THIRD YR
EUROPEAN UNION - 25	1510.6	1937.0	10274.8	12562.9	0.0	0.0
ITALY	1510.6	1387.0	10142.2	12520.0	0.0	0.0
SPAIN	0.0	550.0	132.6	42.9	0.0	0.0
TAIWAN	514.0	59.3	1833.7	889.7	0.0	0.0
CHINA	4564.7	1769.0	7886.8	3225.4	0.0	0.0

CATTLE WET BLUES-SPLITS-EXCLUDING GRAIN SPLITS MARKETING YEAR 01/01 - 12/31
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 POUNDS AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	OUTSTANDING SALES:ACCUMULATED EXPORTS:				OUTSTANDING SALES	
	THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	SECOND YR:	THIRD YR
INDIA	0.0	0.0	22.4	22.1	0.0	0.0
OTHER ASIA AND OCEANIA:	5091.8	15508.5	23649.1	31942.3	0.0	0.0
HG KONG	4676.8	13271.5	22157.3	24646.0	0.0	0.0
INDNSIA	100.0	0.0	381.8	1058.5	0.0	0.0
KOR REP	315.0	2237.0	1110.0	6069.8	0.0	0.0
THAILND	0.0	0.0	0.0	168.0	0.0	0.0
WESTERN HEMISPHERE	1300.1	920.0	11505.9	4153.5	0.0	0.0
CANADA	0.0	232.0	0.0	0.0	0.0	0.0
COLOMB	0.0	0.0	0.0	294.0	0.0	0.0
DOM REP	0.0	0.0	43.0	0.0	0.0	0.0
MEXICO	1300.1	688.0	11425.6	3859.5	0.0	0.0
SALVADR	0.0	0.0	37.3	0.0	0.0	0.0
TOTAL KNOWN	12981.2	20193.8	55172.7	52795.9	0.0	0.0
TOTAL UNKNOWN	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN	12981.2	20193.8	55172.7	52795.9	0.0	0.0
EXPORTS FOR OWN ACCT	-	-	0.0	0.0	-	-
OPTIONAL ORIGIN	0.0	0.0	-	-	0.0	0.0

FRESH, CHILLED, OR FROZEN MUSCLE CUTS OF BEEF MARKETING YEAR 01/01 - 12/31
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 METRIC TONS AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	OUTSTANDING SALES:ACCUMULATED EXPORTS:				OUTSTANDING SALES	
	THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO	SECOND YR:	THIRD YR
EUROPEAN UNION - 25	*	*	0.5	0.4	0.0	0.0
DENMARK	0.0	0.0	*	*	0.0	0.0
FINLAND	0.0	0.0	*	0.1	0.0	0.0
FRANCE	0.0	0.0	*	*	0.0	0.0
GERMANY	0.0	0.0	0.3	0.1	0.0	0.0
GREECE	0.0	0.0	*	*	0.0	0.0
ITALY	*	*	0.1	*	0.0	0.0
MALTA	0.0	0.0	*	0.0	0.0	0.0
NETHLDS	*	*	*	*	0.0	0.0
POLAND	0.0	0.0	*	*	0.0	0.0
PORTUGL	0.0	0.0	*	0.0	0.0	0.0
SPAIN	0.0	0.0	*	0.1	0.0	0.0
SWEDEN	0.0	0.0	*	0.0	0.0	0.0
U KING	0.0	0.0	*	0.0	0.0	0.0
OTHER EUROPE	*	*	0.3	0.3	0.0	0.0
BULGAR	*	0.0	0.2	0.0	0.0	0.0
ICELAND	0.0	*	*	*	0.0	0.0
NORWAY	0.0	0.0	*	*	0.0	0.0
ROMANIA	0.0	0.0	0.0	0.1	0.0	0.0
SWITZLD	0.0	0.0	0.1	0.2	0.0	0.0
TURKEY	0.0	0.0	0.0	*	0.0	0.0
FORMER SOVIET UNION-12:	0.0	0.1	0.1	0.4	0.0	0.0
GEORGIA	0.0	0.0	0.1	0.0	0.0	0.0
MOLDOVA	0.0	0.0	*	0.0	0.0	0.0
RUSSIA	0.0	0.1	*	0.4	0.0	0.0

FRESH, CHILLED, OR FROZEN MUSCLE CUTS OF BEEF MARKETING YEAR 01/01 - 12/31
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 METRIC TONS AS OF AUGUST 26, 2004

DESTINATION	CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
	OUTSTANDING SALES		ACCUMULATED EXPORTS		OUTSTANDING SALES	
	THIS WEEK	YR AGO	THIS WEEK	YR AGO	SECOND YR	THIRD YR
JAPAN	0.1	42.3	0.0	174.1	0.0	0.0
TAIWAN	0.0	3.7	*	9.9	0.0	0.0
CHINA	0.2	2.0	0.0	3.8	0.0	0.0
OTHER ASIA AND OCEANIA:	1.7	30.7	1.2	162.5	0.0	0.0
AM SAMOA	0.1	0.1	*	0.1	0.0	0.0
AUSTRAL	0.0	0.0	*	0.0	0.0	0.0
BAHRAIN	0.0	0.0	*	*	0.0	0.0
BR P IS	0.0	0.0	*	0.0	0.0	0.0
FR P IS	*	*	*	*	0.0	0.0
GUAM	*	0.1	0.4	0.3	0.0	0.0
HG KONG	*	3.6	*	5.4	0.0	0.0
INDNSIA	0.1	0.1	0.1	1.3	0.0	0.0
KOR REP	1.4	26.6	*	153.7	0.0	0.0
KUWAIT	0.0	*	0.0	0.0	0.0	0.0
LEBANON	0.0	*	0.0	*	0.0	0.0
MALAYSA	*	*	*	0.2	0.0	0.0
N ZEAL	0.0	0.0	*	*	0.0	0.0
NMARIANA	0.0	*	0.2	0.1	0.0	0.0
OMAN	0.0	0.0	*	0.0	0.0	0.0
PALAU	0.0	*	*	*	0.0	0.0
PHIL	0.1	*	0.3	0.3	0.0	0.0
S ARAB	0.0	0.0	0.0	*	0.0	0.0
SINGAPR	*	*	*	0.4	0.0	0.0
THAILND	0.0	0.0	*	0.2	0.0	0.0
U AR EM	*	*	0.1	0.4	0.0	0.0
VIETNAM	0.0	*	0.0	*	0.0	0.0
AFRICA	0.0	*	0.1	0.5	0.0	0.0
C IVOIRE	0.0	0.0	0.1	0.1	0.0	0.0
EGYPT	0.0	*	*	0.4	0.0	0.0
REP SAF	0.0	0.0	0.0	*	0.0	0.0
WESTERN HEMISPHERE	14.8	18.5	75.8	178.2	*	0.0
BAHAMAS	*	*	0.1	*	0.0	0.0
BARBADO	0.0	0.0	*	*	0.0	0.0
BERMUDA	*	*	0.1	0.2	0.0	0.0
BRAZIL	0.0	0.0	*	*	0.0	0.0
C RICA	0.0	0.0	*	*	0.0	0.0
CANADA	0.5	1.5	4.8	32.0	0.0	0.0
CAYMAN	0.0	0.0	*	0.0	0.0	0.0
CHILE	0.0	0.0	*	*	0.0	0.0
COLOMB	0.0	0.0	0.0	*	0.0	0.0
DOM REP	0.0	0.0	*	0.1	0.0	0.0
GUATMAL	0.0	0.0	*	0.1	0.0	0.0
HAITI	0.0	0.0	0.0	*	0.0	0.0
HONDURA	0.0	*	0.0	*	0.0	0.0
JAMAICA	*	0.0	*	0.1	0.0	0.0
LW WW I	0.0	0.0	*	*	0.0	0.0
MEXICO	14.3	17.0	70.6	145.2	*	0.0
N ANTIL	*	0.0	*	*	0.0	0.0
PANAMA	0.0	0.0	0.0	0.2	0.0	0.0
PERU	0.0	*	0.0	0.2	0.0	0.0
TRINID	*	0.0	*	*	0.0	0.0
TURK IS	0.0	0.0	*	0.0	0.0	0.0
URUGUAY	0.0	0.0	*	*	0.0	0.0
VIRGIN I	0.0	0.0	*	0.0	0.0	0.0

FRESH, CHILLED, OR FROZEN MUSCLE CUTS OF BEEF MARKETING YEAR 01/01 - 12/31
 OUTSTANDING EXPORT SALES AND EXPORTS BY COUNTRY, REGION AND MARKETING YEAR
 1000 METRIC TONS AS OF AUGUST 26, 2004

		CURRENT MARKETING YEAR				NEXT MARKETING YEAR	
		OUTSTANDING SALES: ACCUMULATED EXPORTS: OUTSTANDING SALES					
DESTINATION		THIS WEEK:	YR AGO:	THIS WEEK:	YR AGO:	SECOND YR:	THIRD YR
TOTAL KNOWN	:	16.9	97.3	78.0	530.0	*	0.0
TOTAL UNKNOWN	:	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL KNOWN & UNKNOWN	:	16.9	97.3	78.0	530.0	*	0.0
EXPORTS FOR OWN ACCT	:	-	-	0.0	0.0	-	-
OPTIONAL ORIGIN	:	0.0	0.0	-	-	0.0	0.0

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Table 8. Comparison of Percentage of Oxidized Products in Oil Drain Samples, Samples from Microoxidation Tests, and Samples from Bulk Oxidation Tests.

% Removed by Clay Percolation ⁽¹⁾		
	A	B
Oil Drain Sample	10	14
30-Minute Microoxidation	17	16
10 cc Oxid. 8-Hour, 1 g Fe Powder	15	17
10 cc Oxid. 10-Hour, 1 g Fe Powder	21	24
10 cc Oxid. 8-Hour, No Fe Powder	—	6
10 cc Oxid. 8-Hour, LCS Sheet	—	11

(1) Oxidized liquid products are measured by the increased amount of lubricant absorbed on clay due to oxidation.

Table 9. Comparison of the Stability of the Raffinate and Extract Phases from the Oil Drain Sample and the Oxidized Sample.

Deposit values are determined from a 30-minute microoxidation test at 225°C.

Wt. % of Deposit			
	Original	Raffinate	Extract
B, Oil Drain Sample	3.0	6.3	11.0
B, 10 cc. Oxid. 8-Hour	4.2	6.4	8.6

Table 10. Conditions of Oil Drain Samples.

	Description	Fe Content (ppm)
A	New Used, 142 hr.	BDL ¹ 15
B	New Used, 10,800 mi.	BDL 30

¹ Below detection level.

Table 11. Solubility of Original, Oil Drain Samples, and Samples from Microoxidation Tests in Methanol.

Solubilities are expressed as weight percent.

Vol % Soluble in Methanol		
	B	Q
New	34	32
Oil Drain Sample	49	52
30-Minute Microoxidation	53	55

Four-Ball Wear Test
75°C, 40 Kg

21

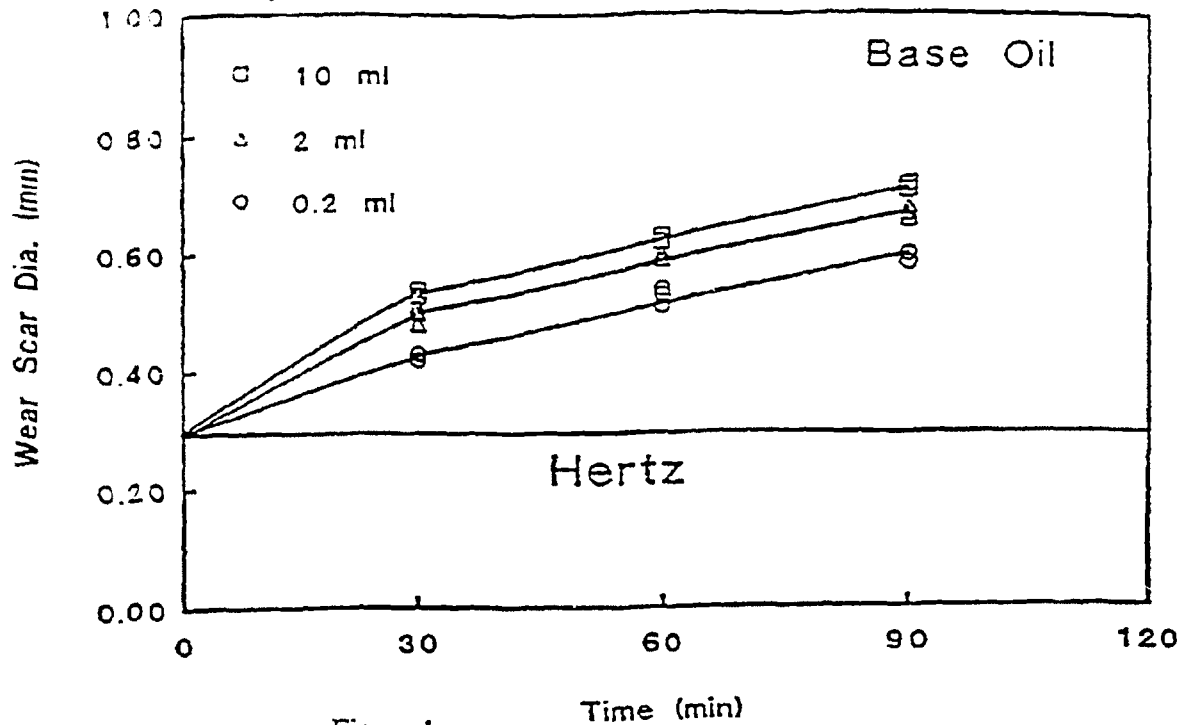


Figure 1

Four-Ball Wear Test
75°C, 40 Kg

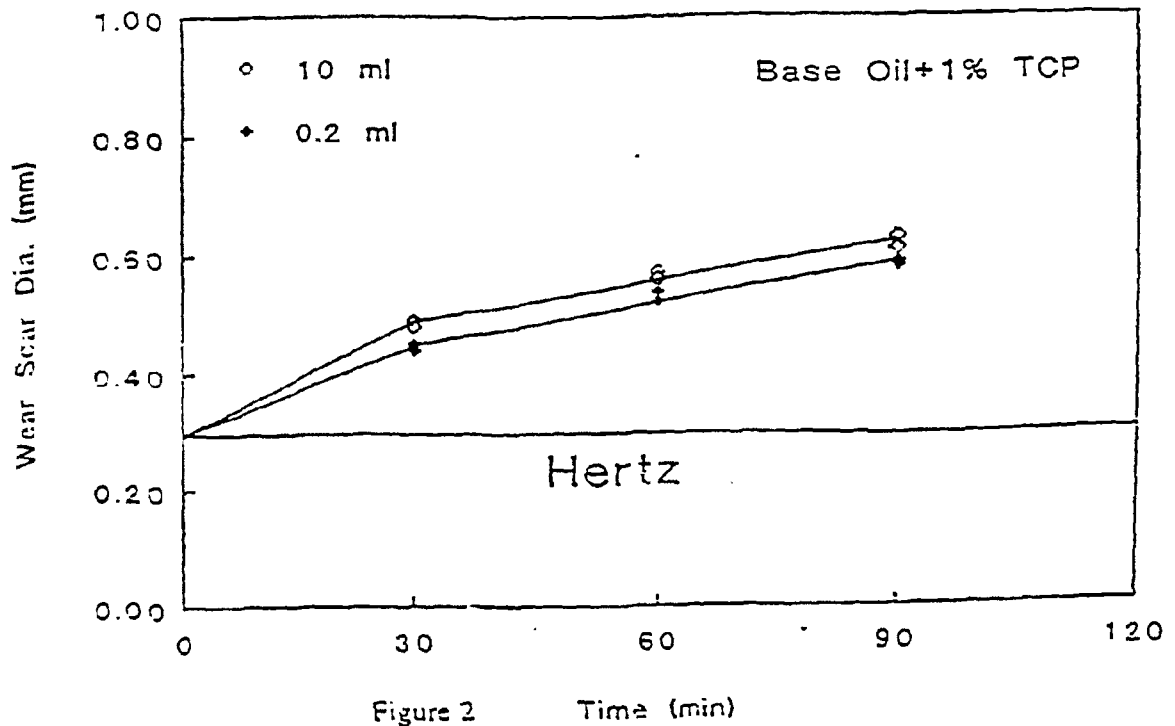
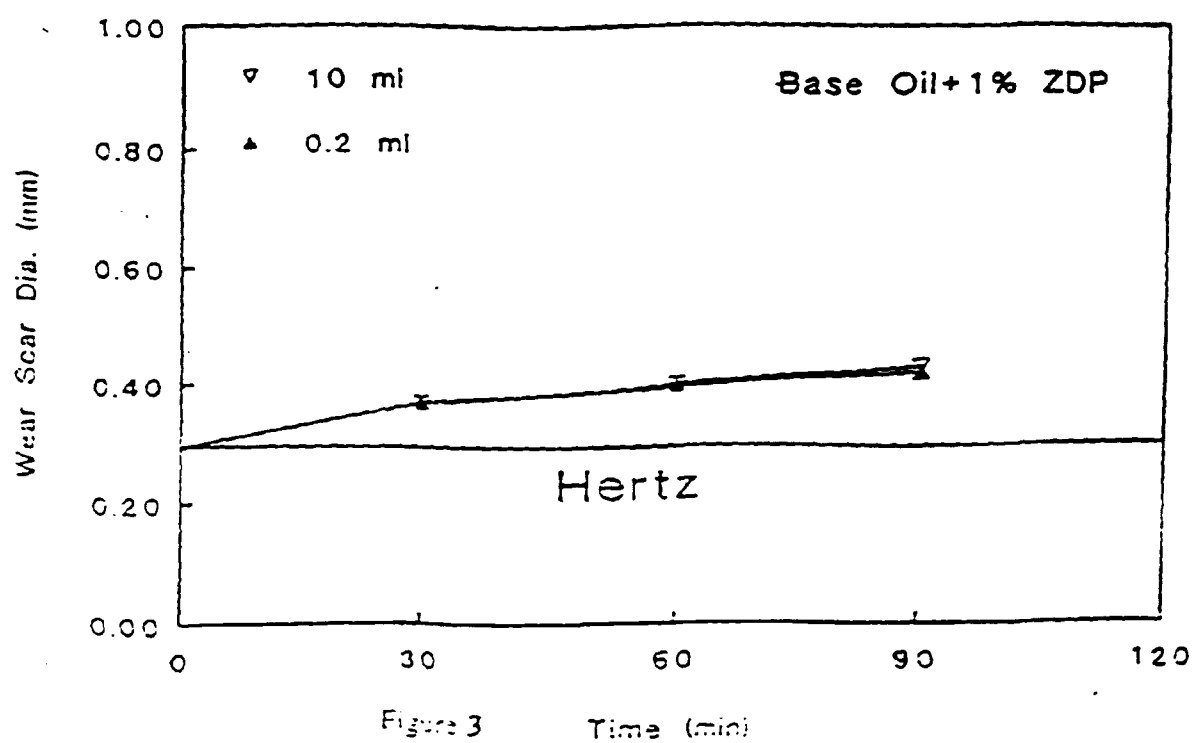


Figure 2

Four-Ball Wear Test
75°C, 40 Kg



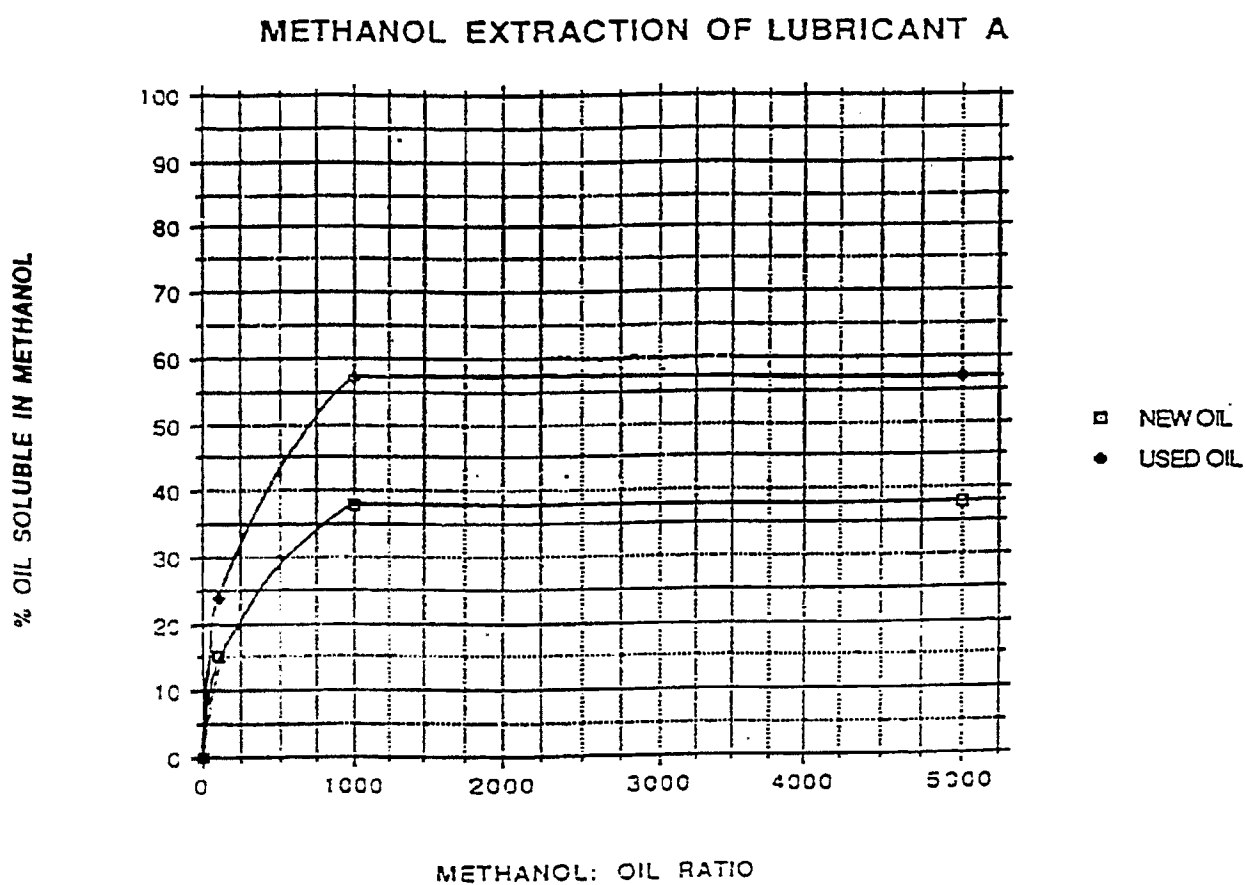


Figure 4. Solubility of Lubricant A in methanol

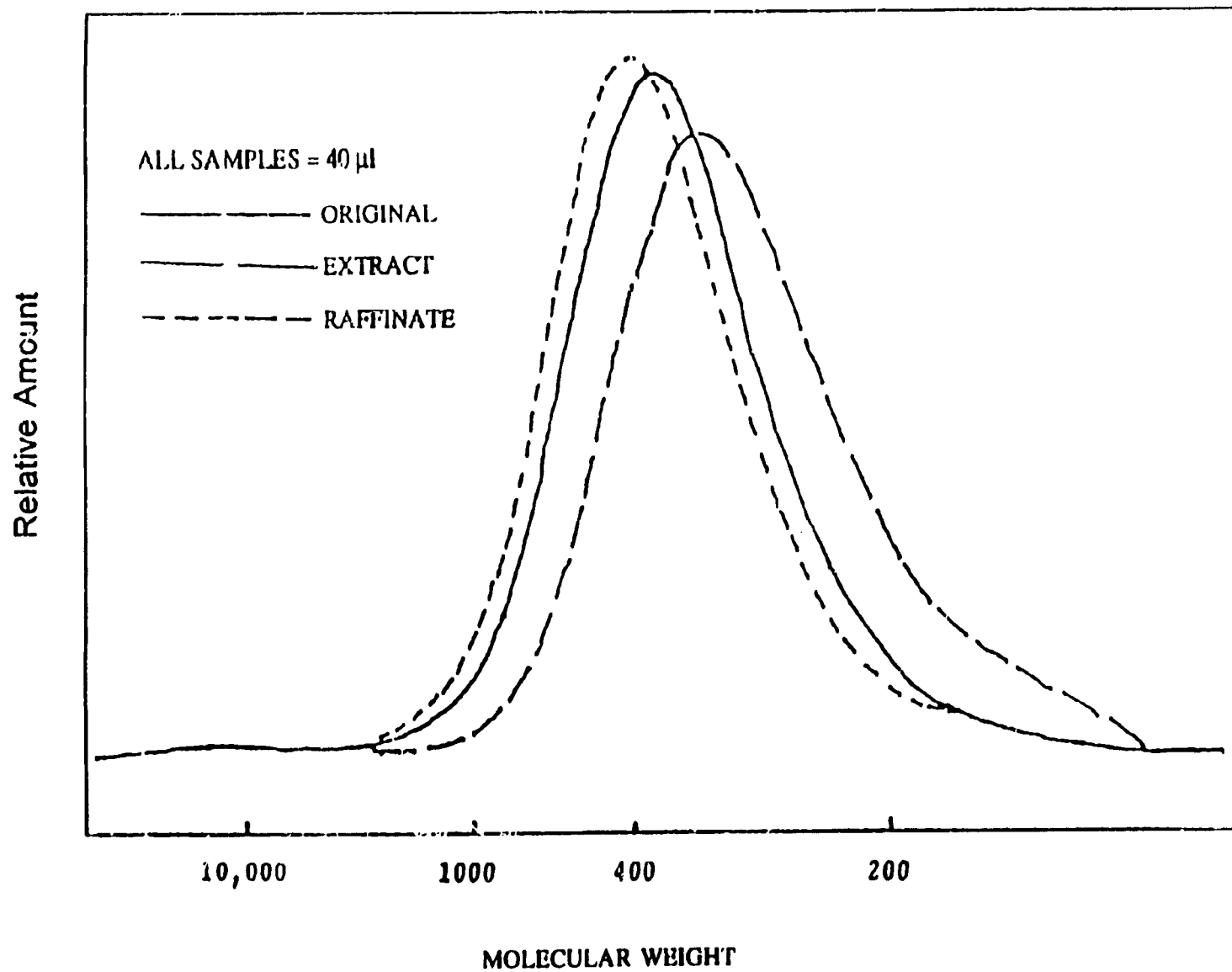


Figure 5. GPC curve for lubricant A extracted at 500:1 fuel to oil.

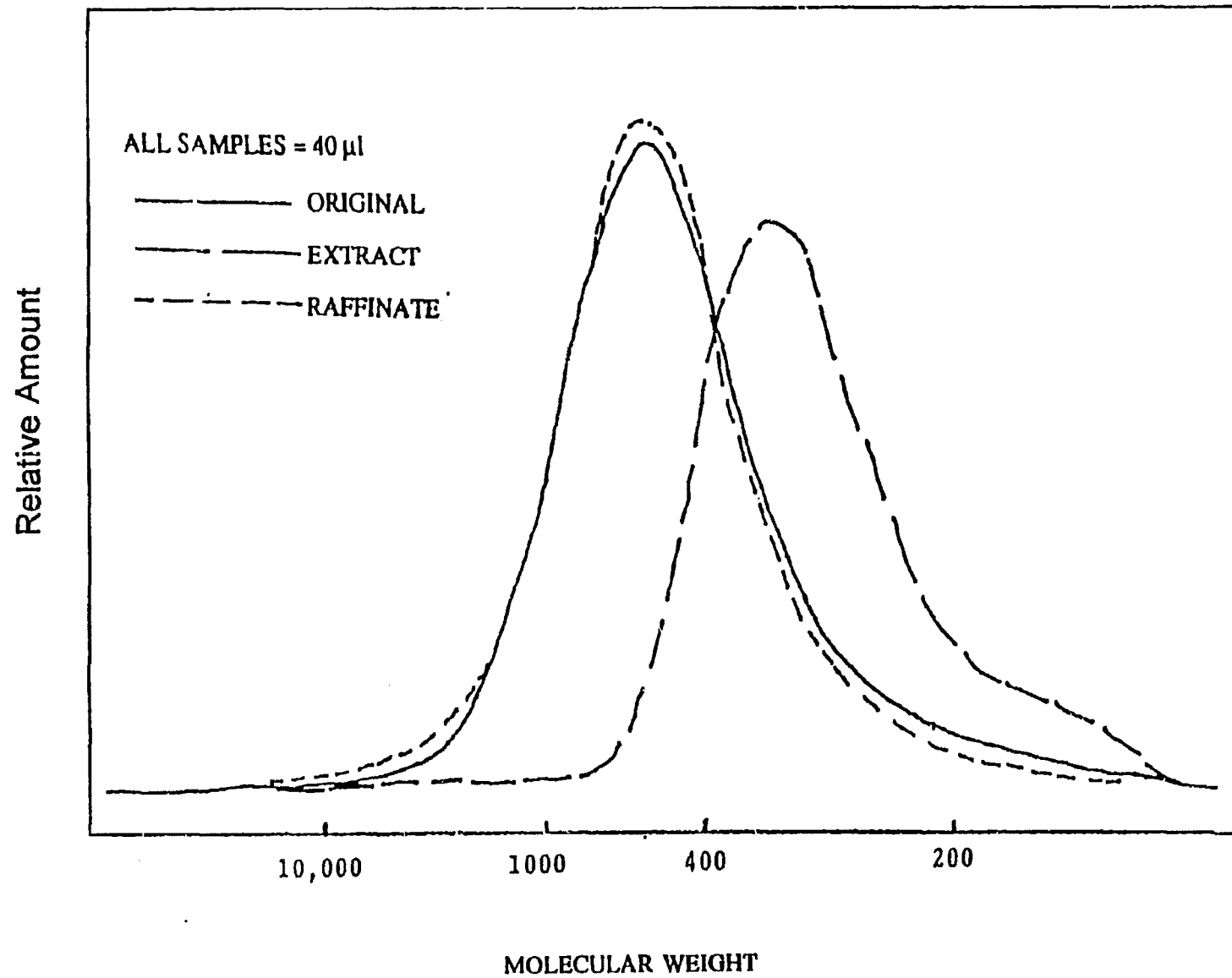


Figure 6. GPC curve for lubricant B extracted at 500:1 fuel to oil.

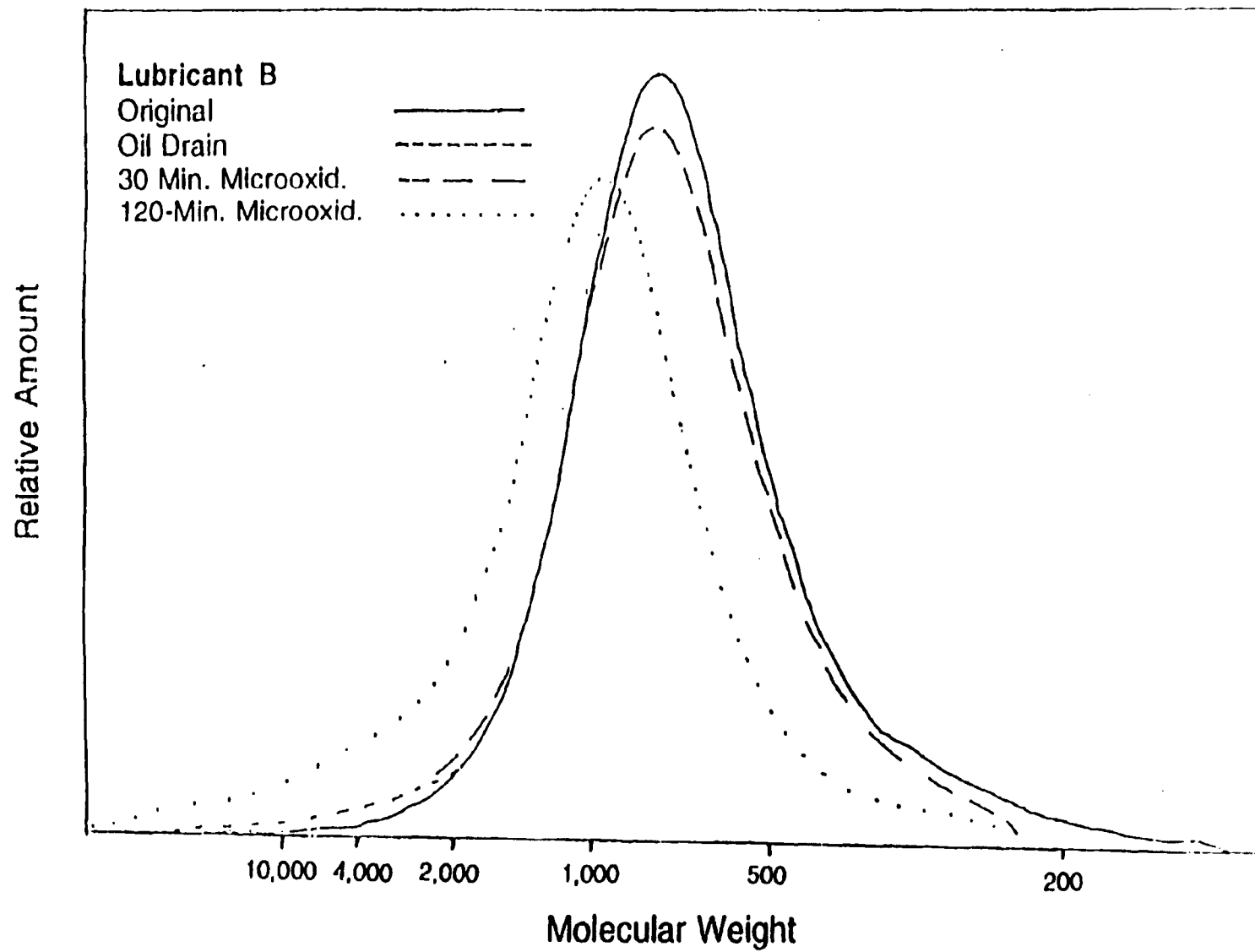


Figure 7. GPC analysis of Lubricant B and its oxidized and oil drain samples.

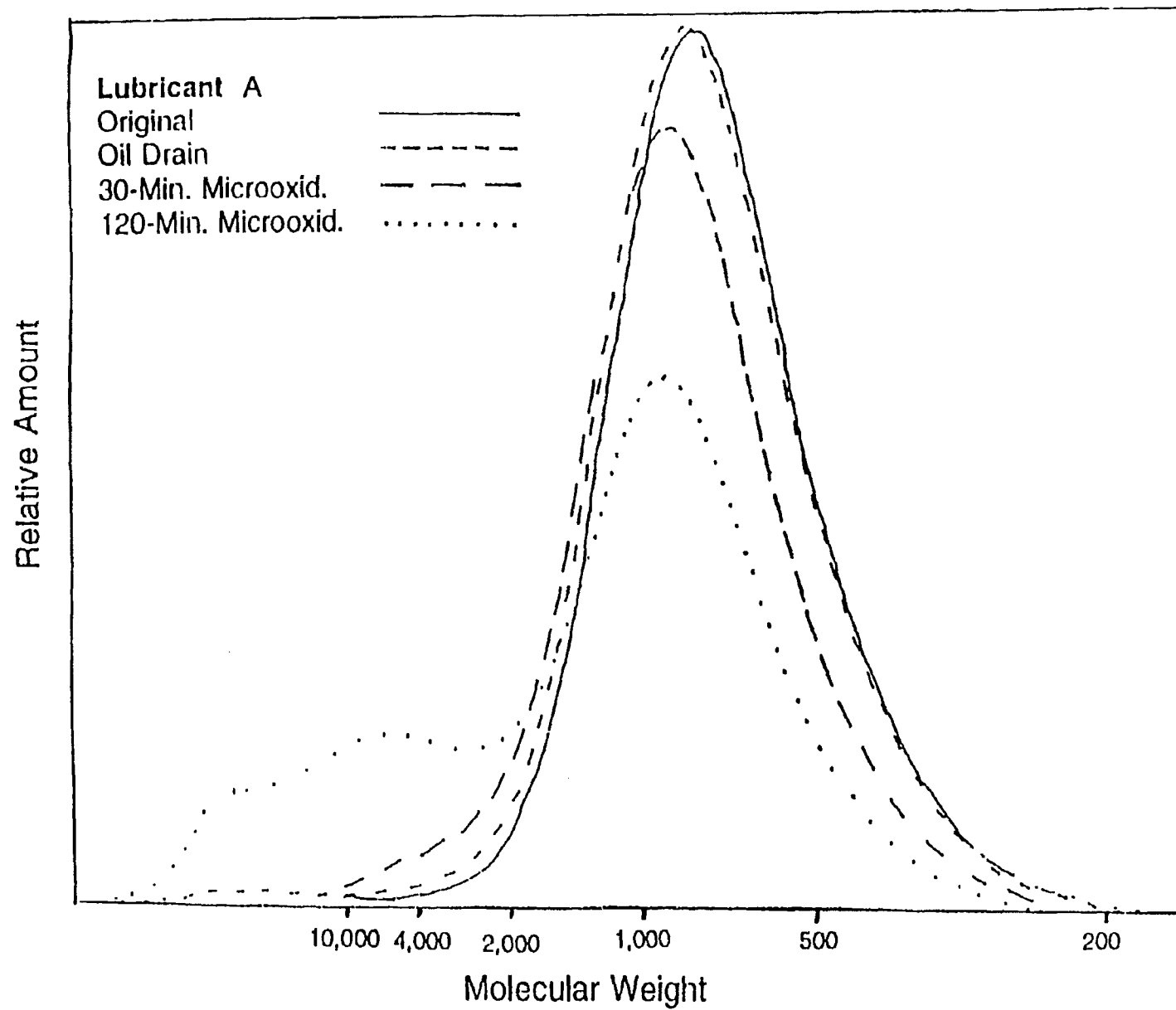


Figure 8. GPC analysis of Lubricant B and its oxidized and oil drain samples.

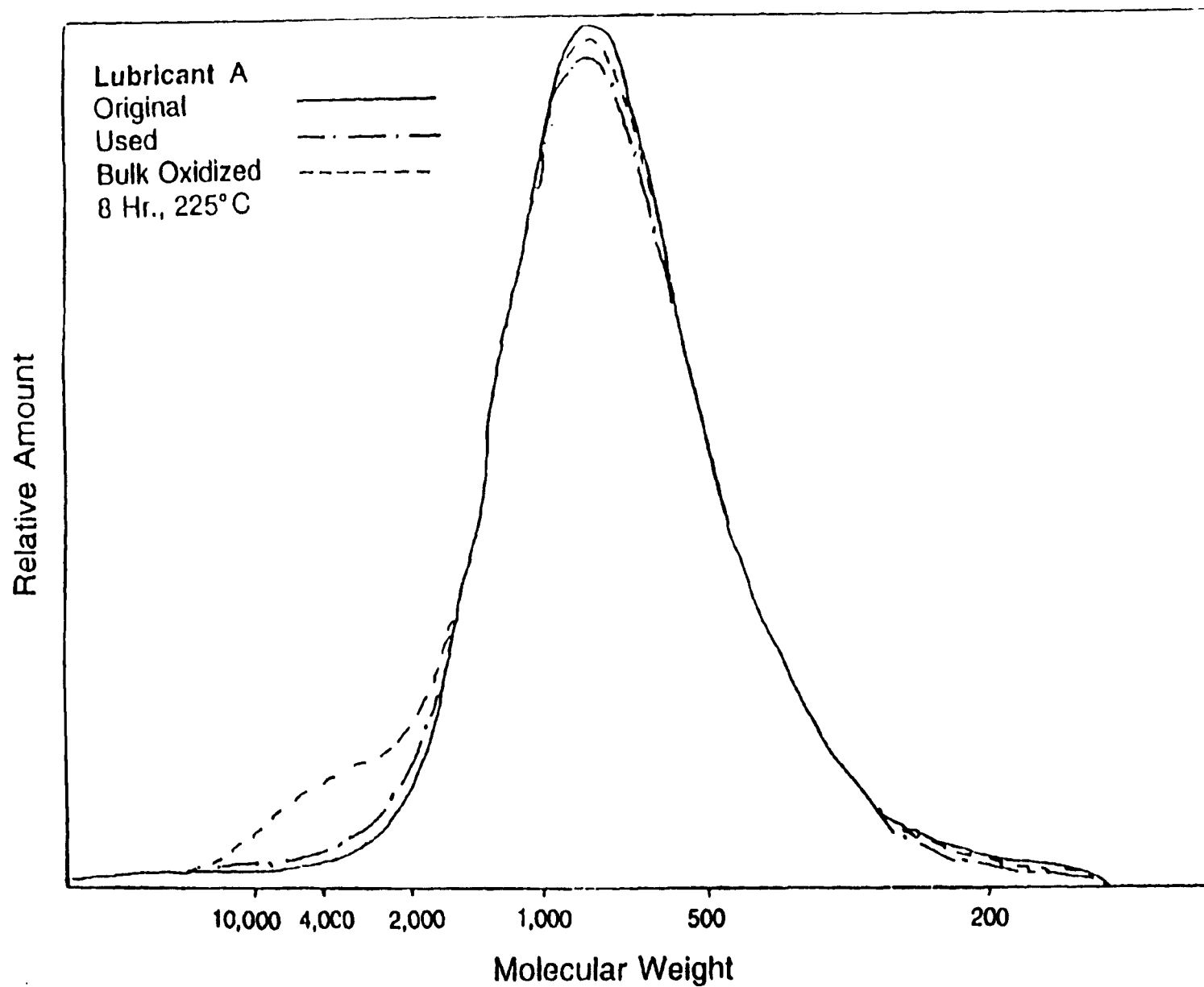


Figure 9. GPC analysis of Lubricant A and its oxidized and oil drain samples.

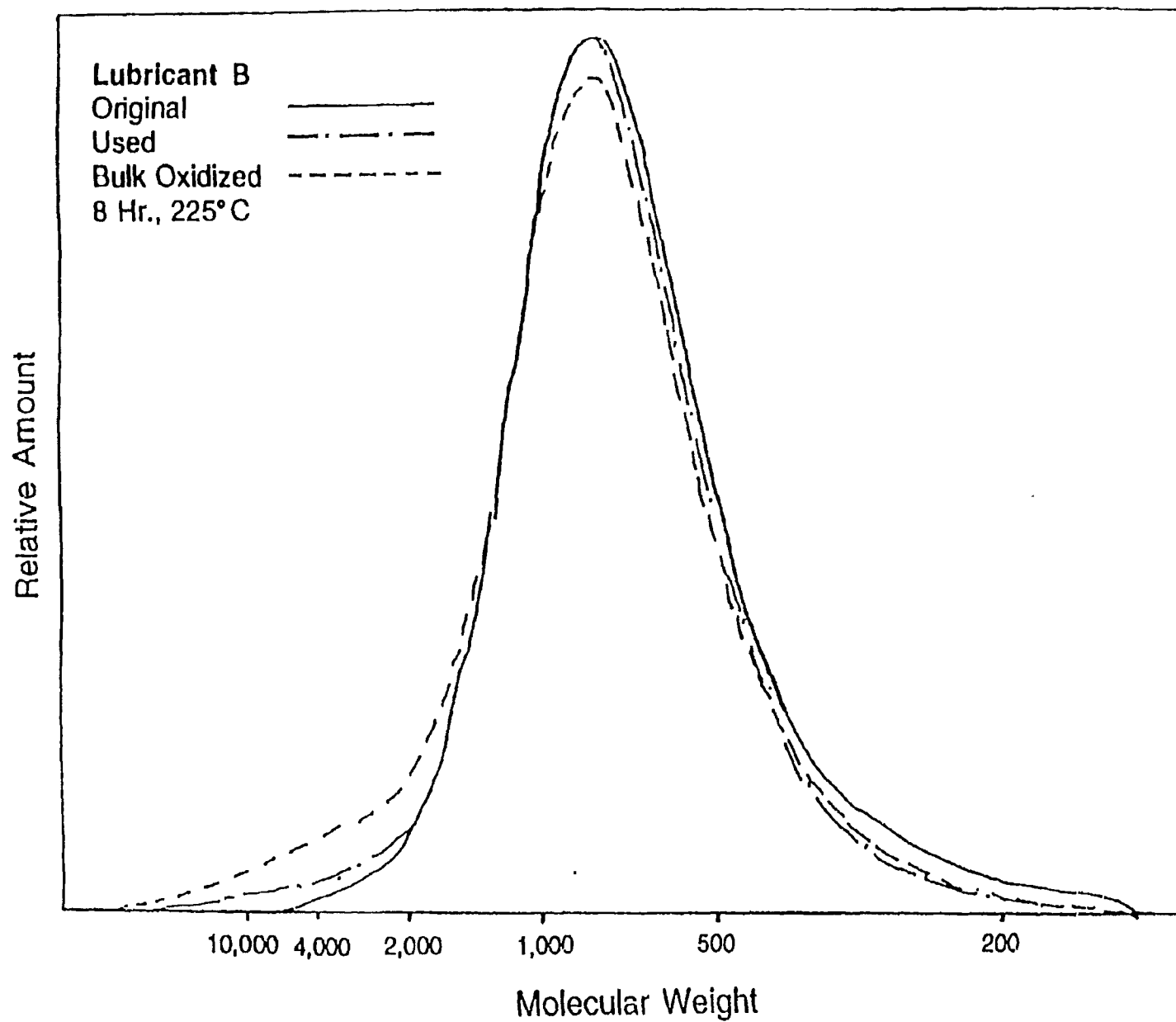


Figure 10. GPC curve for Lubricant A (original/used/bulk oxidized).

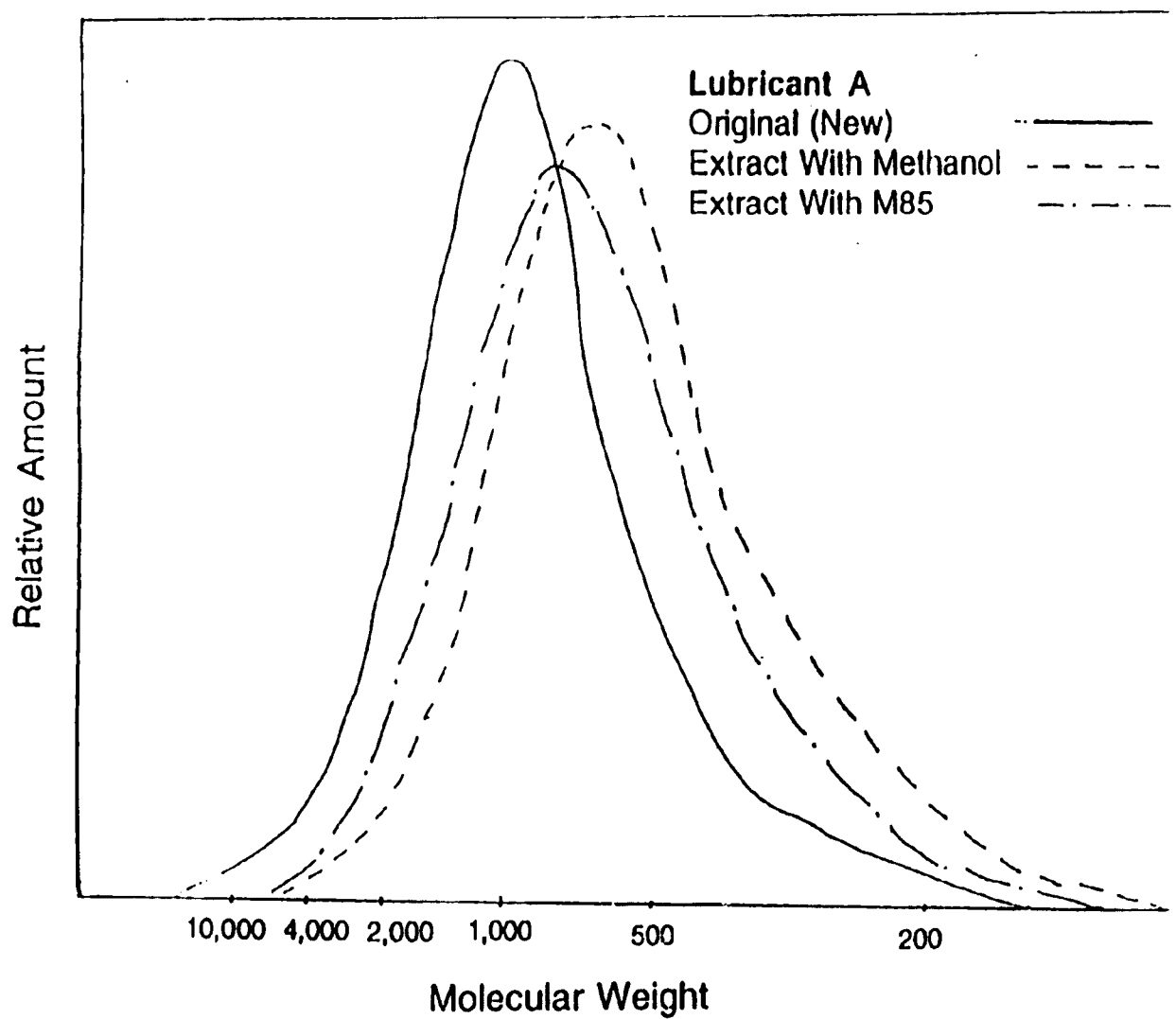


Figure 11. GPC curve for Lubricant B (original/extract with methanol and M85).

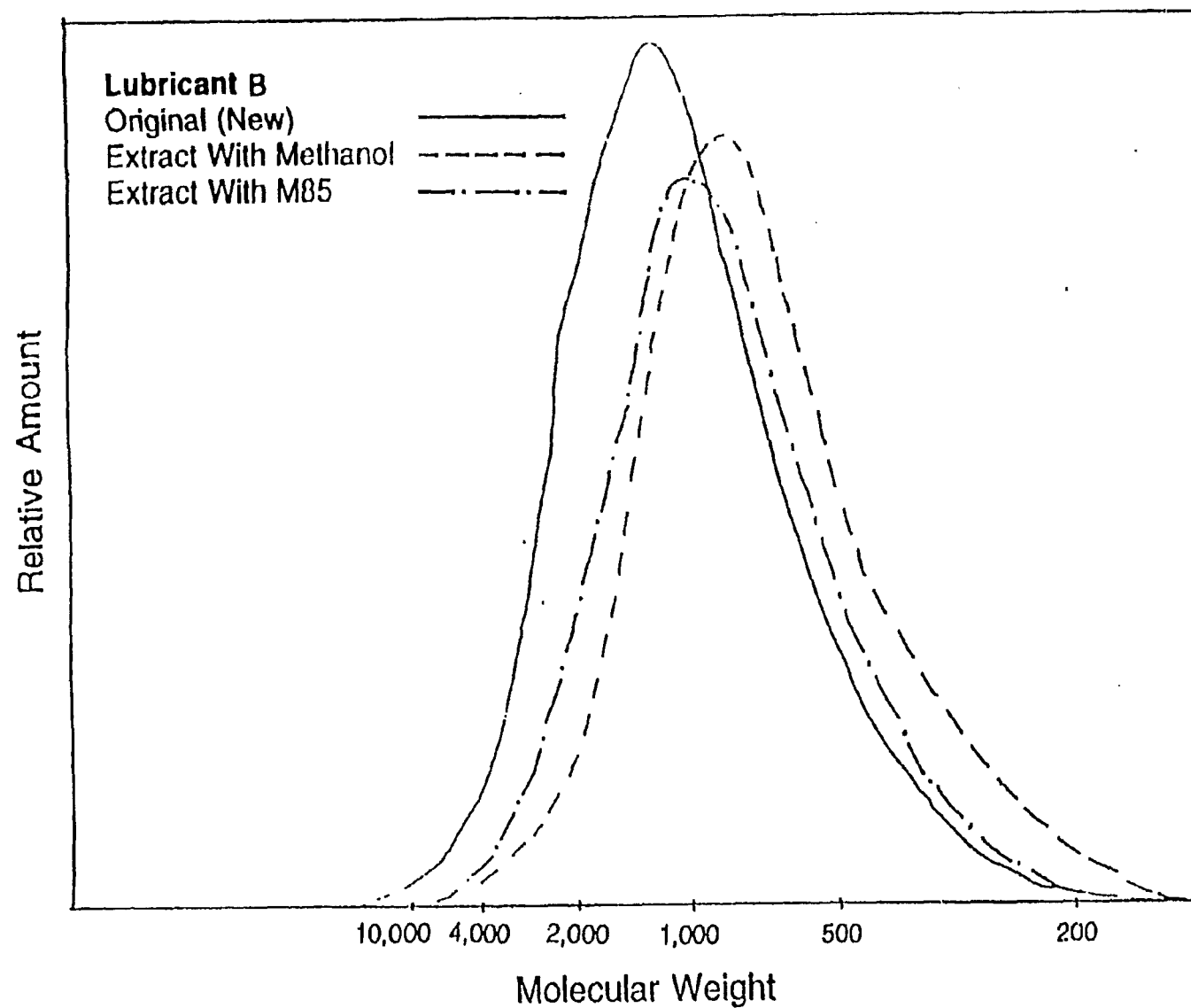


Figure 12. GPC curve for Lubricant A (original/extract with methanol and M85).

Appendix A

Timetable for Proposed Work

Timetable for Proposed Work

The proposed work can be broken down into the following tasks, and the timetable for these tasks is presented in the following pert chart. All of the tasks for the first 18 months of the proposed study are clearly defined in this pert chart. Since many of the activities in the second half of this proposed three-year study are strongly dependent upon progress and results in the first half of the project, many of the details of the tasks for the latter phases of the program are not clearly delineated on the pert chart prepared at this time. As this pert chart indicates, the initial emphasis of this project will be placed on the utilization of methanol as an alternative fuel since fleet test data are available for methanol to guide this study.

- IA. Development of extraction protocol to break lubricants into extract and raffinate phases after contact with methanol. Procedures will be developed for the two cases: (a) the precipitation of a second phase in crankcase lubricants after contact with a small amount of methanol in order to simulate the conditions existing in the sump of the lubrication system in which a small amount of methanol fuel enters the lubrication system each time the engine is started. (b) The extraction of methanol-soluble components of the lubricant by a large quantity of methanol to simulate the conditions that exist in the area of the fuel injector.
- IB. Analysis of the composition of the extract and raffinate phases resulting from the developed extraction protocol. Of particular interest will be the distribution of components of the additive package between the different extract and raffinate phases.
- IC. Utilize extraction protocol to evaluate the relative compatibilities of various components of lubricants and lubricant additive packages.
- ID. Modification of extraction protocol to accommodate other alternative fuels, starting with ethanol and a methanol fuel blend consisting of 85% methanol and 15% hydrocarbons.
- IIA. Develop technique to evaluate the oxidative stability of the various fractions of the lubricant which are distributed by the extraction protocol developed in Task IA. This test procedure will be based

on utilization of Penn State's microoxidation test, and the main emphasis will be placed on determining the appropriate test conditions such as temperature and time which give the greatest correlation between this test and fleet test results. The work will be initiated on the differences in deposit formation in the early stages of lubricant oxidation which leads to deposits and fuel injector plugging.

- IIB. Utilization of oxidation stability to compare the microoxidation stability of extracted conventional lubricants with extracted lubricants which have been developed for use with methanol fuels.
- IIC. Utilization of the microoxidation test procedure to determine the relationship between the distribution of different components of additives and lubricant on the oxidation process.
- IID. Use microoxidation test procedures to evaluate other alternative fuels starting with ethanol and methanol-hydrocarbon blends.
- IIIA. Miniaturize lubricant volume in the four-ball wear tester to handle the small quantities (approximately 1 ml) of the phases formed in the extraction protocol of Task IA. The volumes of the extract and raffinate fractions (solvent free) of typical lubricants approach an asymptotic value at 1000:1 methanol-to-oil ratio. To obtain at least 1 ml of lubricant in the fraction containing the least lubricant, one gallon of methanol is required. For the four-ball wear tests using conventional lubricant volumes, extractions with as much as 50 gallons of methanol would be required.
- IIIB. Use miniaturized four-ball wear tester to determine best conditions for evaluating the steady-state wear characteristics of the extract and raffinate lubricant fractions produced by the extraction protocol.
- IIIC. Determine operating conditions for the miniaturized four-ball wear tester to determine the scuffing load of the lubricant fraction.

- IIID. Use developed steady-state wear tests and scuffing tests to evaluate conventional commercial lubricants as compared to those specifically developed for use with methanol fuel.
- IIIE. Use wear test procedure to evaluate other alternative fuels starting with ethanol and methanol-hydrocarbon blends.
- IIIF. Utilize scuffing test to evaluate other alternative fuels starting with ethanol and methanol-hydrocarbon blends.
- IV. Evaluate fleet test data as it becomes available and use these results in developing and optimizing the test protocols for the evaluation of lubricant oxidation and wear and scuffing characteristics. This is an ongoing activity in which fleet tests being conducted by the various industries are incorporated into this study to optimize the test procedures and overall data base.
- V. Utilize the developed test procedures and results on available lubricants to develop new lubricant formulations.

PERT CHART

Task Number	Year One	Year Two	Year Three
IA	_____		
IB	_____		
IC	_____		
ID		_____	
IIA	_____		
IIB	_____		
IIC	_____		
IID		_____	
IIIA	_____		
IIIB	_____		
IIIC	_____		
IIID	_____		
IIIE		_____	_____
IIIF		_____	_____
IV			
V		_____	_____

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