

U.S. DEPARTMENT OF AGRICULTURE  
 AGRICULTURAL MARKETING SERVICE  
 FEDERAL GRAIN INSPECTION SERVICE  
**SAMPLER CONDITION REPORT**

NAME OF ELEVATOR, CITY, AND STATE	DATE EXAMINED	FIELD OFFICE
NAME OF OFFICIAL AGENCY		

**\*INSTRUCTIONS TO EXAMINER:** For a six month examination fill out the front of this form. For a complete grain test, including initial sampler test, fill out both sides of this form and send the original to the FGIS Field Office. Explain "FAIL" items in detail. If the sampler is not being used, indicate that fact under "Remarks" and prepare a report before the sampler is put into use.

PRIMARY SAMPLER		SECONDARY SAMPLERS	
BRAND/MODEL	SERIAL NO.	BRAND/MODEL	SERIAL NO.
GRAIN FLOW RATE (Past Sampler)	SAMPLING INTERVAL (Cycle Time)	BRAND/MODEL	SERIAL NO.

SAMPLER CODE:     D - Diverter     P - Probe     0 - All Grains     1 - Small Grains     2 - Coarse Grains-not corn     3 - IN Inspections  
 4 - OUT Inspections     5 - Cargolots     6 - Bargelots     7 - Hopper Carlots     8 - Carlots     9 - Trucklots

SECTION 1 -- ALL SAMPLERS	SECTION 2 -- D/T SAMPLERS
ITEMS EXAMINED	ITEMS EXAMINED
P ASS / FAIL	PASS / FAIL
Lighting around sampler <input type="checkbox"/> P <input type="checkbox"/> F	Pelican speed approx. 0.5 m/s <input type="checkbox"/> P <input type="checkbox"/> F
Safe access to areas <input type="checkbox"/> P <input type="checkbox"/> F	Pelican dust seals (interior) <input type="checkbox"/> P <input type="checkbox"/> F
Safe access to inside of devices <input type="checkbox"/> P <input type="checkbox"/> F	Pelican go-no-go gauge <input type="checkbox"/> P <input type="checkbox"/> F
Lockouts (safety switches) <input type="checkbox"/> P <input type="checkbox"/> F	Pelican cuts entire grain stream <input type="checkbox"/> P <input type="checkbox"/> F
Cleanliness of area <input type="checkbox"/> P <input type="checkbox"/> F	Condition of excess sample return leg or belt <input type="checkbox"/> P <input type="checkbox"/> F
Cleanliness of device <input type="checkbox"/> P <input type="checkbox"/> F	
Lubrication (if required) <input type="checkbox"/> P <input type="checkbox"/> F	<b>SECTION 3 -- TRUCK PROBES</b>
Panel board indicator lights <input type="checkbox"/> P <input type="checkbox"/> F	ITEMS EXAMINED
Air or hydraulic pressure <input type="checkbox"/> P <input type="checkbox"/> F	Tip not bent/damaged <input type="checkbox"/> P <input type="checkbox"/> F
Delivery tube secure <input type="checkbox"/> P <input type="checkbox"/> F	Tip vacuum check with paper <input type="checkbox"/> P <input type="checkbox"/> F
Delivery tube air inlet secure <input type="checkbox"/> P <input type="checkbox"/> F	Hydraulic oil level OK <input type="checkbox"/> P <input type="checkbox"/> F
Collection box secure <input type="checkbox"/> P <input type="checkbox"/> F	Vacuum adjustments sealed <input type="checkbox"/> P <input type="checkbox"/> F
Collection box screen clean <input type="checkbox"/> P <input type="checkbox"/> F	Sample size <input type="checkbox"/> P <input type="checkbox"/> F
Sampler not modified or repaired <input type="checkbox"/> P <input type="checkbox"/> F	Collection box seal <input type="checkbox"/> P <input type="checkbox"/> F
Seals/padlocks in place <input type="checkbox"/> P <input type="checkbox"/> F	Delivery tube condition <input type="checkbox"/> P <input type="checkbox"/> F
Inspected By: (LI or ACG)	Vacuum pressure if known:
Reviewed By: (ACG)	



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**U.S. DEPARTMENT OF AGRICULTURE  
Agricultural Marketing Service  
FEDERAL GRAIN INSPECTION SERVICE**

**SAMPLER CONDITION REPORT**

<b>1</b>	DATE EXAMINED <b>2</b>	FIELD OFFICE <b>3</b>
	NAME OF OFFICIAL AGENCY <b>4</b>	

**\*INSTRUCTIONS TO EXAMINER:** For a six month examination fill out the front of this form. For a complete grain test, including initial sampling, fill out both sides of this form and send the original to the FGIS Field Office. Explain "FAIL" items in detail. If the sampler is not being used, indicate this under "Remarks" and prepare a report before the sampler is put into use.

PRIMARY SAMPLER		SECONDARY SAMPLERS	
BRAND/MODEL <b>5</b>	SERIAL NO <b>6</b>	BRAND/MODEL <b>7</b>	SERIAL NO
GRAIN FLOW RATE (Past Sampler) <b>9</b>	SAMPLING INTERVAL (Cycle Time) <b>10</b>	BRAND/MODEL	SERIAL NO

**SAMPLER CODE:**  
**11**     D - Diverter     P - Probe     0 - All Grains     1 - Small Grains     2 - Coarse Grains  
 3 - IN Inspections     4 - OUT Inspections     5 - Cargolots     6 - Bargelots     7 - Hopper Carlots     8 - Carlots

SECTION 1 -- ALL SAMPLERS		SECTION 2 -- D/T SAMPLERS	
ITEMS EXAMINED	PASS / FAIL	ITEMS EXAMINED	PASS / FAIL
Lighting around sampler	<input type="checkbox"/> <b>12</b> <input type="checkbox"/>	Pelican speed approx. 0.5 m/s	<input type="checkbox"/>
Safe access to areas	<input type="checkbox"/> <b>13</b> <input type="checkbox"/>	Pelican dust seals (interior)	<input type="checkbox"/>
Safe access to inside of devices	<input type="checkbox"/> <b>14</b> <input type="checkbox"/>	Pelican go-no-go gauge	<input type="checkbox"/>
Lockouts (safety switches)	<input type="checkbox"/> <b>15</b> <input type="checkbox"/>	Pelican cuts entire grain stream	<input type="checkbox"/>
Cleanliness of area	<input type="checkbox"/> <b>16</b> <input type="checkbox"/>	Condition of excess sample return leg or belt	<input type="checkbox"/>
Cleanliness of device	<input type="checkbox"/> <b>17</b> <input type="checkbox"/>	Timer set correctly	<input type="checkbox"/>
Lubrication (if required)	<input type="checkbox"/> <b>18</b> <input type="checkbox"/>	SECTION 3 -- TRUCK PROBES	
Panel board indicator lights	<input type="checkbox"/> <b>19</b> <input type="checkbox"/>	Tip not bent/damaged	<input type="checkbox"/>
Air or hydraulic pressure	<input type="checkbox"/> <b>20</b> <input type="checkbox"/>	Tip vacuum check with paper	<input type="checkbox"/>
Delivery tube secure	<input type="checkbox"/> <b>21</b> <input type="checkbox"/>	Hydraulic oil level OK	<input type="checkbox"/>
Delivery tube air inlet secure	<input type="checkbox"/> <b>22</b> <input type="checkbox"/>	Vacuum adjustments sealed	<input type="checkbox"/>
Collection box secure	<input type="checkbox"/> <b>23</b> <input type="checkbox"/>	Sample size	<input type="checkbox"/>

Collection box screen clean	<input type="checkbox"/> <b>24</b> <input type="checkbox"/>	Collection box seal	<input type="checkbox"/>
Sampler not modified or repaired	<input type="checkbox"/> <b>25</b> <input type="checkbox"/>	Delivery tube condition	<input type="checkbox"/>
Seals/padlocks in place	<input type="checkbox"/> <b>26</b> <input type="checkbox"/>	Vacuum pressure if known:	
Inspected By: (LI or ACG)	<b>41</b>	Reviewed By: (ACG)	<b>42</b>

## INSTRUCTIONS FOR COMPLETING FORM FGIS-936, "SAMPLER CONDITION REPORT," (FRONT)

1. Name of the elevator, city, and state.
2. Date examination was done.
3. Name of FGIS field office in charge of the circuit.
4. Name of the official agency that does original inspections at the facility.
5. Brand name and type of primary (diverter-type sampler) or probe-type sampler being examined and tested. Are they approved by FGIS?
6. Serial number of primary diverter-type or probe-type sampler.
7. Brand name of secondary sampler.
8. Serial number of secondary sampler.
9. Calculate the maximum flow of spout or belt on which the sampler is installed.
10. Sampling Interval-Read from the timer.
11. Type of carriers or lots the system will sample.

### Section 1 - All Samplers

12. Lighting should be approximately 30 footcandles (general task lighting).
13. Safe access includes approved stairs, fixed ladders, platforms, and railings.
14. Safe access to the inside of the housing or hood without endangering the examiner.
15. Lockout switches must be present and meet requirements.
16. Cleanliness of the area-overhead, floor, stairs.
17. Cleanliness/condition of primary-check for plugs, leaks, dust, sprouted grain, broken hasps/hinges, wiring.
18. Lubrication-Grease or oil leaks.
19. Panel lights-Use radio or phone (if needed) to ensure that the power and traverse lights work properly. Have any shorts in the wiring?
20. Air or hydraulic pressure-Is there enough? Record the gage pressure, if available.
21. Delivery tube must be secure from loss or introduction of material.
22. Delivery tube-Pneumatic systems must have a guard over the air supply inlet.
23. Collection box-If not continuously attended, must be secure at inlet and outlet.
24. Collection boxes that have a screen must be maintained in a clean condition.
25. Sampler not Modified-For this check, good installation records are essential.
26. Seals-Were the security seals on inspection doors found intact? Was the delivery tube found secure? Section 2 - D
27. Pelican speed must be uniform with no slow spots. Speed can be estimated.
28. Pelican dust seals-Must be present, not torn, and must seal-off the pelican, no air gap.
29. Pelican Go-no-go Gauge-Use it to ensure the opening is between 3/4 and 7/8 inch wide along its entire length. 3 T
30. Pelican cuts stream-If practical, observe a cut to see that the pelican is sampling the entire stream, and that it does not pick up excess grain.
31. Condition of excess sample return-Check if it is leaking, infested, or backing up.
32. Timer-Does the timer setting match the documented setting (required). Use a stopwatch or read the timer; do not rely on old records. Section 3 - Truck Probes
33. Probe tip must be in good condition.
34. For core-type probes, a small piece of paper is placed over the tip to check the air supply/vacuum balance. The paper should not blow off or be sucked into the tip.
35. Check levels if possible.
36. After adjustment, air supply/vacuum balance should not be changed. If it is possible to seal them or record settings, provide assurance that they remain correctly adjusted.
37. Is the sample size adequate? Has it changed?
38. If the collection box has a gasket, is it in good condition with no air leaks.
39. Is the delivery tube in good condition,
40. If a gage reading is available, it can indicate leaks or misadjustment. Name of Inspector
41. Show the name of the inspector who completed the examination. If any item is unsatisfactory, the sampler is not acceptable. Do not use Form FGIS-936 as a record. Even if the facility brings the sampler into compliance immediately, complete the form. An ACG should review some forms for correctness when possible. Any questionable information or remarks must be verifiably accurate.



**GRAIN TEST DATA**

SAMPLING METHOD USED FOR STANDARD: <input type="checkbox"/> PELICAN <input type="checkbox"/> CUP <input type="checkbox"/> OTHER					<i>for Mechanical Truck Probes only</i>					
COMMODITY: <input type="checkbox"/> SMALL GRAIN      ] COARSE GRAIN <input type="checkbox"/> OTHER					Date	Sample No.	Type	DKG	BCFM	
REMARKS:						6	Test Unit			
							Standard			
							HP			
						7	Test Unit			
							Standard			
							HP			
						8	Test Unit			
							Standard			
							HP			
						9	Test Unit			
							Standard			
							HP			
	10	Test Unit								
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	11	Test Unit								
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	18	Test Unit								
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		HP								
	19	Test Unit								
		Standard								
		HP								
	20	Test Unit								
		Standard								
		HP								
Test Unit MDS*					Test Unit MDS*					
Tolerance					Tolerance					
Result - One test lot					<input type="checkbox"/> IN	<input type="checkbox"/> IN	<input type="checkbox"/> IN	Hand Probe MDS*		
					<input type="checkbox"/> OUT	<input type="checkbox"/> OUT	<input type="checkbox"/> OUT	Regression or T-test		
					<input type="checkbox"/> IN	<input type="checkbox"/> IN	<input type="checkbox"/> IN			
					<input type="checkbox"/> OUT	<input type="checkbox"/> OUT	<input type="checkbox"/> OUT			

\*Mean Deviation from Standard

### GRAIN TEST DATA

SAMPLING METHOD USED FOR STANDARD: <b>1</b> <input type="checkbox"/> PELICAN <input type="checkbox"/> CUP <input type="checkbox"/> OTHER _____					for Mechanical Truck Probes only <b>10</b>					
COMMODITY: <b>2</b> <input type="checkbox"/> SMALL GRAIN <input type="checkbox"/> COARSE GRAIN <input type="checkbox"/> OTHER _____					Date	Sample No.	Type	DKG	BCFM	
REMARKS: <b>3</b>						6	Test Unit			
							Standard			
							HP			
						7	Test Unit			
							Standard			
							HP			
						8	Test Unit			
							Standard			
							HP			
						9	Test Unit			
							Standard			
							HP			
						10	Test Unit			
							Standard			
							HP			
						11	Test Unit			
							Standard			
							HP			
						12	Test Unit			
							Standard			
	HP									
	13	Test Unit								
		Standard								
		HP								
<b>4</b>	1	Test Unit		<b>5</b>						
		Standard								
Difference <b>6</b>										
Tolerance <b>7</b>										
Result - One test lot <b>8</b>					15	Test Unit	<input type="checkbox"/> IN <input type="checkbox"/> IN <input type="checkbox"/> IN			
							HP	<input type="checkbox"/> OUT <input type="checkbox"/> OUT <input type="checkbox"/> OUT		
	2	Test Unit		<b>9</b>	16	Test Unit				
		Standard								
	3	Test Unit			17	Test Unit				
		Standard								
	4	Test Unit			18	Test Unit				
		Standard								
	5	Test Unit			19	Test Unit				
		Standard								
	20	Test Unit			20	Test Unit				
		Standard								
Test Unit MDS*										
Tolerance					Test Unit MDS*					
Result - Five test lots					Hand Probe MDS*					
*Mean Deviation from Standard					Regression or T-test <b>11</b>					
					<input type="checkbox"/> IN <input type="checkbox"/> IN <input type="checkbox"/> IN					
					<input type="checkbox"/> OUT <input type="checkbox"/> OUT <input type="checkbox"/> OUT					

### **INSTRUCTIONS FOR COMPLETING FORM FGIS-936, "SAMPLER CONDITION REPORT," (REVERSE)**

Use the reverse of Form FGIS-936 for testing (grain test). Always precede a test with an examination, documented on the front of the form. If the examination and the test are not recorded on the same sheet, properly identify the test by filling in the Name of Elevator, etc., Items 1 through 11, 41 and 42 on the front as described in Chapter 4, Examinations.

1. Method of sampling-What was the standard? If a special location or procedure was used, explain in remarks.

2. Specify grain.

3. Remarks-Summary of important observations on the sampling system and testing information. Was the test run at normal load-out speed, air pressure, belt depth, etc.? Was dust collection turned on? Shipping bins checked?

4. Enter date sampled.

5. One factor is required, but additional factors may be tested. If necessary, the field office manager shall decide the appropriate factors. Test weight is not to be used as the only factor. Report percentages to 2 decimal places.

6. Mathematical average of the mechanical sampler results, average of the standard results, average of other results. Round percentages to 2 places.

7. Tolerance or allowable deviation =  $0.10 \times$  (standard average).

8. Mark the appropriate box for each factor tested. If more than one factor was tested, each of them must be within tolerance for a pass. A factor is considered within tolerance when the mean deviation from the standard is less than or equal to the allowable deviation for the applicable factor(s).

9. If 5 test lots are to be evaluated, continue entering sample data.

10. If testing a mechanical truck probe, continue entering sample data for 20 test lots.

11. Truck probe performance is evaluated against a standard and a hand probe, using either a regression or a T-test. Technical Service Division provides support for the analysis.