

	LURG
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InternationalMarket.java
ModelConfig.java
ModelMain.java
Timestep.java

COUNTRY
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AbstractCountryAgent.java  
AgriculturalGDPManager.java  
AnimalRateManager.java  
CompositeCountry.java  
CompositeCountryManager.java  
CountryAgent.java  
CountryAgentManager.java  
CountryBoundaryItem.java  
CountryBoundaryRaster.java  
CountryBoundaryReader.java  
CountryManager.java  
CountryPrice.java  
GlobalPrice.java  
SingleCountry.java  
StockReader.java  
SubsidyRateManager.java  
TradeConstraint.java  
TradeManager.java

<b>GAMS</b>
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GamsCommodityDemand.java  
GamsCountryInput.java  
GamsDemandInput.java  
GamsDemandOptimiser.java  
GamsDemandOutput.java  
GamsLocationInput.java  
GamsLocationOptimiser.java  
GamsLocationOutput.java  
GamsRasterInput.java  
GamsRasterOptimiser.java  
GamsRasterOutput.java

CRAFTY
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CraftyCountryAgent.java  
CraftyProdManager.java

DEMAND
--------

AbstractDemandManager.java  
AbstractSSPDemandManager.java  
BaseConsumpManager.java  
BioenergyDemandManager.java  
CalorieManager.java  
CerealFractionsManager.java  
DemandCurve.java  
DemandCurveManager.java  
DemandManagerFromFile.java  
DemandManagerSSP.java  
ElasticDemandManager.java  
PriceMarkUps.java  
SspData.java  
SspKey.java  
SspManager.java

## LAND USE

CropUsageData.java  
CropUsageReader.java  
Fpu.java  
FPUBoundaryReader.java  
FPUManager.java  
Intensity.java  
IrrigationConstraintReader.java  
IrrigationItem.java  
IrrigationMaxAmountReader.java  
IrrigationRasterSet.java  
IrrigationCostReader.java  
LandCoverItem.java  
LandCoverReader.java  
LandUseItem.java  
LandUseReader.java  
MaxCropAreaReader.java  
ProtectedAreasReader.java  
RunOffReader.java  
WaterBasin.java

SHOCKS
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ExportRestrictionManager.java  
PriceShockManager.java  
YieldShockItem.java  
YieldShockManager.java  
YieldShockReader.java

TYPES
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- CommodityType.java
- CropToDouble.java
- CropToDoubleMap.java
- CropType.java
- FertiliserRate.java
- IrrigationRate.java
- LandCoverType.java
- ModelFitType.java
- Parameter.java
- YieldType.java

## UTILS

CLUSTER
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- CentriodPoint.java
- Cluster.java
- ClusteringPoint.java
- KMeans.java
- KMeansTest.java

- CollectionHelper.java
- FileWriterHelper.java
- Interpolator.java
- LazyHashMap.java
- LazyTreeMap.java
- LogWriter.java
- StringTabularReader.java
- WatchDir.java
- WatchForFile.java

INPUT	OUTPUT
1	1
2	4
3	9
4	16
5	25
6	36
7	49
8	64
9	81
10	100

```
AbstractLandUseOutputer.java
LandUseOutputer.java
LpjgOutputer.java
```

YIELD	
1	100
2	100
3	100
4	100
5	100
6	100
7	100
8	100
9	100
10	100
11	100
12	100
13	100
14	100
15	100
16	100
17	100
18	100
19	100
20	100
21	100
22	100
23	100
24	100
25	100
26	100
27	100
28	100
29	100
30	100
31	100
32	100
33	100
34	100
35	100
36	100
37	100
38	100
39	100
40	100
41	100
42	100
43	100
44	100
45	100
46	100
47	100
48	100
49	100
50	100
51	100
52	100
53	100
54	100
55	100
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57	100
58	100
59	100
60	100
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62	100
63	100
64	100
65	100
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67	100
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69	100
70	100
71	100
72	100
73	100
74	100
75	100
76	100
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78	100
79	100
80	100
81	100
82	100
83	100
84	100
85	100
86	100
87	100
88	100
89	100
90	100
91	100
92	100
93	100
94	100
95	100
96	100
97	100
98	100
99	100
100	100

- LPJCropTypes.java
- LPJYieldResponseMapReader.java
- YieldClusterPoint.java
- YieldRaster.java
- YieldResponse.java
- YieldResponsesItem.java

## RASTER

- AbstractRasterReader.java
- AbstractTabularRasterReader.java
- IntegerRasterItem.java
- IntegerRasterReader.java
- InterpolatingRasterItem.java
- InterpolatingRasterSet.java
- RasterAreaCircle.java
- RasterHeaderDetails.java
- RasterItem.java
- RasterKey.java
- RasterOutputer.java
- RasterSet.java
- RasterSetTest.java

## LEGEND

Agent  
Manager  
Reader  
Data/Item  
Key

Helper  
Wirtner  
Test  
Set  
Abstract