# 青岛志涛农机专业合作社秸秆综合利用
## Integrated Straw Management of Qingdao Zhitao Agricultural Machinery Cooperative

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# 简 介 Introduction

- 志涛农机专业合作社位于青岛莱西市姜山镇东南，紧邻青岛即墨市、烟台莱阳市、三市交界。

  Zhitao Agricultural Machinery Specialized Cooperative is located in the southeast of Jiangshan Town, Laixi of Qingdao, close to Jimo, Yantai Laiyang and Sanshi

- 合作社成立于2011年4月27日，合作社成员100余人；拥有各类大中农业机械30余台套，辐射作业面积2000余亩；合作社核心基地1200余亩。

  The cooperative was established on April 27, 2011. It contain about more than 100 members, 30 sets of various large/medium agricultural machinery, 130 ha of the radiation operation area, and 80 ha of the cooperative core base.

- 拥有400头奶牛
  Owns 400 cows

- 新建600m³沼气池一座
  Established a new biogas digester, 600m³

# 小麦秸秆综合利用
## Integrated wheat straw management

- ## 饲料化利用
  Straw used as fertilizer

- 小麦秸秆离田
  Collecting wheat straw from the field;

- 每年300亩小麦秸秆离田，回收小麦秸秆60吨用于
  牧场饲喂奶牛；项目可节省资金4.8万元；
  Every year 20 ha of wheat straw is removed from the field,
  and  60 t of wheat straw is collected for feeding cows on
  the pasture; the project can save cost 48,000 yuan.

# 小麦秸秆综合利用
## Integrated wheat straw management

- # 肥料化利用
  Straw used as fertilizer

- 小麦收割后10-20cm根茎、秸秆；使用灭茬还田机还田；
  Using root residue chopper to return the 10-20cm wheat rhizome and straw after harvest to the field

- 部分天气、水份等原因未离田秸秆使用灭茬还田机还田；
  The straw which can't be used as fodder, will be return to the field by root residue chopper

- 灭茬后秸秆加快发腐烂速度、增加土壤有机质；
  The straw will be rotten in shorter time after chopped, and the content of soil organic matter will be increased

# 玉米秸秆综合利用
# Integrated maize straw management

- ## 饲料化利用
  Feed utilization

- ## 牧场需要1600亩全株玉米
  About 107 ha whole-crop corn demanded by the farm

# 玉米秸秆综合利用
## Integrated maize straw management

- ## 肥料化利用
  Straw used as fertilizer

- 玉米收割后30cm根茎、秸秆；使用灭茬还田机还田；
  Using root residue chopper to return the 30cm maize rhizome and straw after harvest to the field

- 灭茬还田后秸秆加快发腐烂速度、增加土壤有机质；
  The straw will be rotten in shorter time after chopped, and the content of soil organic matter will be increased

# 花生秸秆综合利用
## Integrated peanut straw management

- ## 饲料化利用
  Straw used as fodder

- 帮助合作社成员免费花生脱果；脱果后秸秆进行粉碎加工180余吨，供应牧场奶牛使用，每年节约粗饲料成本10.8万；Separation of the peanut and straw, then the peanut straw (about 180 t) chopped into tiny segment and fed by cows. Peanut straw used as fodder saves the annual cost about 108,000 yuan.

# 牛粪还田
## Cattle dung return to field

- 牧场每天可产生牛粪10吨
  The farm produces 10 tons of cow dung per day

- 堆肥发酵后，抛粪车施肥到核心基地，每亩地约使用5吨左右牛粪；每亩可减少化肥使用25kg；每亩可节约成本70元；产量增加10%，每亩地每年增加效益200元
  The cattle dung (about 75 t/ha) fertilized to the core base after composting and fermenting. Consequently, 375 kg/ha fertilizer and 1050 yuan/ha costs be saved, the yield increases by 10%, and the profits of 3000 yuan/ha be obtained annually

# 秸秆综合利用利润分析
## Profit analysis of integrated straw management

- 牧场配方成本核算 Cost accounting

| 秸秆利用核算<br>Straw utilization accounting | | | | 原料核算<br>Sufficient raw material accounting | | | |
|---|---|---|---|---|---|---|---|
| 原料<br>Raw material | 消耗量/kg<br>Consumption | 单价/¥<br>Unit-price | 合计/¥<br>Sum | 原料<br>Raw material | 消耗量/kg<br>Consumption | 单价/¥<br>Unit-price | 合计/¥<br>Sum |
| 小麦秸秆<br>Wheat straw | 1 | 0.4 | 0.4 | 羊草<br>Chinese leymus | 1 | 1.3 | 1.3 |
| 花生秸秆<br>Peanut straw | 1.5 | 0.3 | 0.45 | 燕麦<br>Oat | 1.5 | 1.9 | 2.85 |
| 苜蓿<br>Alfalfa | 3 | 3 | 9 | 苜蓿<br>Alfalfa | 3 | 3 | 9 |
| 1818 | 5 | 3.3 | 16.5 | 1818 | 5 | 3.3 | 16.5 |
| 压片玉米<br>Tablet corn | 4 | 2.2 | 8.8 | 压片玉米<br>Tablet corn | 4 | 2.2 | 8.8 |
| 全株<br>Whole plant | 20 | 0.5 | 10 | 全株<br>Whole plant | 20 | 0.5 | 10 |
| 小苏打<br>Baking soda | 0.15 | 2.2 | 0.33 | 小苏打<br>Baking soda | 0.15 | 2.2 | 0.33 |
| 合计<br>Sum | | | 45.48 | 合计<br>Sum | | | 48.78 |

# 秸秆综合利用利润分析
## Profit analysis of integrated straw management

- 秸秆综合利用，每天每头牛可节省3.3元；牧场每年可节约成本48万

  Integrated straw management saves the cost of 3.3 yuan/cow/day, and saves the farm about 480,000 yuan per year

## 发展规划
## Development plan

- 明年准备将灭茬机更换为新型秸秆还田混土机；
  The root residue chopper will be replaced by a new returning
  machine next year;

- 启动600m³沼气工程；
  600m³ biogas project will be started;

- 增加多功能沼液运输车
  Multi-functional biogas liquid transporter will be applied

# Thanks