

**VINEYARD-ORCHARD SPECIALIST TRACTOR  
BUYERS GUIDE AND COMPARISON TOOL**

**The process:** for each category:  
 \* **IDENTIFY** your key requirements  
 \* Get the related **SPECIFICATIONS** for each tractor relevant to your requirements  
 \* **RANK** the tractors (from ★ to ★★★) according to their best fit to your requirements

	Tractor 1	Tractor 2	Tractor 3
<b>Brand</b>	Landini		
<b>Model</b>			

**1 PTO Speed & Engine Performance**

How critical is **accurate PTO speed to achieve the spray performance** you need?  
 1-Not important 2-Moderately(+/-80rpm) 3-Important(+/-50rpm) 4-Critical(<+/-30rpm)

Will economy PTO mode offer an advantage for light duty PTO work?  
 Do you need 1000 rpm PTO speed?

What are your **ground conditions**?  
 1-Flat with little variation 2-Mild hills and slopes 3-Hilly conditions with steep areas

  
  


**Compare the tractors**

What engine rpm is 540 PTO speed?  
 What engine rpm is the peak torque?  
 What is the torque at 540 PTO?  
 What is the peak torque?  
 How much torque backup is available within the PTO rpm band you need? [<link to explain>](#)

Does the tractor have 540 Economy PTO mode?  
 Does the tractor have 1000 speed PTO mode?  
 Does the tractor have electronic engine rpm control?


***RANK** the tractors in order of the best fit to your needs for **PTO speed performance***

**2 Ground speeds**

How important is the **chemical coverage and penetration**?  
 1-Not important 2-Moderately 3-Important 4-Critical

How important is **chemical cost and wastage**?  
 1-Not important 2-Moderately 3-Important 4-Critical

What is your critical **spraying ground speed**? (km/h)  
 Second critical ground speed? (km/h)

  
  
  


**Compare the tractors**

How many speeds does the tractor have in the 3-10km/h working range? [<link to explain>](#)  
 Tractor ground speed in the best gear to match your critical ground speed? [<link to explain>](#)  
 And speed in the best gear to match your other critical ground speed?  
 Can you adjust the sprayer to accommodate the actual ground speeds?


***RANK** the tractors in order of the best fit to your **ground speed needs***

**3 Tractor Dimensions**

What is your **overall width** requirement?  
 If applicable, what is the **maximum height** requirement to suit your tree / trellis canopy?  
 How important is **soil compaction** to growth, water penetration and crop yield?  
 1-Not important 2-Moderately 3-Important 4-Critical

  
  


**Compare the tractors**

Does the tractor meet your dimension requirements?  
 What size rear wheel equipment does the tractor have to meet your width requirement?  
 RANK the degree of soil compaction you expect from the tyre sizes of each tractor.


***RANK** the tractors in order of the best fit to your **dimension requirements***

**4 Cabin for Spraying**

How important is the **cabin spraying performance** to your requirements?  
 1-Not important 2-Moderately 3-Important 4-Critical

**Compare the tractors**

Location of the cabin air filters? Side ... Front ... Rear [<link to explain>](#)  
 RANK the level of cabin sealing (1-3 stars)  
 Category-4 pressurised cabin?  
 Rear windscreen wiper?


***RANK** the tractors in order of the best fit to your **cabin requirements***

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**5 Hydraulics, Linkage & Electrical Services**

How many **rear hydraulic remotes** do you need? [ ]  
 What maximum **hydraulic flow** rate (Litres/minute) do you need? [ ]  
 How many **front hydraulic remotes** do you need? [ ]  
**Heaviest attachment** to be carried on the linkage? [ ]

**Compare the tractors**

Is the power steering pump independent of the pump for the hydraulic remotes? [ ]  
 What is the maximum hydraulic flow rate with engine at 540 PTO speed? [ ]  
 How many rear remotes? [ ]  
 How many front remotes? [ ]  
 Does it have flow rate control for a hydraulic motor? [ ]  
 Linkage lift capacity? [ ]  
 Does tractor have hydraulic or manual linkage levelling? [ ]  
 What is the maximum current (Amps) rating of the alternator? [ ]

***RANK** the tractors in order of the best fit to your **hydraulics and linkage** requirements*

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**6 Steering, Driveline and Braking**

What are your **ground conditions**? [ ]  
 1-Flat little variation 2-Mild hills and slopes 3-Hilly conditions with steep areas  
 Fully **loaded towed weight** of the spray cart? [ ]  
 Travel on **public roads**? [ ]  
 Headland width: What are your **turning circle** requirements? [ ]

**Compare the tractors**

Front differential lock or limited slip differential? [ ]  
 RANK the traction given the wheel equipment on the front and rear [ ]  
 Turning circle performance? [ ]  
 True 4 wheel braking with independent front brakes? Or engaging 4WD? [ ]

***RANK** the tractors in order of the best fit to your **driving** requirements*

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**7 Ergonomics**

How many **working hours per year** does the tractor accumulate? [ ]  
 Maximum **working hours per day** during peak spraying period? [ ]

**Compare the tractors**

Test drive and RANK the driver comfort and tractor stability? [ ]  
 Seat with pneumatic suspension? [ ]  
 Was steering adjustable to suit you (angle & height)? [ ]  
 Rear tyre size? Did this add to ride comfort? [ ]  
 Were all the controls (linkage, PTO, transmission) all within easy reach? [ ]

***RANK** the tractors in order of the best fit to your **ergonomic** requirements*

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**8 Costs and Benefits**

What is your tractor **budget**? [ ]  
 How many productive **years** do you want from the tractor? [ ]  
 Effect on chemical costs, productivity and yield (cumulative compaction) from the tractor (\$pa) [ ]

**Compare the tractors**

Purchase price? [ ]  
 Purchase finance cost per month? [ ]

***RANK** the tractors in order of the best fit to your **budget and cost / benefit***

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**OVERALL ASSESSMENT**

**Compare the tractors**

- **allocate points for each tractor depending on the importance of each ★ criteria to you**

1 Number of RANK Stars for **PTO Speed Performance** [ ]  
 2 Number of RANK Stars for **Ground Speeds** [ ]  
 3 Number of RANK Stars for **Dimensions** [ ]  
 4 Number of RANK Stars for **Cabin** [ ]  
 5 Number of RANK Stars for **Hydraulics and Linkage** [ ]  
 6 Number of RANK Stars for **Steering, Driveline and Braking** [ ]  
 7 Number of RANK Stars for **Ergonomics** [ ]  
 8 Number of RANK Stars for **Cost per month, benefits and affordability** [ ]

*Your OVERALL ASSESSMENT*

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