

## LIST OF FIGURES

CHAPTER NO.	FIGURE NO.	DESCRIPTION	AFTER PAGE
<b>III</b>	<b>1</b>	Effect of NaCl salinity on seed germination in Nira (spiny variety) of <i>Carthamus tinctorius</i> L.	<b>44</b>
	<b>2</b>	Effect of NaCl salinity on seed germination in Nari-6 (nonspiny variety) of <i>Carthamus tinctorius</i> L.	<b>44</b>
	<b>3</b>	Effect of NaCl salinity on seed germination in Nari-H-15 (spiny hybrid) of <i>Carthamus tinctorius</i> L.	<b>44</b>
	<b>4</b>	Effect of NaCl salinity on seed germination in Nari-NH-1 (nonspiny hybrid) of <i>Carthamus tinctorius</i> L.	<b>44</b>
	<b>5</b>	Effect of NaCl salinity on shoot length in cultivars of <i>Carthamus tinctorius</i> L.	<b>48</b>
	<b>6</b>	Effect of NaCl salinity on root length in cultivars of <i>Carthamus tinctorius</i> L.	<b>48</b>
	<b>7</b>	Effect of NaCl salinity on fresh weight in cultivars of <i>Carthamus tinctorius</i> L.	<b>48</b>
	<b>8</b>	Effect of NaCl salinity on dry weight in cultivars of <i>Carthamus tinctorius</i> L.	<b>48</b>
	<b>9</b>	Effect of NaCl salinity on moisture percentage in cultivars of <i>Carthamus tinctorius</i> L.	<b>48</b>
	<b>10</b>	Effect of NaCl salinity on vigour index in cultivars of <i>Carthamus tinctorius</i> L.	<b>48</b>
	<b>11</b>	Effect of NaCl salinity on total soluble sugars in cultivars of <i>Carthamus tinctorius</i> L.	<b>54</b>
	<b>12</b>	Effect of NaCl salinity on total carbohydrates in cultivars of <i>Carthamus tinctorius</i> L.	<b>54</b>
	<b>13</b>	Effect of NaCl salinity on soluble protein content in cultivars of <i>Carthamus tinctorius</i> L.	<b>58</b>

<b>III</b>	<b>14</b>	Effect of NaCl salinity on inorganic constituents in nonspiny hybrid Nari-NH-1 of <i>Carthamus tinctorius</i> L.	<b>62</b>
	<b>15</b>	Effect of NaCl salinity on activity of lipase enzyme in cultivars of <i>Carthamus tinctorius</i> L.	<b>68</b>
	<b>16</b>	Effect of NaCl salinity on activity of enzyme peroxidase in cultivars of <i>Carthamus tinctorius</i> L.	<b>68</b>
	<b>17</b>	Effect of NaCl salinity on activity of enzyme catalase in cultivars of <i>Carthamus tinctorius</i> L.	<b>68</b>
	<b>18</b>	Effect of water stress on plant height in cultivars of <i>Carthamus tinctorius</i> L.	<b>72</b>
	<b>19</b>	Effect of water stress on stomatal width in Nira (spiny variety) of <i>Carthamus tinctorius</i> L.	<b>76</b>
	<b>20</b>	Effect of water stress on stomatal width in Nari-6 (nonspiny variety) of <i>Carthamus tinctorius</i> L.	<b>76</b>
	<b>21</b>	Effect of water stress on stomatal width in Nari-H-15 (spiny hybrid) of <i>Carthamus tinctorius</i> L.	<b>76</b>
	<b>22</b>	Effect of water stress on stomatal width in Nari-NH-1 (nonspiny hybrid) of <i>Carthamus tinctorius</i> L.	<b>76</b>
	<b>23</b>	Effect of water stress on relative water content in the leaves of different cultivars of <i>Carthamus tinctorius</i> L.	<b>80</b>
	<b>24</b>	Effect of water stress on titratable acid number in the leaves of different cultivars of <i>Carthamus tinctorius</i> L.	<b>80</b>
	<b>25</b>	Effect of water stress on proline content in the leaves of different cultivars of <i>Carthamus tinctorius</i> L.	<b>80</b>
	<b>26</b>	Effect of water stress on total soluble sugars in cultivars of <i>Carthamus tinctorius</i> L.	<b>84</b>

<b>III</b>	<b>27</b>	Effect of water stress on total carbohydrates in cultivars of <i>Carthamus tinctorius</i> L.	<b>84</b>
	<b>28</b>	Effect of water stress on chlorophyll 'a' in cultivars of <i>Carthamus tinctorius</i> L.	<b>86</b>
	<b>29</b>	Effect of water stress on chlorophyll 'b' in cultivars of <i>Carthamus tinctorius</i> L.	<b>86</b>
	<b>30</b>	Effect of water stress on chlorophyll 'a/b' ratio in cultivars of <i>Carthamus tinctorius</i> L.	<b>86</b>
	<b>31</b>	Effect of water stress on total chlorophyll content in cultivars of <i>Carthamus tinctorius</i> L.	<b>86</b>
	<b>32</b>	Effect of water stress on inorganic constituents in the leaves of spiny variety Nira of <i>Carthamus tinctorius</i> L.	<b>90</b>
	<b>33</b>	Effect of water stress on activity of enzyme nitrate reductase in cultivars of <i>Carthamus tinctorius</i> L.	<b>96</b>